

PUBLICATIONS: SAURABH W. JHA  
*saurabh@physics.rutgers.edu*  
current as of June 29, 2022

**Journal Articles**

- 200 “Progenitor and close-in circumstellar medium of type II supernova 2020fqv from high-cadence photometry and ultra-rapid UV spectroscopy,” Tinyanont, S., R. Ridden-Harper, R. J. Foley, V. Morozova, C. D. Kilpatrick, G. Dimitriadis, L. DeMarchi, A. Gagliano, W. V. Jacobson-Galán, A. Messick, J. D. R. Pierel, A. L. Piro, E. Ramirez-Ruiz, M. R. Siebert, K. C. Chambers, K. E. Clever, D. A. Coulter, K. De, M. Hankins, T. Hung, **S. W. Jha**, C. E. Jimenez Angel, D. O. Jones, M. M. Kasliwal, C.-C. Lin, R. Marques-Chaves, R. Margutti, A. Moore, I. Pérez-Fournon, F. Poidevin, A. Rest, R. Shirley, C. S. Smith, E. Strasburger, J. J. Swift, R. J. Wainscoat, Q. Wang, and Y. Zenati, 2022, *MNRAS*, 512, 2777-2797  
<https://doi.org/10.1093/mnras/stab2887>  
<https://ui.adsabs.harvard.edu/abs/2022MNRAS.512.2777T>
- 199 “Nebular-phase spectra of Type Ia supernovae from the Las Cumbres Observatory Global Supernova Project,” Graham, M. L., T. D. Kennedy, S. Kumar, R. C. Amaro, D. J. Sand, **S. W. Jha**, L. Galbany, J. Vinko, J. C. Wheeler, E. Y. Hsiao, K. A. Bostroem, J. Burke, D. Hiramatsu, G. Hosseinzadeh, C. McCully, D. A. Howell, T. Diamond, P. Hoefflich, X. Wang, and W. Li, 2022, *MNRAS*, 511, 3682-3707  
<https://doi.org/10.1093/mnras/stac192>  
<https://ui.adsabs.harvard.edu/abs/2022MNRAS.511.3682G>
- 198 “The Impact of Observing Strategy on Cosmological Constraints with LSST,” Lochner, M., D. Scolnic, H. Almoubayyed, T. Anguita, H. Awan, E. Gawiser, S. G. A Gontcho, M. L. Graham, P. Gris, S. Huber, **S. W. Jha**, R. Lynne Jones, A. G. Kim, R. Mandelbaum, P. Marshall, T. Petrushevska, N. Regnault, C. N. Setzer, S. H. Suyu, P. Yoachim, R. Biswas, T. Blaineau, I. Hook, M. Moniez, E. Neilsen, H. Peiris, D. Rothchild, C. Stubbs, and LSST Dark Energy Science Collaboration, 2022, *ApJS*, 259, 58  
<https://doi.org/10.3847/1538-4365/ac5033>  
<https://ui.adsabs.harvard.edu/abs/2022ApJS..259...58L>
- 197 “The Rapid X-Ray and UV Evolution of ASASSN-14ko,” Payne, A. V., B. J. Shappee, J. T. Hinkle, T. W.-S. Holoién, K. Auchettl, C. S. Kochanek, K. Z. Stanek, T. A. Thompson, M. A. Tucker, J. D. Armstrong, P. T. Boyd, J. Brimacombe, R. Cornect, M. E. Huber, **S. W. Jha**, and C.-C. Lin, 2022, *ApJ*, 926, 142  
<https://doi.org/10.3847/1538-4357/ac480c>  
<https://ui.adsabs.harvard.edu/abs/2022ApJ...926..142P>

- 196 “Still Brighter than Pre-explosion, SN 2012Z Did Not Disappear: Comparing Hubble Space Telescope Observations a Decade Apart,” McCully, C., **S. W. Jha**, R. A. Scalzo, D. A. Howell, R. J. Foley, Y. Zeng, Z.-W. Liu, G. Hosseinzadeh, L. Bildsten, A. G. Riess, R. P. Kirshner, G. H. Marion, and Y. Camacho-Neves, 2022, *ApJ*, 925, 138  
<https://doi.org/10.3847/1538-4357/ac3bbd>  
<https://ui.adsabs.harvard.edu/abs/2022ApJ...925..138M>
- 195 “The Foundation Supernova Survey: Photospheric Velocity Correlations in Type Ia Supernovae,” Dettman, K. G., **S. W. Jha**, M. Dai, R. J. Foley, A. Rest, D. M. Scolnic, M. R. Siebert, K. C. Chambers, D. A. Coulter, M. E. Huber, E. Johnson, D. O. Jones, C. D. Kilpatrick, R. P. Kirshner, Y.-C. Pan, A. G. Riess, and A. S. B. Shultz, 2021, *ApJ*, 923, 267  
<https://doi.org/10.3847/1538-4357/ac2ee5>  
<https://ui.adsabs.harvard.edu/abs/2021ApJ...923..267D>
- 194 “SALT3: An Improved Type Ia Supernova Model for Measuring Cosmic Distances,” Kenworthy, W. D., D. O. Jones, M. Dai, R. Kessler, D. Scolnic, D. Brout, M. R. Siebert, J. D. R. Pierel, K. G. Dettman, G. Dimitriadis, R. J. Foley, **S. W. Jha**, Y.-C. Pan, A. Riess, S. Rodney, and C. Rojas-Bravo, 2021, *ApJ*, 923, 265  
<https://doi.org/10.3847/1538-4357/ac30d8>  
<https://ui.adsabs.harvard.edu/abs/2021ApJ...923..265K>
- 193 “SN 2018agk: A Prototypical Type Ia Supernova with a Smooth Power-law Rise in Kepler (K2),” Wang, Q., A. Rest, Y. Zenati, R. Ridden-Harper, G. Dimitriadis, G. Narayan, V. A. Villar, M. R. Magee, R. J. Foley, E. J. Shaya, P. Garnavich, L. Wang, L. Hu, A. Bódi, P. Armstrong, K. Auchettl, T. Barclay, G. Barentsen, Z. Bognár, J. Brimacombe, J. Bulger, J. Burke, P. Challis, K. Chambers, D. A. Coulter, G. Csörnyei, B. Cseh, M. Deckers, J. L. Dotson, L. Galbany, S. González-Gaitán, M. Gromadzki, M. Gully-Santiago, O. Hanyecz, C. Hedges, D. Hiramatsu, G. Hosseinzadeh, D. A. Howell, S. B. Howell, M. E. Huber, **S. W. Jha**, D. O. Jones, R. Könyves-Tóth, C. Kalup, C. D. Kilpatrick, L. Kriskovics, W. Li, T. B. Lowe, S. Margheim, C. McCully, A. Mitra, J. A. Muñoz, M. Nicholl, J. Nordin, A. Pál, Y.-C. Pan, A. L. Piro, S. Rest, J. Rino-Silvestre, C. Rojas-Bravo, K. Sárneczky, M. R. Siebert, S. J. Smartt, K. Smith, Á. Sódor, M. D. Stritzinger, R. Szabó, R. Szakáts, B. E. Tucker, J. Vinkó, X. Wang, J. C. Wheeler, D. R. Young, A. Zenteno, K. Zhang, and G. Zsidi, 2021, *ApJ*, 923, 167  
<https://doi.org/10.3847/1538-4357/ac2c84>  
<https://ui.adsabs.harvard.edu/abs/2021ApJ...923..167W>
- 192 “SN2017jgh: a high-cadence complete shock cooling light curve of a SN Iib with the Kepler telescope,” Armstrong, P., B. E. Tucker, A. Rest, R. Ridden-Harper, Y. Zenati, A. L. Piro, S. Hinton, C. Lidman, S. Margheim, G. Narayan, E. Shaya, P. Garnavich, D. Kasen, V. Villar, A. Zenteno, I. Arcavi, M. Drout, R. J. Foley, J. Wheeler, J. Anais, A. Campillay, D. Coulter, G. Dimitriadis, D. Jones, C. D. Kilpatrick, N. Muñoz-Elgueta, C. Rojas-Bravo, J. Vargas-González, J. Bulger, K. Chambers, M. Huber, T. Lowe, E. Magnier, B. J. Shappee, S. Smartt, K. W. Smith, T. Barclay, G. Barentsen, J. Dotson, M. Gully-Santiago, C. Hedges, S. Howell, A. Cody, K. Auchettl, A. Bódi, Z. Bognár, J. Brimacombe, P. Brown, B. Cseh, L. Galbany,

D. Hiramatsu, T. W.-S. Holoién, D. A. Howell, **S. W. Jha**, R. Könyves-Tóth, L. Kriskovics, C. McCully, P. Milne, J. Muñoz, Y. Pan, A. Pál, H. Sai, K. Sárneczky, N. Smith, Á. Sódor, R. Szabó, R. Szakáts, S. Valenti, J. Vinkó, X. Wang, K. Zhang, and G. Zsidi, 2021, *MNRAS*, 507, 3125-3138

<https://doi.org/10.1093/mnras/stab2138>

<https://ui.adsabs.harvard.edu/abs/2021MNRAS.507.3125A>

- 191 “AT 2019qyl in NGC 300: Internal Collisions in the Early Outflow from a Very Fast Nova in a Symbiotic Binary,” Jencson, J. E., J. E. Andrews, H. E. Bond, V. Karambelkar, D. J. Sand, S. D. van Dyk, N. Blagorodnova, M. L. Boyer, M. M. Kasliwal, R. M. Lau, S. Mohamed, R. Williams, P. A. Whitelock, R. C. Amaro, K. A. Bostroem, Y. Dong, M. J. Lundquist, S. Valenti, S. D. Wyatt, J. Burke, K. De, **S. W. Jha**, J. Johansson, C. Rojas-Bravo, D. A. Coulter, R. J. Foley, R. D. Gehrz, J. Haislip, D. Hiramatsu, D. A. Howell, C. D. Kilpatrick, F. J. Masci, C. McCully, C.-C. Ngeow, Y.-C. Pan, C. Pellegrino, A. L. Piro, V. Kouprianov, D. E. Reichart, A. Rest, S. Rest, and N. Smith, 2021, *ApJ*, 920, 127

<https://doi.org/10.3847/1538-4357/ac1424>

<https://ui.adsabs.harvard.edu/abs/2021ApJ...920..127J>

- 190 “The LSST DESC DC2 Simulated Sky Survey,” LSST Dark Energy Science Collaboration (LSST DESC), B. Abolfathi, D. Alonso, R. Armstrong, É. Aubourg, H. Awan, Y. N. Babuji, F. E. Bauer, R. Bean, G. Beckett, R. Biswas, J. R. Bogart, D. Boutigny, K. Chard, J. Chiang, C. F. Claver, J. Cohen-Tanugi, C. Combet, A. J. Connolly, S. F. Daniel, S. W. Digel, A. Drlica-Wagner, R. Dubois, E. Gangler, E. Gawiser, T. Glanzman, P. Gris, S. Habib, A. P. Hearin, K. Heitmann, F. Hernandez, R. Hložek, J. Hollowed, M. Ishak, Ž. Ivezić, M. Jarvis, **S. W. Jha**, S. M. Kahn, J. B. Kalmbach, H. M. Kelly, E. Kovacs, D. Korytov, K. S. Krughoff, C. S. Lage, F. Lanusse, P. Larsen, L. Le Guillou, N. Li, E. P. Longley, R. H. Lupton, R. Mandelbaum, Y.-Y. Mao, P. Marshall, J. E. Meyers, M. Moniez, C. B. Morrison, A. Nomerotski, P. O’Connor, H. Park, J. W. Park, J. Peloton, D. Perrefort, J. Perry, S. Plaszczynski, A. Pope, A. Rasmussen, K. Reil, A. J. Roodman, E. S. Rykoff, F. J. Sánchez, S. J. Schmidt, D. Scolnic, C. W. Stubbs, J. A. Tyson, T. D. Uram, A. Villarreal, C. W. Walter, M. P. Wiesner, W. M. Wood-Vasey, and J. Zuntz, 2021, *ApJS*, 253, 31

<https://doi.org/10.3847/1538-4365/abd62c>

<https://ui.adsabs.harvard.edu/abs/2021ApJS..253...31L>

- 189 “SN 2019muj - a well-observed Type Ia supernova that bridges the luminosity gap of the class,” Barna, B., T. Szalai, **S. W. Jha**, Y. Camacho-Neves, L. Kwok, R. J. Foley, C. D. Kilpatrick, D. A. Coulter, G. Dimitriadis, A. Rest, C. Rojas-Bravo, M. R. Siebert, P. J. Brown, J. Burke, E. Padilla Gonzalez, D. Hiramatsu, D. A. Howell, C. McCully, C. Pellegrino, M. Dobson, S. J. Smartt, J. J. Swift, H. Stacey, M. Rahman, D. J. Sand, J. Andrews, S. Wyatt, E. Y. Hsiao, J. P. Anderson, T.-W. Chen, M. Della Valle, L. Galbany, M. Gromadzki, C. Inserra, J. Lyman, M. Magee, K. Maguire, T. E. Müller-Bravo, M. Nicholl, S. Srivastav, and S. C. Williams, 2021, *MNRAS*, 501, 1078-1099

<https://doi.org/10.1093/mnras/staa3543>

<https://ui.adsabs.harvard.edu/abs/2021MNRAS.501.1078B>

- 188 “PS15cey and PS17cke: prospective candidates from the Pan-STARRS Search for kilonovae,” McBrien, O. R., S. J. Smartt, M. E. Huber, A. Rest, K. C. Chambers, C. Barbieri, M. Bulla, **S. Jha**, M. Gromadzki, S. Srivastav, K. W. Smith, D. R. Young, S. McLaughlin, C. Inserra, M. Nicholl, M. Fraser, K. Maguire, T.-W. Chen, T. Wevers, J. P. Anderson, T. E. Müller-Bravo, F. Olivares E., E. Kankare, A. Gal-Yam, and C. Waters, 2021, MNRAS, 500, 4213-4228  
<https://doi.org/10.1093/mnras/staa3361>  
<https://ui.adsabs.harvard.edu/abs/2021MNRAS.500.4213M>
- 187 “The Early Discovery of SN 2017ahn: Signatures of Persistent Interaction in a Fast-declining Type II Supernova,” Tartaglia, L., D. J. Sand, J. H. Groh, S. Valenti, S. D. Wyatt, K. A. Bostroem, P. J. Brown, S. Yang, J. Burke, T.-W. Chen, S. Davis, F. Förster, L. Galbany, J. Haislip, D. Hiramatsu, G. Hosseinzadeh, D. A. Howell, E. Y. Hsiao, **S. W. Jha**, V. Kouprianov, H. Kuncarayakti, J. D. Lyman, C. McCully, M. M. Phillips, A. Rau, D. E. Reichart, M. Shahbandeh, and J. Strader, 2021, ApJ, 907, 52  
<https://doi.org/10.3847/1538-4357/abca8a>  
<https://ui.adsabs.harvard.edu/abs/2021ApJ...907...52T>
- 186 “Supernova 2018cuf: A Type IIP Supernova with a Slow Fall from Plateau,” Dong, Y., S. Valenti, K. A. Bostroem, D. J. Sand, J. E. Andrews, L. Galbany, **S. W. Jha**, Y. Eweis, L. Kwok, E. Y. Hsiao, S. Davis, P. J. Brown, H. Kuncarayakti, K. Maeda, J. Rho, R. C. Amaro, J. P. Anderson, I. Arcavi, J. Burke, R. Dastidar, G. Folatelli, J. Haislip, D. Hiramatsu, G. Hosseinzadeh, D. A. Howell, J. Jencson, V. Kouprianov, M. Lundquist, J. D. Lyman, C. McCully, K. Misra, D. E. Reichart, S. F. Sánchez, N. Smith, X. Wang, L. Wang, and S. Wyatt, 2021, ApJ, 906, 56  
<https://doi.org/10.3847/1538-4357/abc417>  
<https://ui.adsabs.harvard.edu/abs/2021ApJ...906...56D>
- 185 “The Young and Nearby Normal Type Ia Supernova 2018gv: UV-optical Observations and the Earliest Spectropolarimetry,” Yang, Y., P. Hoefflich, D. Baade, J. R. Maund, L. Wang, P. J. Brown, H. F. Stevance, I. Arcavi, J. Burke, A. Cikota, A. Clocchiatti, A. Gal-Yam, M. L. Graham, D. Hiramatsu, G. Hosseinzadeh, D. A. Howell, **S. W. Jha**, C. McCully, F. Patat, D. J. Sand, S. Schulze, J. Spyromilio, S. Valenti, J. Vinkó, X. Wang, J. C. Wheeler, O. Yaron, and J. Zhang, 2020, ApJ, 902, 46  
<https://doi.org/10.3847/1538-4357/aba759>  
<https://ui.adsabs.harvard.edu/abs/2020ApJ...902...46Y>
- 184 “Ca hnk: The Calcium-rich Transient Supernova 2016hnk from a Helium Shell Detonation of a Sub-Chandrasekhar White Dwarf,” Jacobson-Galán, W. V., A. Polin, R. J. Foley, G. Dimitriadis, C. D. Kilpatrick, R. Margutti, D. A. Coulter, **S. W. Jha**, D. O. Jones, R. P. Kirshner, Y.-C. Pan, A. L. Piro, A. Rest, and C. Rojas-Bravo, 2020, ApJ, 896, 165  
<https://doi.org/10.3847/1538-4357/ab94b8>  
<https://ui.adsabs.harvard.edu/abs/2020ApJ...896..165J>

- 183 “Discovery and Rapid Follow-up Observations of the Unusual Type II SN 2018ivc in NGC 1068,” Bostroem, K. A., S. Valenti, D. J. Sand, J. E. Andrews, S. D. Van Dyk, L. Galbany, D. Pooley, R. C. Amaro, N. Smith, S. Yang, G. C. Anupama, I. Arcavi, E. Baron, P. J. Brown, J. Burke, R. Cartier, D. Hiramatsu, R. Dastidar, J. M. DerKacy, Y. Dong, E. Egami, S. Ertel, A. V. Filippenko, O. D. Fox, J. Haislip, G. Hosseinzadeh, D. A. Howell, A. Gangopadhyay, **S. W. Jha**, V. Kouprianov, B. Kumar, M. Lundquist, D. Milisavljevic, C. McCully, P. Milne, K. Misra, D. E. Reichart, D. K. Sahu, H. Sai, A. Singh, P. S. Smith, J. Vinko, X. Wang, Y. Wang, J. C. Wheeler, G. G. Williams, S. Wyatt, J. Zhang, and X. Zhang, 2020, *ApJ*, 895, 31  
<https://doi.org/10.3847/1538-4357/ab8945>  
<https://ui.adsabs.harvard.edu/abs/2020ApJ...895...31B>
- 182 “The BUFFALO HST Survey,” Steinhardt, C. L., M. Jauzac, A. Acebron, H. Atek, P. Capak, I. Davidzon, D. Eckert, D. Harvey, A. M. Koekemoer, C. D. P. Lagos, G. Mahler, M. Montes, A. Niemiec, M. Nonino, P. A. Oesch, J. Richard, S. A. Rodney, M. Schaller, K. Sharon, L.-G. Strolger, J. Allingham, A. Amara, Y. Bahé, C. Böhm, S. Bose, R. J. Bouwens, L. D. Bradley, G. Brammer, T. Broadhurst, R. Cañas, R. Cen, B. Clément, D. Clowe, D. Coe, T. Connor, B. Darvish, J. M. Diego, H. Ebeling, A. C. Edge, E. Egami, S. Etori, A. L. Faisst, B. Frye, L. J. Furtak, C. Gómez-Guijarro, J. D. Remolina González, A. Gonzalez, O. Graur, D. Gruen, D. Harvey, H. Hensley, B. Hovis-Afflerbach, P. Jablonka, **S. W. Jha**, E. Jullo, J.-P. Kneib, V. Kokorev, D. J. Lagattuta, M. Limousin, A. von der Linden, N. B. Linzer, A. Lopez, G. E. Magdis, R. Massey, D. C. Masters, M. Maturi, C. McCully, S. L. McGee, M. Meneghetti, B. Mobasher, L. A. Moustakas, E. J. Murphy, P. Natarajan, M. Neyrinck, K. O’Connor, M. Oguri, A. Pagul, J. Rhodes, R. M. Rich, A. Robertson, M. Sereno, H. Shan, G. P. Smith, A. Sneppen, G. K. Squires, S.-I. Tam, C. Tchernin, S. Toft, K. Umetsu, J. R. Weaver, R. J. van Weeren, L. L. R. Williams, T. J. Wilson, L. Yan, and A. Zitrin, 2020, *ApJS*, 247, 64  
<https://doi.org/10.3847/1538-4365/ab75ed>  
<https://ui.adsabs.harvard.edu/abs/2020ApJS..247...64S>
- 181 “Constraining Type Iax supernova progenitor systems with stellar population age dating,” Takaro, T., R. J. Foley, C. McCully, W.-F. Fong, **S. W. Jha**, G. Narayan, A. Rest, M. Stritzinger, and K. McKinnon, 2020, *MNRAS*, 493, 986-1002  
<https://doi.org/10.1093/mnras/staa294>  
<https://ui.adsabs.harvard.edu/abs/2020MNRAS.493..986T>
- 180 “Unconventional origin of supersoft X-ray emission from a white dwarf binary,” Maccarone, T. J., T. J. Nelson, P. J. Brown, K. Mukai, P. A. Charles, A. Rajoelimanana, D. A. H. Buckley, J. Strader, L. Chomiuk, C. T. Britt, S. W. Jha, P. Mróz, A. Udalski, M. K. Szymański, I. Soszyński, R. Poleski, S. Kozłowski, P. Pietrukowicz, J. Skowron, and K. Ulaczyk, 2019, *NatAs*, 3, 173-177  
<https://doi.org/10.1038/s41550-018-0639-1>  
<https://ui.adsabs.harvard.edu/abs/2019NatAs...3..173M>
- 179 “GROWTH on S190425z: Searching Thousands of Square Degrees to Identify an Optical or Infrared Counterpart to a Binary Neutron Star Merger with the Zwicky Transient Facility and

Palomar Gattini-IR,” Coughlin, M. W., T. Ahumada, S. Anand, K. De, M. J. Hankins, M. M. Kasliwal, L. P. Singer, E. C. Bellm, I. Andreoni, S. B. Cenko, J. Cooke, C. M. Copperwheat, A. M. Dugas, J. E. Jencson, D. A. Perley, P.-C. Yu, V. Bhalerao, H. Kumar, J. S. Bloom, G. C. Anupama, M. C. B. Ashley, A. Bagdasaryan, R. Biswas, D. A. H. Buckley, K. B. Burdge, D. O. Cook, J. Cromer, V. Cunningham, A. D’Aì, R. G. Dekany, A. Delacroix, S. Dichiara, D. A. Duev, A. Dutta, M. Feeney, S. Frederick, P. Gatkine, S. Ghosh, D. A. Goldstein, V. Z. Golkhou, A. Goobar, M. J. Graham, H. Hanayama, T. Horiuchi, T. Hung, **S. W. Jha**, A. K. H. Kong, M. Giomi, D. L. Kaplan, V. R. Karambelkar, M. Kowalski, S. R. Kulkarni, T. Kupfer, F. J. Masci, P. Mazzali, A. M. Moore, M. Mogotsi, J. D. Neill, C.-C. Ngeow, J. Martínez-Palomera, V. La Parola, M. Pavana, E. O. Ofek, A. S. Patil, R. Riddle, M. Rigault, B. Rusholme, E. Serabyn, D. L. Shupe, Y. Sharma, A. Singh, J. Sollerman, J. Soon, K. Staats, K. Taggart, H. Tan, T. Travouillon, E. Troja, G. Waratkar, and Y. Yatsu, 2019, *ApJL*, 885, L19  
<https://doi.org/10.3847/2041-8213/ab4ad8>  
<https://ui.adsabs.harvard.edu/abs/2019ApJ...885L..19C>

178 “The Photometric LSST Astronomical Time-series Classification Challenge PLAsTiCC: Selection of a Performance Metric for Classification Probabilities Balancing Diverse Science Goals,” Malz, A. I., R. Hložek, T. Allam, A. Bahmanyar, R. Biswas, M. Dai, L. Galbany, E. E. O. Ishida, **S. W. Jha**, D. O. Jones, R. Kessler, M. Lochner, A. A. Mahabal, K. S. Mandel, J. R. Martínez-Galarza, J. D. McEwen, D. Muthukrishna, G. Narayan, H. Peiris, C. M. Peters, K. Ponder, C. N. Setzer, (the LSST Dark Energy Science Collaboration, . the . LSST Transients, and Variable Stars Science Collaboration, 2019, *AJ*, 158, 171  
<https://doi.org/10.3847/1538-3881/ab3a2f>  
<https://ui.adsabs.harvard.edu/abs/2019AJ....158..171M>

177 “RELICS: Reionization Lensing Cluster Survey,” Coe, D., B. Salmon, M. Bradač, L. D. Bradley, K. Sharon, A. Zitrin, A. Acebron, C. Cerny, N. Cibirka, V. Strait, R. Paterno-Mahler, G. Mahler, R. J. Avila, S. Ogaz, K.-H. Huang, D. Pelliccia, D. P. Stark, R. Mainali, P. A. Oesch, M. Trenti, D. Carrasco, W. A. Dawson, S. A. Rodney, L.-G. Strolger, A. G. Riess, C. Jones, B. L. Frye, N. G. Czakon, K. Umetsu, B. Vulcani, O. Graur, **S. W. Jha**, M. L. Graham, A. Molino, M. Nonino, J. Hjorth, J. Selsing, L. Christensen, S. Kikuchihara, M. Ouchi, M. Oguri, B. Welch, B. C. Lemaux, F. Andrade-Santos, A. T. Hoag, T. L. Johnson, A. Peterson, M. Past, C. Fox, I. Agulli, R. Livermore, R. E. Ryan, D. Lam, I. Sendra-Server, S. Toft, L. Lovisari, and Y. Su, 2019, *ApJ*, 884, 85  
<https://doi.org/10.3847/1538-4357/ab412b>  
<https://ui.adsabs.harvard.edu/abs/2019ApJ...884...85C>

176 “Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hnk,” Galbany, L., C. Ashall, P. Höflich, S. González-Gaitán, S. Taubenberger, M. Stritzinger, E. Y. Hsiao, P. Mazzali, E. Baron, S. Blondin, S. Bose, M. Bulla, J. F. Burke, C. R. Burns, R. Cartier, P. Chen, M. Della Valle, T. R. Diamond, C. P. Gutiérrez, J. Harmanen, D. Hiramatsu, T. W.-S. Holoién, G. Hosseinzadeh, D. A. Howell, Y. Huang, C. Inserra, T. de Jaeger, **S. W. Jha**, T. Kangas, M. Kromer, J. D. Lyman, K. Maguire, G. H. Marion, D. Mil-

isavljevic, S. J. Prentice, A. Razza, T. M. Reynolds, D. J. Sand, B. J. Shappee, R. Shekhar, S. J. Smartt, K. G. Stassun, M. Sullivan, S. Valenti, S. Villanueva, X. Wang, J. C. Wheeler, Q. Zhai, and J. Zhang, 2019, *A&A*, 630, A76

<https://doi.org/10.1051/0004-6361/201935537>

<https://ui.adsabs.harvard.edu/abs/2019A&A...630A..76G>

- 175 “Models and Simulations for the Photometric LSST Astronomical Time Series Classification Challenge (PLAsTiCC),” Kessler, R., G. Narayan, A. Avelino, E. Bachelet, R. Biswas, P. J. Brown, D. F. Chernoff, A. J. Connolly, M. Dai, S. Daniel, R. Di Stefano, M. R. Drout, L. Galbany, S. González-Gaitán, M. L. Graham, R. Hložek, E. E. O. Ishida, J. Guillochon, **S. W. Jha**, D. O. Jones, K. S. Mandel, D. Muthukrishna, A. O’Grady, C. M. Peters, J. R. Pierel, K. A. Ponder, A. Prša, S. Rodney, V. A. Villar, LSST Dark Energy Science Collaboration, and Transient and Variable Stars Science Collaboration, 2019, *PASP*, 131, 094501

<https://doi.org/10.1088/1538-3873/ab26f1>

<https://ui.adsabs.harvard.edu/abs/2019PASP...131i4501K>

- 174 “Observational properties of thermonuclear supernovae,” **Jha, S. W.**, K. Maguire, and M. Sullivan, 2019, *NatAs*, 3, 706-716

<https://doi.org/10.1038/s41550-019-0858-0>

<https://ui.adsabs.harvard.edu/abs/2019NatAs...3..706J>

- 173 “Detection of circumstellar helium in Type Ia progenitor systems,” Jacobson-Galán, W. V., R. J. Foley, J. Schwab, G. Dimitriadis, S. Dong, **S. W. Jha**, D. Kasen, C. D. Kilpatrick, and R. Thomas, 2019, *MNRAS*, 487, 2538-2577

<https://doi.org/10.1093/mnras/stz1305>

<https://ui.adsabs.harvard.edu/abs/2019MNRAS.487.2538J>

- 172 “ASASSN-18tb: a most unusual Type Ia supernova observed by TESS and SALT,” Valley, P. J., M. Fausnaugh, **S. W. Jha**, M. A. Tucker, Y. Eweis, B. J. Shappee, C. S. Kochanek, K. Z. Stanek, P. Chen, S. Dong, J. L. Prieto, T. Sukhbold, T. A. Thompson, J. Brimacombe, M. D. Stritzinger, T. W.-S. Holoién, D. A. H. Buckley, M. Gromadzki, and S. Bose, 2019, *MNRAS*, 487, 2372-2384

<https://doi.org/10.1093/mnras/stz1445>

<https://ui.adsabs.harvard.edu/abs/2019MNRAS.487.2372V>

- 171 “The Foundation Supernova Survey: Measuring Cosmological Parameters with Supernovae from a Single Telescope,” Jones, D. O., D. M. Scolnic, R. J. Foley, A. Rest, R. Kessler, P. M. Challis, K. C. Chambers, D. A. Coulter, K. G. Dettman, M. M. Foley, M. E. Huber, **S. W. Jha**, E. Johnson, C. D. Kilpatrick, R. P. Kirshner, J. Manuel, G. Narayan, Y.-C. Pan, A. G. Riess, A. S. B. Schultz, M. R. Siebert, E. Berger, R. Chornock, H. Flewelling, E. A. Magnier, S. J. Smartt, K. W. Smith, R. J. Wainscoat, C. Waters, and M. Willman, 2019, *ApJ*, 881, 19

<https://doi.org/10.3847/1538-4357/ab2bec>

<https://ui.adsabs.harvard.edu/abs/2019ApJ...881...19J>

- 170 “Red and Reddened: Ultraviolet through Near-infrared Observations of Type Ia Supernova 2017erp,” Brown, P. J., G. Hosseinzadeh, **S. W. Jha**, D. Sand, E. Vieira, X. Wang, M. Dai, K. G. Dettman, J. Mould, S. Uddin, L. Wang, I. Arcavi, J. Bento, C. R. Burns, T. Diamond, D. Hiramatsu, D. A. Howell, E. Y. Hsiao, G. H. Marion, C. McCully, P. A. Milne, D. Mirzaqulov, A. J. Ruiter, S. Valenti, and D. Xiang, 2019, *ApJ*, 877, 152  
<https://doi.org/10.3847/1538-4357/ab1a3f>  
<https://ui.adsabs.harvard.edu/abs/2019ApJ...877..152B>
- 169 “Nebular  $H\alpha$  Limits for Fast Declining SNe Ia,” Sand, D. J., R. C. Amaro, M. Moe, M. L. Graham, J. E. Andrews, J. Burke, R. Cartier, Y. Eweis, L. Galbany, D. Hiramatsu, D. A. Howell, **S. W. Jha**, M. Lundquist, T. Matheson, C. McCully, P. Milne, N. Smith, S. Valenti, and S. Wyatt, 2019, *ApJL*, 877, L4  
<https://doi.org/10.3847/2041-8213/ab1eaf>  
<https://ui.adsabs.harvard.edu/abs/2019ApJ...877L...4S>
- 168 “K2 Observations of SN 2018oh Reveal a Two-component Rising Light Curve for a Type Ia Supernova,” Dimitriadis, G., R. J. Foley, A. Rest, D. Kasen, A. L. Piro, A. Polin, D. O. Jones, A. Villar, G. Narayan, D. A. Coulter, C. D. Kilpatrick, Y.-C. Pan, C. Rojas-Bravo, O. D. Fox, **S. W. Jha**, P. E. Nugent, A. G. Riess, D. Scolnic, M. R. Drout, G. Barentsen, J. Dotson, M. Gully-Santiago, C. Hedges, A. M. Cody, T. Barclay, S. Howell, P. Garnavich, B. E. Tucker, E. Shaya, R. Mushotzky, R. P. Olling, S. Margheim, A. Zenteno, J. Coughlin, J. E. Van Cleve, J. V. d. M. Cardoso, K. A. Larson, K. M. McCalmont-Everton, C. A. Peterson, S. E. Ross, L. H. Reedy, D. Osborne, C. McGinn, L. Kohnert, L. Migliorini, A. Wheaton, B. Spencer, C. Labonde, G. Castillo, G. Beerman, K. Steward, M. Hanley, R. Larsen, R. Gangopadhyay, R. Kloetzel, T. Weschler, V. Nystrom, J. Moffatt, M. Redick, K. Griest, M. Packard, M. Muszynski, J. Kampmeier, R. Bjella, S. Flynn, B. Elsaesser, K. C. Chambers, H. A. Flewelling, M. E. Huber, E. A. Magnier, C. Z. Waters, A. S. B. Schultz, J. Bulger, T. B. Lowe, M. Willman, S. J. Smartt, K. W. Smith, S. Points, G. M. Strampelli, J. Brimacombe, P. Chen, J. A. Muñoz, R. L. Mutel, J. Shields, P. J. Vallely, S. Villanueva Jr., W. Li, X. Wang, J. Zhang, H. Lin, J. Mo, X. Zhao, H. Sai, X. Zhang, K. Zhang, T. Zhang, L. Wang, J. Zhang, E. Baron, J. M. DerKacy, L. Li, Z. Chen, D. Xiang, L. Rui, L. Wang, F. Huang, X. Li, G. Hosseinzadeh, D. A. Howell, I. Arcavi, D. Hiramatsu, J. Burke, S. Valenti, J. L. Tonry, L. Denneau, A. N. Heinze, H. Weiland, B. Stalder, J. Vinkó, K. Sárneczky, A. Pál, A. Bódi, Z. Bognár, B. Csák, B. Cseh, G. Csörnyei, O. Hanyecz, B. Ignácz, C. Kalup, R. Könyves-Tóth, L. Kriskovics, A. Ordasi, I. Rajmon, A. Sódor, R. Szabó, R. Szakáts, G. Zsidi, S. C. Williams, J. Nordin, R. Cartier, C. Frohmaier, L. Galbany, C. P. Gutiérrez, I. Hook, C. Inserra, M. Smith, D. J. Sand, J. E. Andrews, N. Smith, and C. Bilinski, 2019, *ApJ*, 870, L1  
<https://doi.org/10.3847/2041-8213/aaedb0>  
<http://adsabs.harvard.edu/abs/2019ApJ...870L...1D>
- 167 “Photometric and Spectroscopic Properties of Type Ia Supernova 2018oh with Early Excess Emission from the Kepler 2 Observations,” Li, W., X. Wang, J. Vinkó, J. Mo, G. Hosseinzadeh, D. J. Sand, J. Zhang, H. Lin, T. Zhang, L. Wang, J. Zhang, Z. Chen, D. Xiang, L. Rui,



F. Huang, X. Li, X. Zhang, L. Li, E. Baron, J. M. Derkacy, X. Zhao, H. Sai, K. Zhang, L. Wang, D. A. Howell, C. McCully, I. Arcavi, S. Valenti, D. Hiramatsu, J. Burke, A. Rest, P. Garnavich, B. E. Tucker, G. Narayan, E. Shaya, S. Margheim, A. Zenteno, A. Villar, G. Dimitriadis, R. J. Foley, Y.-C. Pan, D. A. Coulter, O. D. Fox, **S. W. Jha**, D. O. Jones, D. N. Kasen, C. D. Kilpatrick, A. L. Piro, A. G. Riess, C. Rojas-Bravo, B. J. Shappee, T. W.-S. Holoién, K. Z. Stanek, M. R. Drout, K. Auchettl, C. S. Kochanek, J. S. Brown, S. Bose, D. Bersier, J. Brimacombe, P. Chen, S. Dong, S. Holmbo, J. A. Muñoz, R. L. Mutel, R. S. Post, J. L. Prieto, J. Shields, D. Tallon, T. A. Thompson, P. J. Vallely, S. Villanueva Jr., S. J. Smartt, K. W. Smith, K. C. Chambers, H. A. Flewelling, M. E. Huber, E. A. Magnier, C. Z. Waters, A. S. B. Schultz, J. Bulger, T. B. Lowe, M. Willman, K. Sárneczky, A. Pál, J. C. Wheeler, A. Bódi, Z. Bognár, B. Csák, B. Cseh, G. Csörnyei, O. Hanyecz, B. Ignácz, C. Kalup, R. Könyves-Tóth, L. Kriskovics, A. Ordasi, I. Rajmon, A. Sódor, R. Szabó, R. Szakáts, G. Zsidi, P. Milne, J. E. Andrews, N. Smith, C. Bilinski, P. J. Brown, J. Nordin, S. C. Williams, L. Galbany, J. Palmerio, I. M. Hook, C. Inserra, K. Maguire, R. Cartier, A. Razza, C. P. Gutiérrez, J. J. Hermes, J. S. Reding, B. C. Kaiser, J. L. Tonry, A. N. Heinze, L. Denneau, H. Weiland, B. Stalder, G. Barentsen, J. Dotson, T. Barclay, M. Gully-Santiago, C. Hedges, A. M. Cody, S. Howell, J. Coughlin, J. E. Van Cleve, J. V. d. M. Cardoso, K. A. Larson, K. M. McCalmont-Everton, C. A. Peterson, S. E. Ross, L. H. Reedy, D. Osborne, C. McGinn, L. Kohnert, L. Migliorini, A. Wheaton, B. Spencer, C. Labonde, G. Castillo, G. Beerman, K. Steward, M. Hanley, R. Larsen, R. Gangopadhyay, R. Kloetzl, T. Weschler, V. Nystrom, J. Moffatt, M. Redick, K. Griest, M. Packard, M. Muszynski, J. Kampmeier, R. Bjella, S. Flynn, and B. Elsaesser, 2019, *ApJ*, 870, 12

<https://doi.org/10.3847/1538-4357/aaec74>

<http://adsabs.harvard.edu/abs/2019ApJ...870...12L>

- 166 “Extending Supernova Spectral Templates for Next-generation Space Telescope Observations,” Pierel, J. D. R., S. Rodney, A. Avelino, F. Bianco, A. V. Filippenko, R. J. Foley, A. Friedman, M. Hicken, R. Hounsell, **S. W. Jha**, R. Kessler, R. P. Kirshner, K. Mandel, G. Narayan, D. Scolnic, and L. Strolger, 2018, *PASP*, 130, 114504

<https://doi.org/10.1088/1538-3873/aadb7a>

<http://adsabs.harvard.edu/abs/2018PASP...130k4504P>

- 165 “Should Type Ia Supernova Distances Be Corrected for Their Local Environments?” Jones, D. O., A. G. Riess, D. M. Scolnic, Y.-C. Pan, E. Johnson, D. A. Coulter, K. G. Dettman, M. M. Foley, R. J. Foley, M. E. Huber, **S. W. Jha**, C. D. Kilpatrick, R. P. Kirshner, A. Rest, A. S. B. Schultz, and M. R. Siebert, 2018, *ApJ*, 867, 108

<https://doi.org/10.3847/1538-4357/aae2b9>

<http://adsabs.harvard.edu/abs/2018ApJ...867...108J>

- 164 “Simulations of the WFIRST Supernova Survey and Forecasts of Cosmological Constraints,” Hounsell, R., D. Scolnic, R. J. Foley, R. Kessler, V. Miranda, A. Avelino, R. C. Bohlin, A. V. Filippenko, J. Frieman, **S. W. Jha**, P. L. Kelly, R. P. Kirshner, K. Mandel, A. Rest, A. G. Riess, S. A. Rodney, and L. Strolger, 2018, *ApJ*, 867, 23

<https://doi.org/10.3847/1538-4357/aac08b>  
<http://adsabs.harvard.edu/abs/2018ApJ...867...23H>

- 163 “Three Hypervelocity White Dwarfs in Gaia DR2: Evidence for Dynamically Driven Double-degenerate Double-detonation Type Ia Supernovae,” Shen, K. J., D. Boubert, B. T. Gänsicke, **S. W. Jha**, J. E. Andrews, L. Chomiuk, R. J. Foley, M. Fraser, M. Gromadzki, J. Guillochon, M. M. Kotze, K. Maguire, M. R. Siebert, N. Smith, J. Strader, C. Badenes, W. E. Kerzendorf, D. Koester, M. Kromer, B. Miles, R. Pakmor, J. Schwab, O. Toloza, S. Toonen, D. M. Townsley, and B. J. Williams, 2018, *ApJ*, 865, 15  
<https://doi.org/10.3847/1538-4357/aad55b>  
<http://adsabs.harvard.edu/abs/2018ApJ...865...15S>
- 162 “Nebular Spectroscopy of the ‘Blue Bump’ Type Ia Supernova 2017cbv,” Sand, D. J., M. L. Graham, J. Botyánszki, D. Hiramatsu, C. McCully, S. Valenti, G. Hosseinzadeh, D. A. Howell, J. Burke, R. Cartier, T. Diamond, E. Y. Hsiao, **S. W. Jha**, D. Kasen, S. Kumar, G. H. Marion, N. Suntzeff, L. Tartaglia, J. C. Wheeler, and S. Wyatt, 2018, *ApJ*, 863, 24  
<https://doi.org/10.3847/1538-4357/aacde8>  
<http://adsabs.harvard.edu/abs/2018ApJ...863...24S>
- 161 “The Data Release of the Sloan Digital Sky Survey-II Supernova Survey,” Sako, M., B. Bassett, A. C. Becker, P. J. Brown, H. Campbell, R. Wolf, D. Cinabro, C. B. D’Andrea, K. S. Dawson, F. DeJongh, D. L. Depoy, B. Dilday, M. Doi, A. V. Filippenko, J. A. Fischer, R. J. Foley, J. A. Frieman, L. Galbany, P. M. Garnavich, A. Goobar, R. R. Gupta, G. J. Hill, B. T. Hayden, R. Hlozek, J. A. Holtzman, U. Hopp, **S. W. Jha**, R. Kessler, W. Kollatschny, G. Leloudas, J. Marriner, J. L. Marshall, R. Miquel, T. Morokuma, J. Mosher, R. C. Nichol, J. Nordin, M. D. Olmstead, L. Östman, J. L. Prieto, M. Richmond, R. W. Romani, J. Sollerman, M. Stritzinger, D. P. Schneider, M. Smith, J. C. Wheeler, N. Yasuda, and C. Zheng, 2018, *PASP*, 130, 064002  
<https://doi.org/10.1088/1538-3873/aab4e0>  
<http://adsabs.harvard.edu/abs/2018PASP...130f4002S>
- 160 “The First Data Release from SweetSpot: 74 Supernovae in 36 Nights on WIYN+WHIRC,” Weyant, A., W. M. Wood-Vasey, R. Joyce, L. Allen, P. Garnavich, **S. W. Jha**, J. R. Kroboth, T. Matheson, and K. A. Ponder, 2018, *AJ*, 155, 201  
<https://doi.org/10.3847/1538-3881/aab901>  
<http://adsabs.harvard.edu/abs/2018AJ....155..201W>
- 159 “Extreme magnification of an individual star at redshift 1.5 by a galaxy-cluster lens,” Kelly, P. L., J. M. Diego, S. Rodney, N. Kaiser, T. Broadhurst, A. Zitrin, T. Treu, P. G. Pérez-González, T. Morishita, M. Jauzac, J. Selsing, M. Oguri, L. Pueyo, T. W. Ross, A. V. Filippenko, N. Smith, J. Hjorth, S. B. Cenko, X. Wang, D. A. Howell, J. Richard, B. L. Frye, **S. W. Jha**, R. J. Foley, C. Norman, M. Bradac, W. Zheng, G. Brammer, A. M. Benito, A. Cava, L. Christensen, S. E. de Mink, O. Graur, C. Grillo, R. Kawamata, J.-P. Kneib, T. Matheson, C. McCully, M. Nonino, I. Pérez-Fournon, A. G. Riess, P. Rosati, K. B. Schmidt, K. Sharon,

and B. J. Weiner, 2018, *NatAs*, 2, 334-342  
<https://doi.org/10.1038/s41550-018-0430-3>  
<http://adsabs.harvard.edu/abs/2018NatAs...2...334K>

- 158 “Two peculiar fast transients in a strongly lensed host galaxy,” Rodney, S. A., I. Balestra, M. Bradac, G. Brammer, T. Broadhurst, G. B. Caminha, G. Chirivi, J. M. Diego, A. V. Filippenko, R. J. Foley, O. Graur, C. Grillo, S. Hemmati, J. Hjorth, A. Hoag, M. Jauzac, **S. W. Jha**, R. Kawamata, P. L. Kelly, C. McCully, B. Mobasher, A. Molino, M. Oguri, J. Richard, A. G. Riess, P. Rosati, K. B. Schmidt, J. Selsing, K. Sharon, L.-G. Strolger, S. H. Suyu, T. Treu, B. J. Weiner, L. L. R. Williams, and A. Zitrin, 2018, *NatAs*, 2, 324-333  
<https://doi.org/10.1038/s41550-018-0405-4>  
<http://adsabs.harvard.edu/abs/2018NatAs...2...324R>
- 157 “The Foundation Supernova Survey: motivation, design, implementation, and first data release,” Foley, R. J., D. Scolnic, A. Rest, **S. W. Jha**, Y.-C. Pan, A. G. Riess, P. Challis, K. C. Chambers, D. A. Coulter, K. G. Dettman, M. M. Foley, O. D. Fox, M. E. Huber, D. O. Jones, C. D. Kilpatrick, R. P. Kirshner, A. S. B. Schultz, M. R. Siebert, H. A. Flewelling, B. Gibson, E. A. Magnier, J. A. Miller, N. Primak, S. J. Smartt, K. W. Smith, R. J. Wainscoat, C. Waters, and M. Willman, 2018, *MNRAS*, 475, 193-219  
<https://doi.org/10.1093/mnras/stx3136>  
<http://adsabs.harvard.edu/abs/2018MNRAS.475..193F>
- 156 “Astronomical Distance Determination in the Space Age. Secondary Distance Indicators,” Czerny, B., R. Beaton, M. Bejger, E. Cackett, M. Dall’Ora, R. F. L. Holanda, J. B. Jensen, **S. W. Jha**, E. Lusso, T. Minezaki, G. Risaliti, M. Salaris, S. Toonen, and Y. Yoshii, 2018, *SSRv*, 214, 32  
<https://doi.org/10.1007/s11214-018-0466-9>  
<http://adsabs.harvard.edu/abs/2018SSRv..214...32C>
- 155 “Type Ia Supernova Distances at Redshift  $>1.5$  from the Hubble Space Telescope Multi-cycle Treasury Programs: The Early Expansion Rate,” Riess, A. G., S. A. Rodney, D. M. Scolnic, D. L. Shafer, L.-G. Strolger, H. C. Ferguson, M. Postman, O. Graur, D. Maoz, **S. W. Jha**, B. Mobasher, S. Casertano, B. Hayden, A. Molino, J. Hjorth, P. M. Garnavich, D. O. Jones, R. P. Kirshner, A. M. Koekemoer, N. A. Grogan, G. Brammer, S. Hemmati, M. Dickinson, P. M. Challis, S. Wolff, K. I. Clubb, A. V. Filippenko, H. Nayyeri, V. U, D. C. Koo, S. M. Faber, D. Kocevski, L. Bradley, and D. Coe, 2018, *ApJ*, 853, 126  
<https://doi.org/10.3847/1538-4357/aaa5a9>  
<http://adsabs.harvard.edu/abs/2018ApJ...853..126R>
- 154 “The Early Detection and Follow-up of the Highly Obscured Type II Supernova 2016ija/DLT16am,” Tartaglia, L., D. J. Sand, S. Valenti, S. Wyatt, J. P. Anderson, I. Arcavi, C. Ashall, M. T. Botticella, R. Cartier, T.-W. Chen, A. Cikota, D. Coulter, M. Della Valle, R. J. Foley, A. Gal-Yam, L. Galbany, C. Gall, J. B. Haislip, J. Harmanen, G. Hosseinzadeh,

D. A. Howell, E. Y. Hsiao, C. Inserra, **S. W. Jha**, E. Kankare, C. D. Kilpatrick, V. V. Kouprianov, H. Kuncarayakti, T. J. Maccarone, K. Maguire, S. Mattila, P. A. Mazzali, C. McCully, A. Melandri, N. Morrell, M. M. Phillips, G. Pignata, A. L. Piro, S. Prentice, D. E. Reichart, C. Rojas-Bravo, S. J. Smartt, K. W. Smith, J. Sollerman, M. D. Stritzinger, M. Sullivan, F. Taddia, and D. R. Young, 2018, *ApJ*, 853, 62  
<https://doi.org/10.3847/1538-4357/aaa014>  
<http://adsabs.harvard.edu/abs/2018ApJ...853...62T>

153 “Measuring the Hubble constant with Type Ia supernovae as near-infrared standard candles,” Dhawan, S., **S. W. Jha**, and B. Leibundgut, 2018, *A&A*, 609, A72  
<https://doi.org/10.1051/0004-6361/201731501>  
<http://adsabs.harvard.edu/abs/2018A%26A...609A..72D>

152 “A hybrid type Ia supernova with an early flash triggered by helium-shell detonation,” Jiang, J.-A., M. Doi, K. Maeda, T. Shigeyama, K. Nomoto, N. Yasuda, **S. W. Jha**, M. Tanaka, T. Morokuma, N. Tominaga, Zcaron;. Ivezić, P. Ruiz-Lapuente, M. D. Stritzinger, P. A. Mazzali, C. Ashall, J. Mould, D. Baade, N. Suzuki, A. J. Connolly, F. Patat, L. Wang, P. Yoachim, D. Jones, H. Furusawa, and S. Miyazaki, 2017, *Nature*, 550, 80-83  
<https://doi.org/10.1038/nature23908>  
<http://adsabs.harvard.edu/abs/2017Natur.550...80J>

151 “The Discovery of the Electromagnetic Counterpart of GW170817: Kilonova AT 2017gfo/DLT17ck,” Valenti, S., David, J. Sand, S. Yang, E. Cappellaro, L. Tartaglia, A. Corsi, **S. W. Jha**, D. E. Reichart, J. Haislip, and V. Kouprianov, 2017, *ApJ*, 848, L24  
<https://doi.org/10.3847/2041-8213/aa8edf>  
<http://adsabs.harvard.edu/abs/2017ApJ...848L..24V>

150 “CLASH: accurate photometric redshifts with 14 HST bands in massive galaxy cluster cores,” Molino, A., N. Benítez, B. Ascaso, D. Coe, M. Postman, S. Jouvel, O. Host, O. Lahav, S. Seitz, E. Medezinski, P. Rosati, W. Schoenell, A. Koekemoer, Y. Jimenez-Teja, T. Broadhurst, P. Melchior, I. Balestra, M. Bartelmann, R. Bouwens, L. Bradley, N. Czakon, M. Donahue, H. Ford, O. Graur, G. Graves, C. Grillo, L. Infante, **S. W. Jha**, D. Kelson, R. Lazkoz, D. Lemze, D. Maoz, A. Mercurio, M. Meneghetti, J. Merten, L. Moustakas, M. Nonino, S. Orgaz, A. Riess, S. Rodney, J. Sayers, K. Umetsu, W. Zheng, and A. Zitrin, 2017, *MNRAS*, 470, 95-113  
<https://doi.org/10.1093/mnras/stx1243>  
<http://adsabs.harvard.edu/abs/2017MNRAS.470...95M>

149 “The Unexpected, Long-Lasting, UV Rebrightening of the Super-Luminous Supernova ASASSN-15lh,” Godoy-Rivera, D., K. Z. Stanek, C. S. Kochanek, P. Chen, S. Dong, J. L. Prieto, B. J. Shappee, **S. W. Jha**, R. J. Foley, Y.-C. Pan, T. W.-S. Holoien, T. A. Thompson, D. Grupe, and J. F. Beacom, 2017, *MNRAS*, 466, 1428-1443  
<https://doi.org/10.1093/mnras/stw3237>  
<http://adsabs.harvard.edu/abs/2017MNRAS.466.1428G>

- 148 “The Progenitor and Early Evolution of the Type IIb SN 2016gkg,” Tartaglia, L., M. Fraser, D. J. Sand, S. Valenti, S. J. Smartt, C. McCully, J. P. Anderson, I. Arcavi, N. Elias-Rosa, L. Galbany, A. Gal-Yam, J. B. Haislip, G. Hosseinzadeh, D. A. Howell, C. Inserra, **S. W. Jha**, E. Kankare, P. Lundqvist, K. Maguire, S. Mattila, D. Reichart, K. W. Smith, M. Smith, M. Stritzinger, M. Sullivan, F. Taddia, and L. Tomasella, 2017, *ApJ*, 836, L12  
<https://doi.org/10.3847/2041-8213/aa5c7f>  
<http://adsabs.harvard.edu/abs/2017ApJ...836L..12T>
- 147 “SN Refsdal: Classification as a Luminous and Blue SN 1987A-like Type II Supernova,” Kelly, P. L., G. Brammer, J. Selsing, R. J. Foley, J. Hjorth, S. A. Rodney, L. Christensen, L.-G. Strolger, A. V. Filippenko, T. Treu, C. C. Steidel, A. Strom, A. G. Riess, A. Zitrin, K. B. Schmidt, M. Bradač, **S. W. Jha**, M. L. Graham, C. McCully, O. Graur, B. J. Weiner, J. M. Silverman, and F. Taddia, 2016, *ApJ*, 831, 205  
<https://doi.org/10.3847/0004-637X/831/2/205>  
<http://adsabs.harvard.edu/abs/2016ApJ...831..205K>
- 146 “Late-time spectroscopy of Type Ia Supernovae,” Foley, R. J., **S. W. Jha**, Y.-C. Pan, W. K. Zheng, L. Bildsten, A. V. Filippenko, and D. Kasen, 2016, *MNRAS*, 461, 433-457  
<https://doi.org/10.1093/mnras/stw1320>  
<http://adsabs.harvard.edu/abs/2016MNRAS.461..433F>
- 145 “Light Curves of 213 Type Ia Supernovae from the ESSENCE Survey,” Narayan, G., A. Rest, B. E. Tucker, R. J. Foley, W. M. Wood-Vasey, P. Challis, C. Stubbs, R. P. Kirshner, C. Aguilera, A. C. Becker, S. Blondin, A. Clocchiatti, R. Covarrubias, G. Damke, T. M. Davis, A. V. Filippenko, M. Ganeshalingam, A. Garg, P. M. Garnavich, M. Hicken, **S. W. Jha**, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, G. Miknaitis, G. Pignata, J. L. Prieto, A. G. Riess, B. P. Schmidt, J. M. Silverman, R. C. Smith, J. Sollerman, J. Spyromilio, N. B. Suntzeff, J. L. Tonry, and A. Zenteno, 2016, *ApJS*, 224, 3  
<https://doi.org/10.3847/0067-0049/224/1/3>  
<http://adsabs.harvard.edu/abs/2016ApJS..224....3N>
- 144 “SDSS-II Supernova Survey: An Analysis of the Largest Sample of Type Ia Supernovae and Correlations with Host-galaxy Spectral Properties,” Wolf, R. C., C. B. D’Andrea, R. R. Gupta, M. Sako, J. A. Fischer, R. Kessler, **S. W. Jha**, M. C. March, D. M. Scolnic, J.-L. Fischer, H. Campbell, R. C. Nichol, M. D. Olmstead, M. Richmond, D. P. Schneider, and M. Smith, 2016, *ApJ*, 821, 115  
<https://doi.org/10.3847/0004-637X/821/2/115>  
<http://adsabs.harvard.edu/abs/2016ApJ...821..115W>
- 143 “SN 2012cg: Evidence for Interaction Between a Normal Type Ia Supernova and a Non-degenerate Binary Companion,” Marion, G. H., P. J. Brown, J. Vinkó, J. M. Silverman, D. J. Sand, P. Challis, R. P. Kirshner, J. C. Wheeler, P. Berlind, W. R. Brown, M. L. Calkins, Y. Camacho, G. Dhungana, R. J. Foley, A. S. Friedman, M. L. Graham, D. A. Howell,

- E. Y. Hsiao, J. M. Irwin, **S. W. Jha**, R. Kehoe, L. M. Macri, K. Maeda, K. Mandel, C. McCully, V. Pandya, K. J. Rines, S. Wilhelmly, and W. Zheng, 2016, *ApJ*, 820, 92  
<https://doi.org/10.3847/0004-637X/820/2/92>  
<http://adsabs.harvard.edu/abs/2016ApJ...820...92M>
- 142 “SN Refsdal: Photometry and Time Delay Measurements of the First Einstein Cross Supernova,” Rodney, S. A., L.-G. Strolger, P. L. Kelly, M. Bradač, G. Brammer, A. V. Filippenko, R. J. Foley, O. Graur, J. Hjorth, **S. W. Jha**, C. McCully, A. Molino, A. G. Riess, K. B. Schmidt, J. Selsing, K. Sharon, T. Treu, B. J. Weiner, and A. Zitrin, 2016, *ApJ*, 820, 50  
<https://doi.org/10.3847/0004-637X/820/1/50>  
<http://adsabs.harvard.edu/abs/2016ApJ...820...50R>
- 141 “Deja Vu All Over Again: The Reappearance of Supernova Refsdal,” Kelly, P. L., S. A. Rodney, T. Treu, L.-G. Strolger, R. J. Foley, **S. W. Jha**, J. Selsing, G. Brammer, M. Bradač, S. B. Cenko, O. Graur, A. V. Filippenko, J. Hjorth, C. McCully, A. Molino, M. Nonino, A. G. Riess, K. B. Schmidt, B. Tucker, A. von der Linden, B. J. Weiner, and A. Zitrin, 2016, *ApJ*, 819, L8  
<https://doi.org/10.3847/2041-8205/819/1/L8>  
<http://adsabs.harvard.edu/abs/2016ApJ...819L...8K>
- 140 “ASASSN-15lh: A highly super-luminous supernova,” Dong, S., B. J. Shappee, J. L. Prieto, **S. W. Jha**, K. Z. Stanek, T. W.-S. Holoien, C. S. Kochanek, T. A. Thompson, N. Morrell, I. B. Thompson, U. Basu, J. F. Beacom, D. Bersier, J. Brimacombe, J. S. Brown, F. Bufano, P. Chen, E. Conseil, A. B. Danilet, E. Falco, D. Grupe, S. Kiyota, G. Masi, B. Nicholls, F. Olivares E., G. Pignata, G. Pojmanski, G. V. Simonian, D. M. Szczygiel, and P. R. Woźniak, 2016, *Science*, 351, 257-260  
<https://doi.org/10.1126/science.aac9613>  
<http://adsabs.harvard.edu/abs/2016Sci...351..257D>
- 139 “Refsdal Meets Popper: Comparing Predictions of the Re-appearance of the Multiply Imaged Supernova Behind MACSJ1149.5+2223,” Treu, T., G. Brammer, J. M. Diego, C. Grillo, P. L. Kelly, M. Oguri, S. A. Rodney, P. Rosati, K. Sharon, A. Zitrin, I. Balestra, M. Bradač, T. Broadhurst, G. B. Caminha, A. Halkola, A. Hoag, M. Ishigaki, T. L. Johnson, W. Karman, R. Kawamata, A. Mercurio, K. B. Schmidt, L.-G. Strolger, S. H. Suyu, A. V. Filippenko, R. J. Foley, **S. W. Jha**, and B. Patel, 2016, *ApJ*, 817, 60  
<https://doi.org/10.3847/0004-637X/817/1/60>  
<http://adsabs.harvard.edu/abs/2016ApJ...817...60T>
- 138 “Measuring nickel masses in Type Ia supernovae using cobalt emission in nebular phase spectra,” Childress, M. J., D. J. Hillier, I. Seitenzahl, M. Sullivan, K. Maguire, S. Taubenberger, R. Scalzo, A. Ruiter, N. Blagorodnova, Y. Camacho, J. Castillo, N. Elias-Rosa, M. Fraser, A. Gal-Yam, M. Graham, D. A. Howell, C. Inserra, **S. W. Jha**, S. Kumar, P. A. Mazzali, C. McCully, A. Morales-Garoffolo, V. Pandya, J. Polshaw, B. Schmidt, S. Smartt, K. W. Smith, J. Sollerman, J. Spyromilio, B. Tucker, S. Valenti, N. Walton, C. Wolf, O. Yaron, D. R. Young,

F. Yuan, and B. Zhang, 2015, MNRAS, 454, 3816-3842  
<https://doi.org/10.1093/mnras/stv2173>  
<http://adsabs.harvard.edu/abs/2015MNRAS.454.3816C>

- 137 “Illuminating a Dark Lens : A Type Ia Supernova Magnified by the Frontier Fields Galaxy Cluster Abell 2744,” Rodney, S. A., B. Patel, D. Scolnic, R. J. Foley, A. Molino, G. Brammer, M. Jauzac, M. Bradač, T. Broadhurst, D. Coe, J. M. Diego, O. Graur, J. Hjorth, A. Hoag, **S. W. Jha**, T. L. Johnson, P. Kelly, D. Lam, C. McCully, E. Medezinski, M. Meneghetti, J. Merten, J. Richard, A. Riess, K. Sharon, L.-G. Strolger, T. Treu, X. Wang, L. L. R. Williams, and A. Zitrin, 2015, ApJ, 811, 70  
<https://doi.org/10.1088/0004-637X/811/1/70>  
<http://adsabs.harvard.edu/abs/2015ApJ...811...70R>
- 136 “Multiple images of a highly magnified supernova formed by an early-type cluster galaxy lens,” Kelly, P. L., S. A. Rodney, T. Treu, R. J. Foley, G. Brammer, K. B. Schmidt, A. Zitrin, A. Sonnenfeld, L.-G. Strolger, O. Graur, A. V. Filippenko, **S. W. Jha**, A. G. Riess, M. Bradac, B. J. Weiner, D. Scolnic, M. A. Malkan, A. von der Linden, M. Trenti, J. Hjorth, R. Gavazzi, A. Fontana, J. C. Merten, C. McCully, T. Jones, M. Postman, A. Dressler, B. Patel, S. B. Cenko, M. L. Graham, and B. E. Tucker, 2015, Science, 347, 1123-1126  
<https://doi.org/10.1126/science.aaa3350>  
<http://adsabs.harvard.edu/abs/2015Sci...347.1123K>
- 135 “On the Progenitor System of the Type Ia Supernova 2014dt in M61,” Foley, R. J., S. D. Van Dyk, **S. W. Jha**, K. I. Clubb, A. V. Filippenko, J. C. Mauerhan, A. A. Miller, and N. Smith, 2015, ApJ, 798, L37  
<https://doi.org/10.1088/2041-8205/798/2/L37>  
<http://adsabs.harvard.edu/abs/2015ApJ...798L..37F>
- 134 “Comprehensive observations of the bright and energetic Type Ia SN 2012Z: Interpretation as a Chandrasekhar mass white dwarf explosion,” Stritzinger, M. D., S. Valenti, P. Hoeflich, E. Baron, M. M. Phillips, F. Taddia, R. J. Foley, E. Y. Hsiao, **S. W. Jha**, C. McCully, V. Pandya, J. D. Simon, S. Benetti, P. J. Brown, C. R. Burns, A. Campillay, C. Contreras, F. Förster, S. Holmbo, G. H. Marion, N. Morrell, and G. Pignata, 2015, A&A, 573, A2  
<https://doi.org/10.1051/0004-6361/201424168>  
<http://adsabs.harvard.edu/abs/2015A%26A...573A...2S>
- 133 “Extensive HST ultraviolet spectra and multiwavelength observations of SN 2014J in M82 indicate reddening and circumstellar scattering by typical dust,” Foley, R. J., O. D. Fox, C. McCully, M. M. Phillips, D. J. Sand, W. Zheng, P. Challis, A. V. Filippenko, G. Folatelli, W. Hillebrandt, E. Y. Hsiao, **S. W. Jha**, R. P. Kirshner, M. Kromer, G. H. Marion, M. Nelson, R. Pakmor, G. Pignata, F. K. Röpkke, I. R. Seitenzahl, J. M. Silverman, M. Skrutskie, and M. D. Stritzinger, 2014, MNRAS, 443, 2887-2906  
<https://doi.org/10.1093/mnras/stu1378>  
<http://adsabs.harvard.edu/abs/2014MNRAS.443.2887F>

- 132 “Possible Detection of the Stellar Donor or Remnant for the Type Iax Supernova 2008ha,” Foley, R. J., C. McCully, **S. W. Jha**, L. Bildsten, W.-f. Fong, G. Narayan, A. Rest, and M. D. Stritzinger, 2014, *ApJ*, 792, 29  
<https://doi.org/10.1088/0004-637X/792/1/29>  
<http://adsabs.harvard.edu/abs/2014ApJ...792...29F>
- 131 “Improving the LSST dithering pattern and cadence for dark energy studies,” Carroll, C. M., E. Gawiser, P. L. Kurczynski, R. A. Bailey, R. Biswas, D. Cinabro, **S. W. Jha**, R. L. Jones, K. S. Krughoff, A. Sonawalla, and W. M. Wood-Vasey, 2014, *SPIE*, 9149, 91490C  
<https://doi.org/10.1117/12.2057267>  
<http://adsabs.harvard.edu/abs/2014SPIE.9149E..0CC>
- 130 “A luminous, blue progenitor system for the type Iax supernova 2012Z,” McCully, C., **S. W. Jha**, R. J. Foley, L. Bildsten, W.-f. Fong, R. P. Kirshner, G. H. Marion, A. G. Riess, and M. D. Stritzinger, 2014, *Nature*, 512, 54-56  
<https://doi.org/10.1038/nature13615>  
<http://adsabs.harvard.edu/abs/2014Natur.512...54M>
- 129 “Improved cosmological constraints from a joint analysis of the SDSS-II and SNLS supernova samples,” Betoule, M., R. Kessler, J. Guy, J. Mosher, D. Hardin, R. Biswas, P. Astier, P. El-Hage, M. Konig, S. Kuhlmann, J. Marriner, R. Pain, N. Regnault, C. Balland, B. A. Bassett, P. J. Brown, H. Campbell, R. G. Carlberg, F. Cellier-Holzem, D. Cinabro, A. Conley, C. B. D’Andrea, D. L. DePoy, M. Doi, R. S. Ellis, S. Fabbro, A. V. Filippenko, R. J. Foley, J. A. Frieman, D. Fouchez, L. Galbany, A. Goobar, R. R. Gupta, G. J. Hill, R. Hlozek, C. J. Hogan, I. M. Hook, D. A. Howell, **S. W. Jha**, L. Le Guillou, G. Leloudas, C. Lidman, J. L. Marshall, A. Möller, A. M. Mourão, J. Neveu, R. Nichol, M. D. Olmstead, N. Palanque-Delabrouille, S. Perlmutter, J. L. Prieto, C. J. Pritchett, M. Richmond, A. G. Riess, V. Ruhlmann-Kleider, M. Sako, K. Schahmanche, D. P. Schneider, M. Smith, J. Sollerman, M. Sullivan, N. A. Walton, and C. J. Wheeler, 2014, *A&A*, 568, A22  
<https://doi.org/10.1051/0004-6361/201423413>  
<http://adsabs.harvard.edu/abs/2014A%26A...568A..22B>
- 128 “Type Ia Supernova Rate Measurements to Redshift 2.5 from CANDELS: Searching for Prompt Explosions in the Early Universe,” Rodney, S. A., A. G. Riess, L.-G. Strolger, T. Dahlen, O. Graur, S. Casertano, M. E. Dickinson, H. C. Ferguson, P. Garnavich, B. Hayden, **S. W. Jha**, D. O. Jones, R. P. Kirshner, A. M. Koekemoer, C. McCully, B. Mobasher, B. Patel, B. J. Weiner, S. B. Cenko, K. I. Clubb, M. Cooper, A. V. Filippenko, T. F. Frederiksen, J. Hjorth, B. Leibundgut, T. Matheson, H. Nayyeri, K. Penner, J. Trump, J. M. Silverman, V. U. K. Azalee Bostroem, P. Challis, A. Rajan, S. Wolff, S. M. Faber, N. A. Grogin, and D. Kocevski, 2014, *AJ*, 148, 13  
<https://doi.org/10.1088/0004-6256/148/1/13>  
<http://adsabs.harvard.edu/abs/2014AJ....148...13R>
- 127 “Hubble Space Telescope and Ground-based Observations of the Type Iax Supernovae SN



2005hk and SN 2008A,” McCully, C., **S. W. Jha**, R. J. Foley, R. Chornock, J. A. Holtzman, D. D. Balam, D. Branch, A. V. Filippenko, J. Frieman, J. Fynbo, L. Galbany, M. Ganeshalingam, P. M. Garnavich, M. L. Graham, E. Y. Hsiao, G. Leloudas, D. C. Leonard, W. Li, A. G. Riess, M. Sako, D. P. Schneider, J. M. Silverman, J. Sollerman, T. N. Steele, R. C. Thomas, J. C. Wheeler, and C. Zheng, 2014, *ApJ*, 786, 134  
<https://doi.org/10.1088/0004-637X/786/2/134>  
<http://adsabs.harvard.edu/abs/2014ApJ...786..134M>

126 “Three Gravitationally Lensed Supernovae behind CLASH Galaxy Clusters,” Patel, B., C. McCully, **S. W. Jha**, S. A. Rodney, D. O. Jones, O. Graur, J. Merten, A. Zitrin, A. G. Riess, T. Matheson, M. Sako, T. W.-S. Holoien, M. Postman, D. Coe, M. Bartelmann, I. Balestra, N. Benítez, R. Bouwens, L. Bradley, T. Broadhurst, S. B. Cenko, M. Donahue, A. V. Filippenko, H. Ford, P. Garnavich, C. Grillo, L. Infante, S. Jovel, D. Kelson, A. Koekemoer, O. Lahav, D. Lemze, D. Maoz, E. Medezinski, P. Melchior, M. Meneghetti, A. Molino, J. Moustakas, L. A. Moustakas, M. Nonino, P. Rosati, S. Seitz, L. G. Strolger, K. Umetsu, and W. Zheng, 2014, *ApJ*, 786, 9  
<https://doi.org/10.1088/0004-637X/786/1/9>  
<http://adsabs.harvard.edu/abs/2014ApJ...786....9P>

125 “Optical Spectra of 73 Stripped-envelope Core-collapse Supernovae,” Modjaz, M., S. Blondin, R. P. Kirshner, T. Matheson, P. Berlind, F. B. Bianco, M. L. Calkins, P. Challis, P. Garnavich, M. Hicken, **S. Jha**, Y. Q. Liu, and G. H. Marion, 2014, *AJ*, 147, 99  
<https://doi.org/10.1088/0004-6256/147/5/99>  
<http://adsabs.harvard.edu/abs/2014AJ....147...99M>

124 “SweetSpot: Near-infrared Observations of 13 Type Ia Supernovae from a New NOAO Survey Probing the Nearby Smooth Hubble Flow,” Weyant, A., W. M. Wood-Vasey, L. Allen, P. M. Garnavich, **S. W. Jha**, R. Joyce, and T. Matheson, 2014, *ApJ*, 784, 105  
<https://doi.org/10.1088/0004-637X/784/2/105>  
<http://adsabs.harvard.edu/abs/2014ApJ...784..105W>

123 “Host Galaxy Spectra and Consequences for Supernova Typing from the SDSS SN Survey,” Olmstead, M. D., P. J. Brown, M. Sako, B. Bassett, D. Bizyaev, J. Brinkmann, J. R. Brownstein, H. Brewington, H. Campbell, C. B. D’Andrea, K. S. Dawson, G. L. Ebelke, J. A. Frieman, L. Galbany, P. Garnavich, R. R. Gupta, R. Hlozek, **S. W. Jha**, M. Kunz, H. Lampeitl, E. Malanushenko, V. Malanushenko, J. Marriner, R. Miquel, A. D. Montero-Dorta, R. C. Nichol, D. J. Oravetz, K. Pan, D. P. Schneider, A. E. Simmons, M. Smith, and S. A. Snedden, 2014, *AJ*, 147, 75  
<https://doi.org/10.1088/0004-6256/147/4/75>  
<http://adsabs.harvard.edu/abs/2014AJ....147...75O>

122 “Type-Ia Supernova Rates to Redshift 2.4 from CLASH: The Cluster Lensing And Supernova Survey with Hubble,” Graur, O., S. A. Rodney, D. Maoz, A. G. Riess, **S. W. Jha**, M. Postman, T. Dahlen, T. W.-S. Holoien, C. McCully, B. Patel, L.-G. Strolger, N. Benítez, D. Coe,

S. Jouvel, E. Medezinski, A. Molino, M. Nonino, L. Bradley, A. Koekemoer, I. Balestra, S. B. Cenko, K. I. Clubb, M. E. Dickinson, A. V. Filippenko, T. F. Frederiksen, P. Garnavich, J. Hjorth, D. O. Jones, B. Leibundgut, T. Matheson, B. Mobasher, P. Rosati, J. M. Silverman, V. U. K. Jedruszczuk, C. Li, K. Lin, M. Mirmelstein, J. Neustadt, A. Ovidia, and E. H. Rogers, 2014, *ApJ*, 783, 28

<https://doi.org/10.1088/0004-637X/783/1/28>

<http://adsabs.harvard.edu/abs/2014ApJ...783...28G>

- 121 “Spectroscopic Observations of SN 2012fr: A Luminous, Normal Type Ia Supernova with Early High-velocity Features and a Late Velocity Plateau,” Childress, M. J., R. A. Scalzo, S. A. Sim, B. E. Tucker, F. Yuan, B. P. Schmidt, S. B. Cenko, J. M. Silverman, C. Contreras, E. Y. Hsiao, M. Phillips, N. Morrell, **S. W. Jha**, C. McCully, A. V. Filippenko, J. P. Anderson, S. Benetti, F. Bufano, T. de Jaeger, F. Forster, A. Gal-Yam, L. Le Guillou, K. Maguire, J. Maund, P. A. Mazzali, G. Pignata, S. Smartt, J. Spyromilio, M. Sullivan, F. Taddia, S. Valenti, D. D. R. Bayliss, M. Bessell, G. A. Blanc, D. J. Carson, K. I. Clubb, C. de Burgh-Day, T. D. Desjardins, J. J. Fang, O. D. Fox, E. L. Gates, I.-T. Ho, S. Keller, P. L. Kelly, C. Lidman, N. S. Loaring, J. R. Mould, M. Owers, S. Ozbilgen, L. Pei, T. Pickering, M. B. Pracy, J. A. Rich, B. E. Schaefer, N. Scott, M. Stritzinger, F. P. A. Vogt, and G. Zhou, 2013, *ApJ*, 770, 29

<https://doi.org/10.1088/0004-637X/770/1/29>

<http://adsabs.harvard.edu/abs/2013ApJ...770...29C>

- 120 “The Discovery of the Most Distant Known Type Ia Supernova at Redshift 1.914,” Jones, D. O., S. A. Rodney, A. G. Riess, B. Mobasher, T. Dahlen, C. McCully, T. F. Frederiksen, S. Casertano, J. Hjorth, C. R. Keeton, A. Koekemoer, L.-G. Strolger, T. G. Wiklind, P. Challis, O. Graur, B. Hayden, B. Patel, B. J. Weiner, A. V. Filippenko, P. Garnavich, **S. W. Jha**, R. P. Kirshner, H. C. Ferguson, N. A. Grogin, and D. Kocevski, 2013, *ApJ*, 768, 166

<https://doi.org/10.1088/0004-637X/768/2/166>

<http://adsabs.harvard.edu/abs/2013ApJ...768..166J>

- 119 “Type Iax Supernovae: A New Class of Stellar Explosion,” Foley, R. J., P. J. Challis, R. Chornock, M. Ganeshalingam, W. Li, G. H. Marion, N. I. Morrell, G. Pignata, M. D. Stritzinger, J. M. Silverman, X. Wang, J. P. Anderson, A. V. Filippenko, W. L. Freedman, M. Hamuy, **S. W. Jha**, R. P. Kirshner, C. McCully, S. E. Persson, M. M. Phillips, D. E. Reichart, and A. M. Soderberg, 2013, *ApJ*, 767, 57

<https://doi.org/10.1088/0004-637X/767/1/57>

<http://adsabs.harvard.edu/abs/2013ApJ...767...57F>

- 118 “Testing Models of Intrinsic Brightness Variations in Type Ia Supernovae and Their Impact on Measuring Cosmological Parameters,” Kessler, R., J. Guy, J. Murriner, M. Betoule, J. Brinkmann, D. Cinabro, P. El-Hage, J. A. Frieman, **S. Jha**, J. Mosher, and D. P. Schneider, 2013, *ApJ*, 764, 48

<https://doi.org/10.1088/0004-637X/764/1/48>

<http://adsabs.harvard.edu/abs/2013ApJ...764...48K>

- 117 “Cosmology with Photometrically Classified Type Ia Supernovae from the SDSS-II Supernova Survey,” Campbell, H., C. B. D’Andrea, R. C. Nichol, M. Sako, M. Smith, H. Lampeitl, M. D. Olmstead, B. Bassett, R. Biswas, P. Brown, D. Cinabro, K. S. Dawson, B. Dilday, R. J. Foley, J. A. Frieman, P. Garnavich, R. Hlozek, **S. W. Jha**, S. Kuhlmann, M. Kunz, J. Marriner, R. Miquel, M. Richmond, A. Riess, D. P. Schneider, J. Sollerman, M. Taylor, and G.-B. Zhao, 2013, *ApJ*, 763, 88  
<https://doi.org/10.1088/0004-637X/763/2/88>  
<http://adsabs.harvard.edu/abs/2013ApJ...763...88C>
- 116 “A magnified young galaxy from about 500 million years after the Big Bang,” Zheng, W., M. Postman, A. Zitrin, J. Moustakas, X. Shu, S. Jovel, O. Høst, A. Molino, L. Bradley, D. Coe, L. A. Moustakas, M. Carrasco, H. Ford, N. Benítez, T. R. Lauer, S. Seitz, R. Bouwens, A. Koekemoer, E. Medezinski, M. Bartelmann, T. Broadhurst, M. Donahue, C. Grillo, L. Infante, **S. W. Jha**, D. D. Kelson, O. Lahav, D. Lemze, P. Melchior, M. Meneghetti, J. Merten, M. Nonino, S. Ogaz, P. Rosati, K. Umetsu, and A. van der Wel, 2012, *Nature*, 489, 406-408  
<https://doi.org/10.1038/nature11446>  
<http://adsabs.harvard.edu/abs/2012Natur.489..406Z>
- 115 “Berkeley Supernova Ia Program - I. Observations, data reduction and spectroscopic sample of 582 low-redshift Type Ia supernovae,” Silverman, J. M., R. J. Foley, A. V. Filippenko, M. Ganeshalingam, A. J. Barth, R. Chornock, C. V. Griffith, J. J. Kong, N. Lee, D. C. Leonard, T. Matheson, E. G. Miller, T. N. Steele, B. J. Barris, J. S. Bloom, B. E. Cobb, A. L. Coil, L.-B. Desroches, E. L. Gates, L. C. Ho, **S. W. Jha**, M. T. Kandrashoff, W. Li, K. S. Mandel, M. Modjaz, M. R. Moore, R. E. Mostardi, M. S. Papenkova, S. Park, D. A. Perley, D. Poznanski, C. A. Reuter, J. Scala, F. J. D. Serduke, J. C. Shields, B. J. Swift, J. L. Tonry, S. D. Van Dyk, X. Wang, and D. S. Wong, 2012, *MNRAS*, 425, 1789-1818  
<https://doi.org/10.1111/j.1365-2966.2012.21270.x>  
<http://adsabs.harvard.edu/abs/2012MNRAS.425.1789S>
- 114 “CLASH: Precise New Constraints on the Mass Profile of the Galaxy Cluster A2261,” Coe, D., K. Umetsu, A. Zitrin, M. Donahue, E. Medezinski, M. Postman, M. Carrasco, T. Anguita, M. J. Geller, K. J. Rines, A. Diaferio, M. J. Kurtz, L. Bradley, A. Koekemoer, W. Zheng, M. Nonino, A. Molino, A. Mahdavi, D. Lemze, L. Infante, S. Ogaz, P. Melchior, O. Host, H. Ford, C. Grillo, P. Rosati, Y. Jiménez-Teja, J. Moustakas, T. Broadhurst, B. Ascaso, O. Lahav, M. Bartelmann, N. Benítez, R. Bouwens, O. Graur, G. Graves, **S. Jha**, S. Jovel, D. Kelson, L. Moustakas, D. Maoz, M. Meneghetti, J. Merten, A. Riess, S. Rodney, and S. Seitz, 2012, *ApJ*, 757, 22  
<https://doi.org/10.1088/0004-637X/757/1/22>  
<http://adsabs.harvard.edu/abs/2012ApJ...757...22C>
- 113 “Type Ia Supernova Properties as a Function of the Distance to the Host Galaxy in the SDSS-II SN Survey,” Galbany, L., R. Miquel, L. Östman, P. J. Brown, D. Cinabro, C. B. D’Andrea, J. Frieman, **S. W. Jha**, J. Marriner, R. C. Nichol, J. Nordin, M. D. Olmstead, M. Sako, D. P. Schneider, M. Smith, J. Sollerman, K. Pan, S. Snedden, D. Bizyaev, H. Brewington,

- E. Malanushenko, V. Malanushenko, D. Oravetz, A. Simmons, and A. Shelden, 2012, *ApJ*, 755, 125  
<https://doi.org/10.1088/0004-637X/755/2/125>  
<http://adsabs.harvard.edu/abs/2012ApJ...755..125G>
- 112 “The SDSS-II Supernova Survey: Parameterizing the Type Ia Supernova Rate as a Function of Host Galaxy Properties,” Smith, M., R. C. Nichol, B. Dilday, J. Marriner, R. Kessler, B. Bassett, D. Cinabro, J. Frieman, P. Garnavich, **S. W. Jha**, H. Lampeitl, M. Sako, D. P. Schneider, and J. Sollerman, 2012, *ApJ*, 755, 61  
<https://doi.org/10.1088/0004-637X/755/1/61>  
<http://adsabs.harvard.edu/abs/2012ApJ...755...61S>
- 111 “The Infrared Light Curve of SN 2011fe in M101 and the Distance to M101,” Matheson, T., R. R. Joyce, L. E. Allen, A. Saha, D. R. Silva, W. M. Wood-Vasey, J. J. Adams, R. E. Anderson, T. L. Beck, M. C. Bentz, M. A. Bershad, W. S. Binkert, K. Butler, M. A. Camarata, A. Eigenbrot, M. Everett, J. S. Gallagher, P. M. Garnavich, E. Glikman, D. Harbeck, J. R. Hargis, H. Herbst, E. P. Horch, S. B. Howell, **S. Jha**, J. F. Kaczmarek, P. Knezek, E. Manne-Nicholas, R. D. Mathieu, M. Meixner, K. Milliman, J. Power, J. Rajagopal, K. Reetz, K. L. Rhode, A. Schechtman-Rook, M. E. Schwamb, H. Schweiker, B. Simmons, J. D. Simon, D. Summers, M. D. Young, A. Weyant, E. M. Wilcots, G. Will, and D. Williams, 2012, *ApJ*, 754, 19  
<https://doi.org/10.1088/0004-637X/754/1/19>  
<http://adsabs.harvard.edu/abs/2012ApJ...754...19M>
- 110 “A Precision Photometric Comparison between SDSS-II and CSP Type Ia Supernova Data,” Mosher, J., M. Sako, L. Corlies, G. Folatelli, J. Frieman, J. Holtzman, **S. W. Jha**, R. Kessler, J. Marriner, M. M. Phillips, M. Stritzinger, N. Morrell, and D. P. Schneider, 2012, *AJ*, 144, 17  
<https://doi.org/10.1088/0004-6256/144/1/17>  
<http://adsabs.harvard.edu/abs/2012AJ....144...17M>
- 109 “The Spectroscopic Diversity of Type Ia Supernovae,” Blondin, S., T. Matheson, R. P. Kirshner, K. S. Mandel, P. Berlind, M. Calkins, P. Challis, P. M. Garnavich, **S. W. Jha**, M. Modjaz, A. G. Riess, and B. P. Schmidt, 2012, *AJ*, 143, 126  
<https://doi.org/10.1088/0004-6256/143/5/126>  
<http://adsabs.harvard.edu/abs/2012AJ....143..126B>
- 108 “A Mismatch in the Ultraviolet Spectra between Low-redshift and Intermediate-redshift Type Ia Supernovae as a Possible Systematic Uncertainty for Supernova Cosmology,” Foley, R. J., A. V. Filippenko, R. Kessler, B. Bassett, J. A. Frieman, P. M. Garnavich, **S. W. Jha**, K. Konishi, H. Lampeitl, A. G. Riess, M. Sako, D. P. Schneider, J. Sollerman, and M. Smith, 2012, *AJ*, 143, 113  
<https://doi.org/10.1088/0004-6256/143/5/113>  
<http://adsabs.harvard.edu/abs/2012AJ....143..113F>
- 107 “The Cluster Lensing and Supernova Survey with Hubble: An Overview,” Postman, M., D. Coe, N. Benítez, L. Bradley, T. Broadhurst, M. Donahue, H. Ford, O. Graur, G. Graves,

S. Jouvel, A. Koekemoer, D. Lemze, E. Medezinski, A. Molino, L. Moustakas, S. Ogaz, A. Riess, S. Rodney, P. Rosati, K. Umetsu, W. Zheng, A. Zitrin, M. Bartelmann, R. Bouwens, N. Czakon, S. Golwala, O. Host, L. Infante, **S. Jha**, Y. Jimenez-Teja, D. Kelson, O. Lahav, R. Lazkoz, D. Maoz, C. McCully, P. Melchior, M. Meneghetti, J. Merten, J. Moustakas, M. Nonino, B. Patel, E. Regös, J. Sayers, S. Seitz, and A. Van der Wel, 2012, *ApJS*, 199, 25  
<https://doi.org/10.1088/0067-0049/199/2/25>  
<http://adsabs.harvard.edu/abs/2012ApJS...199...25P>

- 106 “Evidence for Type Ia Supernova Diversity from Ultraviolet Observations with the Hubble Space Telescope,” Wang, X., L. Wang, A. V. Filippenko, E. Baron, M. Kromer, D. Jack, T. Zhang, G. Aldering, P. Antilogus, W. D. Arnett, D. Baade, B. J. Barris, S. Benetti, P. Bouchet, A. S. Burrows, R. Canal, E. Cappellaro, R. G. Carlberg, E. di Carlo, P. J. Challis, A. P. S. Crotts, J. I. Danziger, M. Della Valle, M. Fink, R. J. Foley, C. Fransson, A. Gal-Yam, P. M. Garnavich, C. L. Gerardy, G. Goldhaber, M. Hamuy, W. Hillebrandt, P. Höflich, S. T. Holland, D. E. Holz, J. P. Hughes, D. J. Jeffery, **S. W. Jha**, D. Kasen, A. M. Khokhlov, R. P. Kirshner, R. A. Knop, C. Kozma, K. Krisciunas, B. C. Lee, B. Leibundgut, E. J. Lentz, D. C. Leonard, W. H. G. Lewin, W. Li, M. Livio, P. Lundqvist, D. Maoz, T. Matheson, P. A. Mazzali, P. Meikle, G. Miknaitis, P. A. Milne, S. W. Mochacki, K. Nomoto, P. E. Nugent, E. S. Oran, N. Panagia, S. Perlmutter, M. M. Phillips, P. Pinto, D. Poznanski, C. J. Pritchett, M. Reinecke, A. G. Riess, P. Ruiz-Lapuente, R. A. Scalzo, E. M. Schlegel, B. P. Schmidt, J. Siegrist, A. M. Soderberg, J. Sollerman, G. Sonneborn, A. Spadafora, J. Spyromilio, R. A. Sramek, S. G. Starrfield, L. G. Strolger, N. B. Suntzeff, R. C. Thomas, J. L. Tonry, A. Tornambe, J. W. Truran, M. Turatto, M. Turner, S. D. Van Dyk, K. W. Weiler, J. C. Wheeler, M. Wood-Vasey, S. E. Woosley, and H. Yamaoka, 2012, *ApJ*, 749, 126  
<https://doi.org/10.1088/0004-637X/749/2/126>  
<http://adsabs.harvard.edu/abs/2012ApJ...749...126W>

- 105 “CLASH: New Multiple Images Constraining the Inner Mass Profile of MACS J1206.2-0847,” Zitrin, A., P. Rosati, M. Nonino, C. Grillo, M. Postman, D. Coe, S. Seitz, T. Eichner, T. Broadhurst, S. Jouvel, I. Balestra, A. Mercurio, M. Scodeggio, N. Benítez, L. Bradley, H. Ford, O. Host, Y. Jimenez-Teja, A. Koekemoer, W. Zheng, M. Bartelmann, R. Bouwens, O. Czoske, M. Donahue, O. Graur, G. Graves, L. Infante, **S. Jha**, D. Kelson, O. Lahav, R. Lazkoz, D. Lemze, M. Lombardi, D. Maoz, C. McCully, E. Medezinski, P. Melchior, M. Meneghetti, J. Merten, A. Molino, L. A. Moustakas, S. Ogaz, B. Patel, E. Regoes, A. Riess, S. Rodney, K. Umetsu, and A. Van der Wel, 2012, *ApJ*, 749, 97  
<https://doi.org/10.1088/0004-637X/749/2/97>  
<http://adsabs.harvard.edu/abs/2012ApJ...749...97Z>

- 104 “A Type Ia Supernova at Redshift 1.55 in Hubble Space Telescope Infrared Observations from CANDELS,” Rodney, S. A., A. G. Riess, T. Dahlen, L.-G. Strolger, H. C. Ferguson, J. Hjorth, T. F. Frederiksen, B. J. Weiner, B. Mobasher, S. Casertano, D. O. Jones, P. Challis, S. M. Faber, A. V. Filippenko, P. Garnavich, O. Graur, N. A. Grogin, B. Hayden, **S. W. Jha**, R. P. Kirshner, D. Kocevski, A. Koekemoer, C. McCully, B. Patel, A. Rajan, and C. Scarlata, 2012, *ApJ*, 746,

<https://doi.org/10.1088/0004-637X/746/1/5>

<http://adsabs.harvard.edu/abs/2012ApJ...746....5R>

- 103 “Exclusion of a luminous red giant as a companion star to the progenitor of supernova SN 2011fe,” Li, W., J. S. Bloom, P. Podsiadlowski, A. A. Miller, S. B. Cenko, **S. W. Jha**, M. Sullivan, D. A. Howell, P. E. Nugent, N. R. Butler, E. O. Ofek, M. M. Kasliwal, J. W. Richards, A. Stockton, H.-Y. Shih, L. Bildsten, M. M. Shara, J. Bibby, A. V. Filippenko, M. Ganeshalingam, J. M. Silverman, S. R. Kulkarni, N. M. Law, D. Poznanski, R. M. Quimby, C. McCully, B. Patel, K. Maguire, and K. J. Shen, 2011, *Nature*, 480, 348-350  
<https://doi.org/10.1038/nature10646>  
<http://adsabs.harvard.edu/abs/2011Natur.480..348L>
- 102 “CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey—The Hubble Space Telescope Observations, Imaging Data Products, and Mosaics,” Koekemoer, A. M., S. M. Faber, H. C. Ferguson, N. A. Grogin, D. D. Kocevski, D. C. Koo, K. Lai, J. M. Lotz, R. A. Lucas, E. J. McGrath, S. Ogaz, A. Rajan, A. G. Riess, S. A. Rodney, L. Strolger, S. Casertano, M. Castellano, T. Dahlen, M. Dickinson, T. Dolch, A. Fontana, M. Giavalisco, A. Grazian, Y. Guo, N. P. Hathi, K.-H. Huang, A. van der Wel, H.-J. Yan, V. Acquaviva, D. M. Alexander, O. Almaini, M. L. N. Ashby, M. Barden, E. F. Bell, F. Bournaud, T. M. Brown, K. I. Caputi, P. Cassata, P. J. Challis, R.-R. Chary, E. Cheung, M. Cirasuolo, C. J. Conselice, A. Roshan Cooray, D. J. Croton, E. Daddi, R. Davé, D. F. de Mello, L. de Ravel, A. Dekel, J. L. Donley, J. S. Dunlop, A. A. Dutton, D. Elbaz, G. G. Fazio, A. V. Filippenko, S. L. Finkelstein, C. Frazer, J. P. Gardner, P. M. Garnavich, E. Gawiser, R. Gruetzbauch, W. G. Hartley, B. Häussler, J. Herrington, P. F. Hopkins, J.-S. Huang, **S. W. Jha**, A. Johnson, J. S. Kartaltepe, A. A. Khostovan, R. P. Kirshner, C. Lani, K.-S. Lee, W. Li, P. Madau, P. J. McCarthy, D. H. McIntosh, R. J. McLure, C. McPartland, B. Mobasher, H. Moreira, A. Mortlock, L. A. Moustakas, M. Mozena, K. Nandra, J. A. Newman, J. L. Nielsen, S. Niemi, K. G. Noeske, C. J. Papovich, L. Pentericci, A. Pope, J. R. Primack, S. Ravindranath, N. A. Reddy, A. Renzini, H.-W. Rix, A. R. Robaina, D. J. Rosario, P. Rosati, S. Salimbeni, C. Scarlata, B. Siana, L. Simard, J. Smidt, D. Snyder, R. S. Somerville, H. Spinrad, A. N. Straughn, O. Telford, H. I. Teplitz, J. R. Trump, C. Vargas, C. Villforth, C. R. Wagner, P. Wandro, R. H. Wechsler, B. J. Weiner, T. Wiklind, V. Wild, G. Wilson, S. Wuyts, and M. S. Yun, 2011, *ApJS*, 197, 36  
<https://doi.org/10.1088/0067-0049/197/2/36>  
<http://adsabs.harvard.edu/abs/2011ApJS...197...36K>
- 101 “CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey,” Grogin, N. A., D. D. Kocevski, S. M. Faber, H. C. Ferguson, A. M. Koekemoer, A. G. Riess, V. Acquaviva, D. M. Alexander, O. Almaini, M. L. N. Ashby, M. Barden, E. F. Bell, F. Bournaud, T. M. Brown, K. I. Caputi, S. Casertano, P. Cassata, M. Castellano, P. Challis, R.-R. Chary, E. Cheung, M. Cirasuolo, C. J. Conselice, A. Roshan Cooray, D. J. Croton, E. Daddi, T. Dahlen, R. Davé, D. F. de Mello, A. Dekel, M. Dickinson, T. Dolch, J. L. Donley, J. S. Dun-

lop, A. A. Dutton, D. Elbaz, G. G. Fazio, A. V. Filippenko, S. L. Finkelstein, A. Fontana, J. P. Gardner, P. M. Garnavich, E. Gawiser, M. Giavalisco, A. Grazian, Y. Guo, N. P. Hathi, B. Häussler, P. F. Hopkins, J.-S. Huang, K.-H. Huang, **S. W. Jha**, J. S. Kartaltepe, R. P. Kirshner, D. C. Koo, K. Lai, K.-S. Lee, W. Li, J. M. Lotz, R. A. Lucas, P. Madau, P. J. McCarthy, E. J. McGrath, D. H. McIntosh, R. J. McLure, B. Mobasher, L. A. Moustakas, M. Mozena, K. Nandra, J. A. Newman, S.-M. Niemi, K. G. Noeske, C. J. Papovich, L. Pentericci, A. Pope, J. R. Primack, A. Rajan, S. Ravindranath, N. A. Reddy, A. Renzini, H.-W. Rix, A. R. Robaina, S. A. Rodney, D. J. Rosario, P. Rosati, S. Salimbeni, C. Scarlata, B. Siana, L. Simard, J. Smidt, R. S. Somerville, H. Spinrad, A. N. Straughn, L.-G. Strolger, O. Telford, H. I. Teplitz, J. R. Trump, A. van der Wel, C. Villforth, R. H. Wechsler, B. J. Weiner, T. Wiklind, V. Wild, G. Wilson, S. Wuyts, H.-J. Yan, and M. S. Yun, 2011, *ApJS*, 197, 35

<https://doi.org/10.1088/0067-0049/197/2/35>

<http://adsabs.harvard.edu/abs/2011ApJS...197...35G>

- 100 “Spectroscopic Properties of Star-forming Host Galaxies and Type Ia Supernova Hubble Residuals in a nearly Unbiased Sample,” D’Andrea, C. B., R. R. Gupta, M. Sako, M. Morris, R. C. Nichol, P. J. Brown, H. Campbell, M. D. Olmstead, J. A. Frieman, P. Garnavich, **S. W. Jha**, R. Kessler, H. Lampeitl, J. Marriner, D. P. Schneider, and M. Smith, 2011, *ApJ*, 743, 172

<https://doi.org/10.1088/0004-637X/743/2/172>

<http://adsabs.harvard.edu/abs/2011ApJ...743..172D>

- 99 “The Cluster Lensing and Supernova Survey with Hubble (CLASH): Strong-lensing Analysis of A383 from 16-band HST/WFC3/ACS Imaging,” Zitrin, A., T. Broadhurst, D. Coe, K. Umetsu, M. Postman, N. Benítez, M. Meneghetti, E. Medezinski, S. Jouvel, L. Bradley, A. Koekemoer, W. Zheng, H. Ford, J. Merten, D. Kelson, O. Lahav, D. Lemze, A. Molino, M. Nonino, M. Donahue, P. Rosati, A. Van der Wel, M. Bartelmann, R. Bouwens, O. Graur, G. Graves, O. Host, L. Infante, **S. Jha**, Y. Jimenez-Teja, R. Lazkoz, D. Maoz, C. McCully, P. Melchior, L. A. Moustakas, S. Ogaz, B. Patel, E. Regoes, A. Riess, S. Rodney, and S. Seitz, 2011, *ApJ*, 742, 117

<https://doi.org/10.1088/0004-637X/742/2/117>

<http://adsabs.harvard.edu/abs/2011ApJ...742..117Z>

- 98 “The Massive Progenitor of the Possible Type II-Linear Supernova 2009hd in Messier 66,” Elias-Rosa, N., S. D. Van Dyk, W. Li, J. M. Silverman, R. J. Foley, M. Ganeshalingam, J. C. Mauerhan, E. Kankare, **S. Jha**, A. V. Filippenko, J. E. Beckman, E. Berger, J.-C. Cuillandre, and N. Smith, 2011, *ApJ*, 742, 6

<https://doi.org/10.1088/0004-637X/742/1/6>

<http://adsabs.harvard.edu/abs/2011ApJ...742....6E>

- 97 “Improved Constraints on Type Ia Supernova Host Galaxy Properties Using Multi-wavelength Photometry and Their Correlations with Supernova Properties,” Gupta, R. R., C. B. D’Andrea, M. Sako, C. Conroy, M. Smith, B. Bassett, J. A. Frieman, P. M. Garnavich, **S. W. Jha**, R. Kessler, H. Lampeitl, J. Marriner, R. C. Nichol, and D. P. Schneider, 2011, *ApJ*, 740,

92 (erratum: ApJ 741, 127)

<https://doi.org/10.1088/0004-637X/740/2/92>

<http://adsabs.harvard.edu/abs/2011ApJ...740...92G>

- 96 “Nearby supernova rates from the Lick Observatory Supernova Search - II. The observed luminosity functions and fractions of supernovae in a complete sample,” Li, W., J. Leaman, R. Chornock, A. V. Filippenko, D. Poznanski, M. Ganeshalingam, X. Wang, M. Modjaz, **S. Jha**, R. J. Foley, and N. Smith, 2011, MNRAS, 412, 1441-1472  
<https://doi.org/10.1111/j.1365-2966.2011.18160.x>  
<http://adsabs.harvard.edu/abs/2011MNRAS.412.1441L>
- 95 “A 3% Solution: Determination of the Hubble Constant with the Hubble Space Telescope and Wide Field Camera 3,” Riess, A. G., L. Macri, S. Casertano, H. Lampeitl, H. C. Ferguson, A. V. Filippenko, **S. W. Jha**, W. Li, R. Chornock, and J. M. Silverman, 2011, ApJ, 730, 119 (errata: ApJ 732, 129; ApJ 752, 76)  
<https://doi.org/10.1088/0004-637X/730/2/119>  
<http://adsabs.harvard.edu/abs/2011ApJ...730..119R>
- 94 “Results from the Supernova Photometric Classification Challenge,” Kessler, R., B. Bassett, P. Belov, V. Bhatnagar, H. Campbell, A. Conley, J. A. Frieman, A. Glazov, S. González-Gaitán, R. Hlozek, **S. Jha**, S. Kuhlmann, M. Kunz, H. Lampeitl, A. Mahabal, J. Newling, R. C. Nichol, D. Parkinson, N. Sajeeth Philip, D. Poznanski, J. W. Richards, S. A. Rodney, M. Sako, D. P. Schneider, M. Smith, M. Stritzinger, and M. Varughese, 2010, PASP, 122, 1415-1431  
<https://doi.org/10.1086/657607>  
<http://adsabs.harvard.edu/abs/2010PASP..122.1415K>
- 93 “Single or Double Degenerate Progenitors? Searching for Shock Emission in the SDSS-II Type Ia Supernovae,” Hayden, B. T., P. M. Garnavich, D. Kasen, B. Dilday, J. A. Frieman, **S. W. Jha**, H. Lampeitl, R. C. Nichol, M. Sako, D. P. Schneider, M. Smith, J. Sollerman, and J. C. Wheeler, 2010, ApJ, 722, 1691-1698  
<https://doi.org/10.1088/0004-637X/722/2/1691>  
<http://adsabs.harvard.edu/abs/2010ApJ...722.1691H>
- 92 “The Effect of Host Galaxies on Type Ia Supernovae in the SDSS-II Supernova Survey,” Lampeitl, H., M. Smith, R. C. Nichol, B. Bassett, D. Cinabro, B. Dilday, R. J. Foley, J. A. Frieman, P. M. Garnavich, A. Goobar, M. Im, **S. W. Jha**, J. Marriner, R. Miquel, J. Nordin, L. Östman, A. G. Riess, M. Sako, D. P. Schneider, J. Sollerman, and M. Stritzinger, 2010, ApJ, 722, 566-576  
<https://doi.org/10.1088/0004-637X/722/1/566>  
<http://adsabs.harvard.edu/abs/2010ApJ...722..566L>
- 91 “The Subluminous Supernova 2007qd: A Missing Link in a Family of Low-luminosity Type Ia Supernovae,” McClelland, C. M., P. M. Garnavich, L. Galbany, R. Miquel, R. J. Foley,



- A. V. Filippenko, B. Bassett, J. C. Wheeler, A. Goobar, **S. W. Jha**, M. Sako, J. A. Frieman, J. Sollerman, J. Vinko, and D. P. Schneider, 2010, *ApJ*, 720, 704-716  
<https://doi.org/10.1088/0004-637X/720/1/704>  
<http://adsabs.harvard.edu/abs/2010ApJ...720..704M>
- 90 “Photometric Estimates of Redshifts and Distance Moduli for Type Ia Supernovae,” Kessler, R., D. Cinabro, B. Bassett, B. Dilday, J. A. Frieman, P. M. Garnavich, **S. Jha**, J. Marriner, R. C. Nichol, M. Sako, M. Smith, J. P. Bernstein, D. Bizyaev, A. Goobar, S. Kuhlmann, D. P. Schneider, and M. Stritzinger, 2010, *ApJ*, 717, 40-57  
<https://doi.org/10.1088/0004-637X/717/1/40>  
<http://adsabs.harvard.edu/abs/2010ApJ...717...40K>
- 89 “A Measurement of the Rate of Type Ia Supernovae in Galaxy Clusters from the SDSS-II Supernova Survey,” Dilday, B., B. Bassett, A. Becker, R. Bender, F. Castander, D. Cinabro, J. A. Frieman, L. Galbany, P. Garnavich, A. Goobar, U. Hopp, Y. Ihara, **S. W. Jha**, R. Kessler, H. Lampeitl, J. Marriner, R. Miquel, M. Mollá, R. C. Nichol, J. Nordin, A. G. Riess, M. Sako, D. P. Schneider, M. Smith, J. Sollerman, J. C. Wheeler, L. Östman, D. Bizyaev, H. Brewington, E. Malanushenko, V. Malanushenko, D. Oravetz, K. Pan, A. Simmons, and S. Snedden, 2010, *ApJ*, 715, 1021-1035  
<https://doi.org/10.1088/0004-637X/715/2/1021>  
<http://adsabs.harvard.edu/abs/2010ApJ...715.1021D>
- 88 “Measurements of the Rate of Type Ia Supernovae at Redshift  $< 0.3$  from the Sloan Digital Sky Survey II Supernova Survey,” Dilday, B., M. Smith, B. Bassett, A. Becker, R. Bender, F. Castander, D. Cinabro, A. V. Filippenko, J. A. Frieman, L. Galbany, P. M. Garnavich, A. Goobar, U. Hopp, Y. Ihara, **S. W. Jha**, R. Kessler, H. Lampeitl, J. Marriner, R. Miquel, M. Mollá, R. C. Nichol, J. Nordin, A. G. Riess, M. Sako, D. P. Schneider, J. Sollerman, J. C. Wheeler, L. Östman, D. Bizyaev, H. Brewington, E. Malanushenko, V. Malanushenko, D. Oravetz, K. Pan, A. Simmons, and S. Snedden, 2010, *ApJ*, 713, 1026-1036  
<https://doi.org/10.1088/0004-637X/713/2/1026>  
<http://adsabs.harvard.edu/abs/2010ApJ...713.1026D>
- 87 “The Rise and Fall of Type Ia Supernova Light Curves in the SDSS-II Supernova Survey,” Hayden, B. T., P. M. Garnavich, R. Kessler, J. A. Frieman, **S. W. Jha**, B. Bassett, D. Cinabro, B. Dilday, D. Kasen, J. Marriner, R. C. Nichol, A. G. Riess, M. Sako, D. P. Schneider, M. Smith, and J. Sollerman, 2010, *ApJ*, 712, 350-366  
<https://doi.org/10.1088/0004-637X/712/1/350>  
<http://adsabs.harvard.edu/abs/2010ApJ...712..350H>
- 86 “First-year Sloan Digital Sky Survey-II supernova results: consistency and constraints with other intermediate-redshift data sets,” Lampeitl, H., R. C. Nichol, H.-J. Seo, T. Giannantonio, C. Shapiro, B. Bassett, W. J. Percival, T. M. Davis, B. Dilday, J. Frieman, P. Garnavich, M. Sako, M. Smith, J. Sollerman, A. C. Becker, D. Cinabro, A. V. Filippenko, R. J. Foley, C. J. Hogan, J. A. Holtzman, **S. W. Jha**, K. Konishi, J. Marriner, M. W. Richmond, A. G. Riess,

- D. P. Schneider, M. Stritzinger, K. J. van der Heyden, J. T. Vanderplas, J. C. Wheeler, and C. Zheng, 2010, *MNRAS*, 401, 2331-2342  
<https://doi.org/10.1111/j.1365-2966.2009.15851.x>  
<http://adsabs.harvard.edu/abs/2010MNRAS.401.2331L>
- 85 “Type II-P Supernovae from the SDSS-II Supernova Survey and the Standardized Candle Method,” D’Andrea, C. B., M. Sako, B. Dilday, J. A. Frieman, J. Holtzman, R. Kessler, K. Konishi, D. P. Schneider, J. Sollerman, J. C. Wheeler, N. Yasuda, D. Cinabro, **S. Jha**, R. C. Nichol, H. Lampeitl, M. Smith, D. W. Atlee, B. Bassett, F. J. Castander, A. Goobar, R. Miquel, J. Nordin, L. Östman, J. L. Prieto, R. Quimby, A. G. Riess, and M. Stritzinger, 2010, *ApJ*, 708, 661-674  
<https://doi.org/10.1088/0004-637X/708/1/661>  
<http://adsabs.harvard.edu/abs/2010ApJ...708..661D>
- 84 “First-Year Sloan Digital Sky Survey-II Supernova Results: Hubble Diagram and Cosmological Parameters,” Kessler, R., A. C. Becker, D. Cinabro, J. Vanderplas, J. A. Frieman, J. Marriner, T. M. Davis, B. Dilday, J. Holtzman, **S. W. Jha**, H. Lampeitl, M. Sako, M. Smith, C. Zheng, R. C. Nichol, B. Bassett, R. Bender, D. L. Depoy, M. Doi, E. Elson, A. V. Filippenko, R. J. Foley, P. M. Garnavich, U. Hopp, Y. Ihara, W. Ketzeback, W. Kollatschny, K. Konishi, J. L. Marshall, R. J. McMillan, G. Miknaitis, T. Morokuma, E. Mörtzell, K. Pan, J. L. Prieto, M. W. Richmond, A. G. Riess, R. Romani, D. P. Schneider, J. Sollerman, N. Takanashi, K. Tokita, K. van der Heyden, J. C. Wheeler, N. Yasuda, and D. York, 2009, *ApJS*, 185, 32-84  
<https://doi.org/10.1088/0067-0049/185/1/32>  
<http://adsabs.harvard.edu/abs/2009ApJS..185...32K>
- 83 “SNANA: A Public Software Package for Supernova Analysis,” Kessler, R., J. P. Bernstein, D. Cinabro, B. Dilday, J. A. Frieman, **S. Jha**, S. Kuhlmann, G. Miknaitis, M. Sako, M. Taylor, and J. Vanderplas, 2009, *PASP*, 121, 1028-1035  
<https://doi.org/10.1086/605984>  
<http://adsabs.harvard.edu/abs/2009PASP..121.1028K>
- 82 “Improved Dark Energy Constraints from ~100 New CfA Supernova Type Ia Light Curves,” Hicken, M., W. M. Wood-Vasey, S. Blondin, P. Challis, **S. Jha**, P. L. Kelly, A. Rest, and R. P. Kirshner, 2009, *ApJ*, 700, 1097-1140  
<https://doi.org/10.1088/0004-637X/700/2/1097>  
<http://adsabs.harvard.edu/abs/2009ApJ...700.1097H>
- 81 “Cepheid Calibrations of Modern Type Ia Supernovae: Implications for the Hubble Constant,” Riess, A. G., L. Macri, W. Li, H. Lampeitl, S. Casertano, H. C. Ferguson, A. V. Filippenko, **S. W. Jha**, R. Chornock, L. Greenhill, M. Mutchler, M. Ganeshalingham, and M. Hicken, 2009, *ApJS*, 183, 109-141  
<https://doi.org/10.1088/0067-0049/183/1/109>  
<http://adsabs.harvard.edu/abs/2009ApJS..183..109R>

- 80 “CfA3: 185 Type Ia Supernova Light Curves from the CfA,” Hicken, M., P. Challis, **S. Jha**, R. P. Kirshner, T. Matheson, M. Modjaz, A. Rest, W. M. Wood-Vasey, G. Bakos, E. J. Barton, P. Berlind, A. Bragg, C. Briceño, W. R. Brown, N. Caldwell, M. Calkins, R. Cho, L. Ciupik, M. Contreras, K.-C. Dendy, A. Dosaj, N. Durham, K. Eriksen, G. Esquerdo, M. Everett, E. Falco, J. Fernandez, A. Gaba, P. Garnavich, G. Graves, P. Green, T. Groner, C. Hergenrother, M. J. Holman, V. Hradecky, J. Huchra, B. Hutchison, D. Jerius, A. Jordan, R. Kilgard, M. Krauss, K. Luhman, L. Macri, D. Marrone, J. McDowell, D. McIntosh, B. McNamara, T. Megeath, B. Mochejska, D. Munoz, J. Muzerolle, O. Naranjo, G. Narayan, M. Pahre, W. Peters, D. Peterson, K. Rines, B. Ripman, A. Roussanova, R. Schild, A. Sicilia-Aguilar, J. Sokoloski, K. Smalley, A. Smith, T. Spahr, K. Z. Stanek, P. Barmby, S. Blondin, C. W. Stubbs, A. Szentgyorgyi, M. A. P. Torres, A. Vaz, A. Vikhlinin, Z. Wang, M. Westover, D. Woods, and P. Zhao, 2009, *ApJ*, 700, 331-357  
<https://doi.org/10.1088/0004-637X/700/1/331>  
<http://adsabs.harvard.edu/abs/2009ApJ...700..331H>
- 79 “A Redetermination of the Hubble Constant with the Hubble Space Telescope from a Differential Distance Ladder,” Riess, A. G., L. Macri, S. Casertano, M. Sosey, H. Lampeitl, H. C. Ferguson, A. V. Filippenko, **S. W. Jha**, W. Li, R. Chornock, and D. Sarkar, 2009, *ApJ*, 699, 539-563  
<https://doi.org/10.1088/0004-637X/699/1/539>  
<http://adsabs.harvard.edu/abs/2009ApJ...699..539R>
- 78 “Spectroscopy of High-Redshift Supernovae from the Essence Project: The First Four Years,” Foley, R. J., T. Matheson, S. Blondin, R. Chornock, J. M. Silverman, P. Challis, A. Clocchiatti, A. V. Filippenko, R. P. Kirshner, B. Leibundgut, J. Sollerman, J. Spyromilio, J. L. Tonry, T. M. Davis, P. M. Garnavich, **S. W. Jha**, K. Krisciunas, W. Li, G. Pignata, A. Rest, A. G. Riess, B. P. Schmidt, R. C. Smith, C. W. Stubbs, B. E. Tucker, and W. M. Wood-Vasey, 2009, *AJ*, 137, 3731-3742  
<https://doi.org/10.1088/0004-6256/137/4/3731>  
<http://adsabs.harvard.edu/abs/2009AJ....137.3731F>
- 77 “The Sloan Digital Sky Survey-II: Photometry and Supernova Ia Light Curves from the 2005 Data,” Holtzman, J. A., J. Marriner, R. Kessler, M. Sako, B. Dilday, J. A. Frieman, D. P. Schneider, B. Bassett, A. Becker, D. Cinabro, F. DeJongh, D. L. Depoy, M. Doi, P. M. Garnavich, C. J. Hogan, **S. Jha**, K. Konishi, H. Lampeitl, J. L. Marshall, D. McGinnis, G. Miknaitis, R. C. Nichol, J. L. Prieto, A. G. Riess, M. W. Richmond, R. Romani, M. Smith, N. Takanashi, K. Tokita, K. van der Heyden, N. Yasuda, and C. Zheng, 2008, *AJ*, 136, 2306-2320  
<https://doi.org/10.1088/0004-6256/136/6/2306>  
<http://adsabs.harvard.edu/abs/2008AJ....136.2306H>
- 76 “Luminosity Indicators in the Ultraviolet Spectra of Type Ia Supernovae,” Foley, R. J., A. V. Filippenko, and **S. W. Jha**, 2008, *ApJ*, 686, 117-126

<https://doi.org/10.1086/590467>  
<http://adsabs.harvard.edu/abs/2008ApJ...686..117F>

- 75 “Supernovae in Early-Type Galaxies: Directly Connecting Age and Metallicity with Type Ia Luminosity,” Gallagher, J. S., P. M. Garnavich, N. Caldwell, R. P. Kirshner, **S. W. Jha**, W. Li, M. Ganeshalingam, and A. V. Filippenko, 2008, *ApJ*, 685, 752-766  
<https://doi.org/10.1086/590659>  
<http://adsabs.harvard.edu/abs/2008ApJ...685..752G>
- 74 “Constraining Cosmic Evolution of Type Ia Supernovae,” Foley, R. J., A. V. Filippenko, C. Aguilera, A. C. Becker, S. Blondin, P. Challis, A. Clocchiatti, R. Covarrubias, T. M. Davis, P. M. Garnavich, **S. W. Jha**, R. P. Kirshner, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, A. Miceli, G. Miknaitis, G. Pignata, A. Rest, A. G. Riess, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. W. Stubbs, N. B. Suntzeff, J. L. Tonry, W. M. Wood-Vasey, and A. Zenteno, 2008, *ApJ*, 684, 68-87  
<https://doi.org/10.1086/589612>  
<http://adsabs.harvard.edu/abs/2008ApJ...684...68F>
- 73 “Time Dilation in Type Ia Supernova Spectra at High Redshift,” Blondin, S., T. M. Davis, K. Krisciunas, B. P. Schmidt, J. Sollerman, W. M. Wood-Vasey, A. C. Becker, P. Challis, A. Clocchiatti, G. Damke, A. V. Filippenko, R. J. Foley, P. M. Garnavich, **S. W. Jha**, R. P. Kirshner, B. Leibundgut, W. Li, T. Matheson, G. Miknaitis, G. Narayan, G. Pignata, A. Rest, A. G. Riess, J. M. Silverman, R. C. Smith, J. Spyromilio, M. Stritzinger, C. W. Stubbs, N. B. Suntzeff, J. L. Tonry, B. E. Tucker, and A. Zenteno, 2008, *ApJ*, 682, 724-736  
<https://doi.org/10.1086/589568>  
<http://adsabs.harvard.edu/abs/2008ApJ...682..724B>
- 72 “Exploring the Outer Solar System with the ESSENCE Supernova Survey,” Becker, A. C., K. Arraki, N. A. Kaib, W. M. Wood-Vasey, C. Aguilera, J. W. Blackman, S. Blondin, P. Challis, A. Clocchiatti, R. Covarrubias, G. Damke, T. M. Davis, A. V. Filippenko, R. J. Foley, A. Garg, P. M. Garnavich, M. Hicken, **S. Jha**, R. P. Kirshner, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, A. Miceli, G. Miknaitis, G. Narayan, G. Pignata, J. L. Prieto, A. Rest, A. G. Riess, M. E. Salvo, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. W. Stubbs, N. B. Suntzeff, J. L. Tonry, and A. Zenteno, 2008, *ApJ*, 682, L53  
<https://doi.org/10.1086/590429>  
<http://adsabs.harvard.edu/abs/2008ApJ...682L..53B>
- 71 “A Measurement of the Rate of Type Ia Supernovae at Redshift  $z \simeq 0.1$  from the First Season of the SDSS-II Supernova Survey,” Dilday, B., R. Kessler, J. A. Frieman, J. Holtzman, J. Mariner, G. Miknaitis, R. C. Nichol, R. Romani, M. Sako, B. Bassett, A. Becker, D. Cinabro, F. DeJongh, D. L. Depoy, M. Doi, P. M. Garnavich, C. J. Hogan, **S. Jha**, K. Konishi, H. Lampeitl, J. L. Marshall, D. McGinnis, J. L. Prieto, A. G. Riess, M. W. Richmond, D. P. Schneider, M. Smith, N. Takanashi, K. Tokita, K. van der Heyden, N. Yasuda, C. Zheng, J. Barentine, H. Brewington, C. Choi, A. Crotts, J. Dembicky, M. Harvanek, M. Im, W. Ketzeback,

S. J. Kleinman, J. Krzesiński, D. C. Long, E. Malanushenko, V. Malanushenko, R. J. McMillan, A. Nitta, K. Pan, G. Saurage, S. A. Snedden, S. Watters, J. C. Wheeler, and D. York, 2008, *ApJ*, 682, 262-282

<https://doi.org/10.1086/587733>

<http://adsabs.harvard.edu/abs/2008ApJ...682..262D>

- 70 “Two More Candidate AM Canum Venaticorum (AM CVn) Binaries from the Sloan Digital Sky Survey,” Anderson, S. F., A. C. Becker, D. Haggard, J. L. Prieto, G. R. Knapp, M. Sako, K. E. Halford, **S. Jha**, B. Martin, J. Holtzman, J. A. Frieman, P. M. Garnavich, S. Hayward, Zcaron;, Ivezić, A. S. Mukadam, B. Sesar, P. Szkody, V. Malanushenko, M. W. Richmond, D. P. Schneider, and D. G. York, 2008, *AJ*, 135, 2108-2113

<https://doi.org/10.1088/0004-6256/135/6/2108>

<http://adsabs.harvard.edu/abs/2008AJ....135.2108A>

- 69 “First-Year Spectroscopy for the Sloan Digital Sky Survey-II Supernova Survey,” Zheng, C., R. W. Romani, M. Sako, J. Marriner, B. Bassett, A. Becker, C. Choi, D. Cinabro, F. DeJongh, D. L. Depoy, B. Dilday, M. Doi, J. A. Frieman, P. M. Garnavich, C. J. Hogan, J. Holtzman, M. Im, **S. Jha**, R. Kessler, K. Konishi, H. Lampeitl, J. L. Marshall, D. McGinnis, G. Miknaitis, R. C. Nichol, J. L. Prieto, A. G. Riess, M. W. Richmond, D. P. Schneider, M. Smith, N. Takanashi, K. Tokita, K. van der Heyden, N. Yasuda, R. J. Assef, J. Barentine, R. Bender, R. D. Blandford, M. Bremer, H. Brewington, C. A. Collins, A. Crotts, J. Dembicky, J. Eastman, A. Edge, E. Elson, M. E. Eyler, A. V. Filippenko, R. J. Foley, S. Frank, A. Goobar, M. Harvanek, U. Hopp, Y. Ihara, S. Kahn, W. Ketzeback, S. J. Kleinman, W. Kollatschny, J. Krzesiński, G. Leloudas, D. C. Long, J. Lucey, E. Malanushenko, V. Malanushenko, R. J. McMillan, C. W. Morgan, T. Morokuma, A. Nitta, L. Ostman, K. Pan, A. K. Romer, G. Saurage, K. Schlesinger, S. A. Snedden, J. Sollerman, M. Stritzinger, L. C. Watson, S. Watters, J. C. Wheeler, and D. York, 2008, *AJ*, 135, 1766-1784

<https://doi.org/10.1088/0004-6256/135/5/1766>

<http://adsabs.harvard.edu/abs/2008AJ....135.1766Z>

- 68 “Optical Spectroscopy of Type Ia Supernovae,” Matheson, T., R. P. Kirshner, P. Challis, **S. Jha**, P. M. Garnavich, P. Berlind, M. L. Calkins, S. Blondin, Z. Balog, A. E. Bragg, N. Caldwell, K. Dendy Concannon, E. E. Falco, G. J. M. Graves, J. P. Huchra, J. Kuraszkiewicz, J. A. Mader, A. Mahdavi, M. Phelps, K. Rines, I. Song, and B. J. Wilkes, 2008, *AJ*, 135, 1598-1615

<https://doi.org/10.1088/0004-6256/135/4/1598>

<http://adsabs.harvard.edu/abs/2008AJ....135.1598M>

- 67 “The Sloan Digital Sky Survey-II Supernova Survey: Search Algorithm and Follow-up Observations,” Sako, M., B. Bassett, A. Becker, D. Cinabro, F. DeJongh, D. L. Depoy, B. Dilday, M. Doi, J. A. Frieman, P. M. Garnavich, C. J. Hogan, J. Holtzman, **S. Jha**, R. Kessler, K. Konishi, H. Lampeitl, J. Marriner, G. Miknaitis, R. C. Nichol, J. L. Prieto, A. G. Riess, M. W. Richmond, R. Romani, D. P. Schneider, M. Smith, M. SubbaRao, N. Takanashi, K. Tokita, K. van der Heyden, N. Yasuda, C. Zheng, J. Barentine, H. Brewington, C. Choi,

J. Dembicky, M. Harnavek, Y. Ihara, M. Im, W. Ketzbeck, S. J. Kleinman, J. Krzesiński, D. C. Long, E. Malanushenko, V. Malanushenko, R. J. McMillan, T. Morokuma, A. Nitta, K. Pan, G. Saurage, and S. A. Snedden, 2008, *AJ*, 135, 348-373

<https://doi.org/10.1088/0004-6256/135/1/348>

<http://adsabs.harvard.edu/abs/2008AJ....135..348S>

- 66 “The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary,” Frieman, J. A., B. Bassett, A. Becker, C. Choi, D. Cinabro, F. DeJongh, D. L. Depoy, B. Dilday, M. Doi, P. M. Garnavich, C. J. Hogan, J. Holtzman, M. Im, **S. Jha**, R. Kessler, K. Konishi, H. Lampeitl, J. Marriner, J. L. Marshall, D. McGinnis, G. Miknaitis, R. C. Nichol, J. L. Prieto, A. G. Riess, M. W. Richmond, R. Romani, M. Sako, D. P. Schneider, M. Smith, N. Takanashi, K. Tokita, K. van der Heyden, N. Yasuda, C. Zheng, J. Adelman-McCarthy, J. Annis, R. J. Assef, J. Barntine, R. Bender, R. D. Blandford, W. N. Boroski, M. Bremer, H. Brewington, C. A. Collins, A. Crofts, J. Dembicky, J. Eastman, A. Edge, E. Edmondson, E. Elson, M. E. Eyler, A. V. Filippenko, R. J. Foley, S. Frank, A. Goobar, T. Gueth, J. E. Gunn, M. Harvanek, U. Hopp, Y. Ihara, Zcaron.; Ivezić, S. Kahn, J. Kaplan, S. Kent, W. Ketzbeck, S. J. Kleinman, W. Kollatschny, R. G. Kron, J. Krzesiński, D. Lamenti, G. Leloudas, H. Lin, D. C. Long, J. Lucey, R. H. Lupton, E. Malanushenko, V. Malanushenko, R. J. McMillan, J. Mendez, C. W. Morgan, T. Morokuma, A. Nitta, L. Ostman, K. Pan, C. M. Rockosi, A. K. Romer, P. Ruiz-Lapuente, G. Saurage, K. Schlesinger, S. A. Snedden, J. Sollerman, C. Stoughton, M. Stritzinger, M. Subba Rao, D. Tucker, P. Vaisanen, L. C. Watson, S. Watters, J. C. Wheeler, B. Yanny, and D. York, 2008, *AJ*, 135, 338-347

<https://doi.org/10.1088/0004-6256/135/1/338>

<http://adsabs.harvard.edu/abs/2008AJ....135..338F>

- 65 “Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes,” Davis, T. M., E. Mörtzell, J. Sollerman, A. C. Becker, S. Blondin, P. Challis, A. Clocchiatti, A. V. Filippenko, R. J. Foley, P. M. Garnavich, **S. Jha**, K. Krisciunas, R. P. Kirshner, B. Leibundgut, W. Li, T. Matheson, G. Miknaitis, G. Pignata, A. Rest, A. G. Riess, B. P. Schmidt, R. C. Smith, J. Spyromilio, C. W. Stubbs, N. B. Suntzeff, J. L. Tonry, W. M. Wood-Vasey, and A. Zenteno, 2007, *ApJ*, 666, 716-725

<https://doi.org/10.1086/519988>

<http://adsabs.harvard.edu/abs/2007ApJ...666..716D>

- 64 “Observational Constraints on the Nature of Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey,” Wood-Vasey, W. M., G. Miknaitis, C. W. Stubbs, **S. Jha**, A. G. Riess, P. M. Garnavich, R. P. Kirshner, C. Aguilera, A. C. Becker, J. W. Blackman, S. Blondin, P. Challis, A. Clocchiatti, A. Conley, R. Covarrubias, T. M. Davis, A. V. Filippenko, R. J. Foley, A. Garg, M. Hicken, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, A. Miceli, G. Narayan, G. Pignata, J. L. Prieto, A. Rest, M. E. Salvo, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, J. L. Tonry, N. B. Suntzeff, and A. Zenteno, 2007, *ApJ*, 666, 694-715

<https://doi.org/10.1086/518642>

<http://adsabs.harvard.edu/abs/2007ApJ...666..694W>

- 63 “The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry,” Miknaitis, G., G. Pignata, A. Rest, W. M. Wood-Vasey, S. Blondin, P. Challis, R. C. Smith, C. W. Stubbs, N. B. Suntzeff, R. J. Foley, T. Matheson, J. L. Tonry, C. Aguilera, J. W. Blackman, A. C. Becker, A. Clocchiatti, R. Covarrubias, T. M. Davis, A. V. Filippenko, A. Garg, P. M. Garnavich, M. Hicken, **S. Jha**, K. Krisciunas, R. P. Kirshner, B. Leibundgut, W. Li, A. Miceli, G. Narayan, J. L. Prieto, A. G. Riess, M. E. Salvo, B. P. Schmidt, J. Sollerman, J. Spyromilio, and A. Zenteno, 2007, *ApJ*, 666, 674-693  
<https://doi.org/10.1086/519986>  
<http://adsabs.harvard.edu/abs/2007ApJ...666..674M>
- 62 “Is There Evidence for a Hubble Bubble? The Nature of Type Ia Supernova Colors and Dust in External Galaxies,” Conley, A., R. G. Carlberg, J. Guy, D. A. Howell, **S. Jha**, A. G. Riess, and M. Sullivan, 2007, *ApJ*, 664, L13-L16  
<https://doi.org/10.1086/520625>  
<http://adsabs.harvard.edu/abs/2007ApJ...664L..13C>
- 61 “The Velocity Field of the Local Universe from Measurements of Type Ia Supernovae,” Haugbølle, T., S. Hannestad, B. Thomsen, J. Fynbo, J. Sollerman, and **S. Jha**, 2007, *ApJ*, 661, 650-659  
<https://doi.org/10.1086/513600>  
<http://adsabs.harvard.edu/abs/2007ApJ...661..650H>
- 60 “The Peculiar SN 2005hk: Do Some Type Ia Supernovae Explode as Deflagrations?” Phillips, M. M., W. Li, J. A. Frieman, S. I. Blinnikov, D. DePoy, J. L. Prieto, P. Milne, C. Contreras, G. Folatelli, N. Morrell, M. Hamuy, N. B. Suntzeff, M. Roth, S. González, W. Krzeminski, A. V. Filippenko, W. L. Freedman, R. Chornock, **S. Jha**, B. F. Madore, S. E. Persson, C. R. Burns, P. Wyatt, D. Murphy, R. J. Foley, M. Ganeshalingam, F. J. D. Serduke, K. Krisciunas, B. Bassett, A. Becker, B. Dilday, J. Eastman, P. M. Garnavich, J. Holtzman, R. Kessler, H. Lampeitl, J. Marriner, S. Frank, J. L. Marshall, G. Miknaitis, M. Sako, D. P. Schneider, K. van der Heyden, and N. Yasuda, 2007, *PASP*, 119, 360-387  
<https://doi.org/10.1086/518372>  
<http://adsabs.harvard.edu/abs/2007PASP...119..360P>
- 59 “Improved Distances to Type Ia Supernovae with Multicolor Light-Curve Shapes: MLCS2k2,” **Jha, S.**, A. G. Riess, and R. P. Kirshner, 2007, *ApJ*, 659, 122-148  
<https://doi.org/10.1086/512054>  
<http://adsabs.harvard.edu/abs/2007ApJ...659..122J>
- 58 “New Hubble Space Telescope Discoveries of Type Ia Supernovae at  $z \geq 1$ : Narrowing Constraints on the Early Behavior of Dark Energy,” Riess, A. G., L.-G. Strolger, S. Casertano, H. C. Ferguson, B. Mobasher, B. Gold, P. J. Challis, A. V. Filippenko, **S. Jha**, W. Li, J. Tonry, R. Foley, R. P. Kirshner, M. Dickinson, E. MacDonald, D. Eisenstein, M. Livio, J. Younger,

- C. Xu, T. Dahlén, and D. Stern, 2007, *ApJ*, 659, 98-121  
<https://doi.org/10.1086/510378>  
<http://adsabs.harvard.edu/abs/2007ApJ...659...98R>
- 57 “Late-Time Spectroscopy of SN 2002cx: The Prototype of a New Subclass of Type Ia Supernovae,” **Jha, S.**, D. Branch, R. Chornock, R. J. Foley, W. Li, B. J. Swift, D. Casebeer, and A. V. Filippenko, 2006, *AJ*, 132, 189-196  
<https://doi.org/10.1086/504599>  
<http://adsabs.harvard.edu/abs/2006AJ....132..189J>
- 56 “Spectropolarimetry of the Peculiar Type Ia Supernova 2005hk,” Chornock, R., A. V. Filippenko, D. Branch, R. J. Foley, **S. Jha**, and W. Li, 2006, *PASP*, 118, 722-732  
<https://doi.org/10.1086/504117>  
<http://adsabs.harvard.edu/abs/2006PASP..118..722C>
- 55 “Hubble Space Telescope and Ground-based Observations of Type Ia Supernovae at Redshift 0.5: Cosmological Implications,” Clocchiatti, A., B. P. Schmidt, A. V. Filippenko, P. Challis, A. L. Coil, R. Covarrubias, A. Diercks, P. Garnavich, L. Germany, R. Gilliland, C. Hogan, **S. Jha**, R. P. Kirshner, B. Leibundgut, D. Leonard, W. Li, T. Matheson, M. M. Phillips, J. L. Prieto, D. Reiss, A. G. Riess, R. Schommer, R. C. Smith, A. Soderberg, J. Spyromilio, C. Stubbs, N. B. Suntzeff, J. L. Tonry, and P. Woudt, 2006, *ApJ*, 642, 1-21  
<https://doi.org/10.1086/498491>  
<http://adsabs.harvard.edu/abs/2006ApJ...642....1C>
- 54 “Identification of the Red Supergiant Progenitor of Supernova 2005cs: Do the Progenitors of Type II-P Supernovae Have Low Mass?,” Li, W., S. D. Van Dyk, A. V. Filippenko, J.-C. Cuillandre, **S. Jha**, J. S. Bloom, A. G. Riess, and M. Livio, 2006, *ApJ*, 641, 1060-1070  
<https://doi.org/10.1086/499916>  
<http://adsabs.harvard.edu/abs/2006ApJ...641.1060L>
- 53 “Using Line Profiles to Test the Fraternity of Type Ia Supernovae at High and Low Redshifts,” Blondin, S., L. Dessart, B. Leibundgut, D. Branch, P. Höflich, J. L. Tonry, T. Matheson, R. J. Foley, R. Chornock, A. V. Filippenko, J. Sollerman, J. Spyromilio, R. P. Kirshner, W. M. Wood-Vasey, A. Clocchiatti, C. Aguilera, B. Barris, A. C. Becker, P. Challis, R. Covarrubias, T. M. Davis, P. Garnavich, M. Hicken, **S. Jha**, K. Krisciunas, W. Li, A. Miceli, G. Miknaitis, G. Pignata, J. L. Prieto, A. Rest, A. G. Riess, M. E. Salvo, B. P. Schmidt, R. C. Smith, C. W. Stubbs, and N. B. Suntzeff, 2006, *AJ*, 131, 1648-1666  
<https://doi.org/10.1086/498724>  
<http://adsabs.harvard.edu/abs/2006AJ....131.1648B>
- 52 “Closing in on a Short-Hard Burst Progenitor: Constraints from Early-Time Optical Imaging and Spectroscopy of a Possible Host Galaxy of GRB 050509b,” Bloom, J. S., J. X. Prochaska, D. Pooley, C. H. Blake, R. J. Foley, **S. Jha**, E. Ramirez-Ruiz, J. Granot, A. V. Filippenko, S. Sigurdsson, A. J. Barth, H.-W. Chen, M. C. Cooper, E. E. Falco, R. R. Gal, B. F. Gerke,



- M. D. Gladders, J. E. Greene, J. Hennanwi, L. C. Ho, K. Hurley, B. P. Koester, W. Li, L. Lubin, J. Newman, D. A. Perley, G. K. Squires, and W. M. Wood-Vasey, 2006, *ApJ*, 638, 354-368  
<https://doi.org/10.1086/498107>  
<http://adsabs.harvard.edu/abs/2006ApJ...638..354B>
- 51 “The Calibration of the Swift UVOT Optical Observations: A Recipe for Photometry,” Li, W., **S. Jha**, A. V. Filippenko, J. S. Bloom, D. Pooley, R. J. Foley, and D. A. Perley, 2006, *PASP*, 118, 37-61  
<https://doi.org/10.1086/498356>  
<http://adsabs.harvard.edu/abs/2006PASP...118...37L>
- 50 “UBVRI Light Curves of 44 Type Ia Supernovae,” **Jha, S.**, R. P. Kirshner, P. Challis, P. M. Garnavich, T. Matheson, A. M. Soderberg, G. J. M. Graves, M. Hicken, J. F. Alves, H. G. Arce, Z. Balog, P. Barmby, E. J. Barton, P. Berlind, A. E. Bragg, C. Briceño, W. R. Brown, J. H. Buckley, N. Caldwell, M. L. Calkins, B. J. Carter, K. D. Concannon, R. H. Donnelly, K. A. Eriksen, D. G. Fabricant, E. E. Falco, F. Fiore, M. R. Garcia, M. Gómez, N. A. Grogin, T. Groner, P. J. Groot, K. E. Haisch Jr., L. Hartmann, C. W. Hergenrother, M. J. Holman, J. P. Huchra, R. Jayawardhana, D. Jerius, S. J. Kannappan, D.-W. Kim, J. T. Kleyana, C. S. Kochanek, D. M. Koranyi, M. Krockenberger, C. J. Lada, K. L. Luhman, J. X. Luu, L. M. Macri, J. A. Mader, A. Mahdavi, M. Marengo, B. G. Marsden, B. A. McLeod, B. R. McNamara, S. T. Megeath, D. Moraru, A. E. Mossman, A. A. Muench, J. A. Muñoz, J. Muzerolle, O. Naranjo, K. Nelson-Patel, M. A. Pahre, B. M. Patten, J. Peters, W. Peters, J. C. Raymond, K. Rines, R. E. Schild, G. J. Sobczak, T. B. Spahr, J. R. Stauffer, R. P. Stefanik, A. H. Szentgyorgyi, E. V. Tollestrup, P. Väisänen, A. Vikhlinin, Z. Wang, S. P. Willner, S. J. Wolk, J. M. Zajač, P. Zhao, and K. Z. Stanek, 2006, *AJ*, 131, 527-554  
<https://doi.org/10.1086/497989>  
<http://adsabs.harvard.edu/abs/2006AJ....131..527J>
- 49 “Hubble Space Telescope Observations of Nine High-Redshift ESSENCE Supernovae,” Krisciunas, K., P. M. Garnavich, P. Challis, J. L. Prieto, A. G. Riess, B. Barris, C. Aguilera, A. C. Becker, S. Blondin, R. Chornock, A. Clocchiatti, R. Covarrubias, A. V. Filippenko, R. J. Foley, M. Hicken, **S. Jha**, R. P. Kirshner, B. Leibundgut, W. Li, T. Matheson, A. Miceli, G. Miknaitis, A. Rest, M. E. Salvo, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. W. Stubbs, N. B. Suntzeff, J. L. Tonry, and W. M. Wood-Vasey, 2005, *AJ*, 130, 2453-2472  
<https://doi.org/10.1086/497640>  
<http://adsabs.harvard.edu/abs/2005AJ....130.2453K>
- 48 “Chemistry and Star Formation in the Host Galaxies of Type Ia Supernovae,” Gallagher, J. S., P. M. Garnavich, P. Berlind, P. Challis, **S. Jha**, and R. P. Kirshner, 2005, *ApJ*, 634, 210-226  
<https://doi.org/10.1086/491664>  
<http://adsabs.harvard.edu/abs/2005ApJ...634..210G>
- 47 “Cepheid Calibrations from the Hubble Space Telescope of the Luminosity of Two Recent Type Ia Supernovae and a Redetermination of the Hubble Constant,” Riess, A. G., W. Li,

- P. B. Stetson, A. V. Filippenko, **S. Jha**, R. P. Kirshner, P. M. Challis, P. M. Garnavich, and R. Chornock, 2005, *ApJ*, 627, 579-607  
<https://doi.org/10.1086/430497>  
<http://adsabs.harvard.edu/abs/2005ApJ...627..579R>
- 46 “A Transiting Extrasolar Giant Planet around the Star OGLE-TR-10,” Konacki, M., G. Torres, D. D. Sasselov, and **S. Jha**, 2005, *ApJ*, 624, 372-377  
<https://doi.org/10.1086/429127>  
<http://adsabs.harvard.edu/abs/2005ApJ...624..372K>
- 45 “Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years,” Matheson, T., S. Blondin, R. J. Foley, R. Chornock, A. V. Filippenko, B. Leibundgut, R. C. Smith, J. Sollerman, J. Spyromilio, R. P. Kirshner, A. Clocchiatti, C. Aguilera, B. Barris, A. C. Becker, P. Challis, R. Covarrubias, P. Garnavich, M. Hicken, **S. Jha**, K. Krisciunas, W. Li, A. Miceli, G. Miknaitis, J. L. Prieto, A. Rest, A. G. Riess, M. E. Salvo, B. P. Schmidt, C. W. Stubbs, N. B. Suntzeff, and J. L. Tonry, 2005, *AJ*, 129, 2352-2375  
<https://doi.org/10.1086/429679>  
<http://adsabs.harvard.edu/abs/2005AJ....129.2352M>
- 44 “Hubble Space Telescope and Ground-based Observations of SN 1993J and SN 1998S: CNO Processing in the Progenitors,” Fransson, C., P. M. Challis, R. A. Chevalier, A. V. Filippenko, R. P. Kirshner, C. Kozma, D. C. Leonard, T. Matheson, E. Baron, P. Garnavich, **S. Jha**, B. Leibundgut, P. Lundqvist, C. S. J. Pun, L. Wang, and J. C. Wheeler, 2005, *ApJ*, 622, 991-1007  
<https://doi.org/10.1086/426495>  
<http://adsabs.harvard.edu/abs/2005ApJ...622..991F>
- 43 “Testing Blend Scenarios for Extrasolar Transiting Planet Candidates. II. OGLE-TR-56,” Torres, G., M. Konacki, D. D. Sasselov, and **S. Jha**, 2005, *ApJ*, 619, 558-569  
<https://doi.org/10.1086/426496>  
<http://adsabs.harvard.edu/abs/2005ApJ...619..558T>
- 42 “Testing Blend Scenarios for Extrasolar Transiting Planet Candidates. I. OGLE-TR-33: A False Positive,” Torres, G., M. Konacki, D. D. Sasselov, and **S. Jha**, 2004, *ApJ*, 614, 979-989  
<https://doi.org/10.1086/423734>  
<http://adsabs.harvard.edu/abs/2004ApJ...614..979T>
- 41 “The Luminosity of SN 1999by in NGC 2841 and the Nature of “Peculiar” Type Ia Supernovae,” Garnavich, P. M., A. Z. Bonanos, K. Krisciunas, **S. Jha**, R. P. Kirshner, E. M. Schlegel, P. Challis, L. M. Macri, K. Hatano, D. Branch, G. D. Bothun, and W. L. Freedman, 2004, *ApJ*, 613, 1120-1132  
<https://doi.org/10.1086/422986>  
<http://adsabs.harvard.edu/abs/2004ApJ...613.1120G>
- 40 “The Transiting Extrasolar Giant Planet around the Star OGLE-TR-113,” Konacki, M., G. Torres, D. D. Sasselov, G. Pietrzyński, A. Udalski, **S. Jha**, M. T. Ruiz, W. Gieren, and D. Minniti,

2004, ApJ, 609, L37-L40

<https://doi.org/10.1086/422600>

<http://adsabs.harvard.edu/abs/2004ApJ...609L..37K>

- 39 “New Data and Improved Parameters for the Extrasolar Transiting Planet OGLE-TR-56b,” Torres, G., M. Konacki, D. D. Sasselov, and **S. Jha**, 2004, ApJ, 609, 1071-1075  
<https://doi.org/10.1086/421286>  
<http://adsabs.harvard.edu/abs/2004ApJ...609.1071T>
- 38 “Type Ia Supernova Discoveries at  $z > 1$  from the Hubble Space Telescope: Evidence for Past Deceleration and Constraints on Dark Energy Evolution,” Riess, A. G., L.-G. Strolger, J. Tonry, S. Casertano, H. C. Ferguson, B. Mobasher, P. Challis, A. V. Filippenko, **S. Jha**, W. Li, R. Chornock, R. P. Kirshner, B. Leibundgut, M. Dickinson, M. Livio, M. Giavalisco, C. C. Steidel, T. Benítez, and Z. Tsvetanov, 2004, ApJ, 607, 665-687  
<https://doi.org/10.1086/383612>  
<http://adsabs.harvard.edu/abs/2004ApJ...607..665R>
- 37 “Twenty-Three High-Redshift Supernovae from the Institute for Astronomy Deep Survey: Doubling the Supernova Sample at  $z > 0.7$ ,” Barris, B. J., J. L. Tonry, S. Blondin, P. Challis, R. Chornock, A. Clocchiatti, A. V. Filippenko, P. Garnavich, S. T. Holland, **S. Jha**, R. P. Kirshner, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, G. Miknaitis, A. G. Riess, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. W. Stubbs, N. B. Suntzeff, H. Aussenel, K. C. Chambers, M. S. Connelley, D. Donovan, J. P. Henry, N. Kaiser, M. C. Liu, E. L. Martín, and R. J. Wainscoat, 2004, ApJ, 602, 571-594  
<https://doi.org/10.1086/381122>  
<http://adsabs.harvard.edu/abs/2004ApJ...602..571B>
- 36 “Photometry and Spectroscopy of GRB 030329 and Its Associated Supernova 2003dh: The First Two Months,” Matheson, T., P. M. Garnavich, K. Z. Stanek, D. Bersier, S. T. Holland, K. Krisciunas, N. Caldwell, P. Berlind, J. S. Bloom, M. Bolte, A. Z. Bonanos, M. J. I. Brown, W. R. Brown, M. L. Calkins, P. Challis, R. Chornock, L. Echevarria, D. J. Eisenstein, M. E. Everett, A. V. Filippenko, K. Flint, R. J. Foley, D. L. Freedman, M. Hamuy, P. Harding, N. P. Hathi, M. Hicken, C. Hoopes, C. Impey, B. T. Jannuzi, R. A. Jansen, **S. Jha**, J. Kaluzny, S. Kannappan, R. P. Kirshner, D. W. Latham, J. C. Lee, D. C. Leonard, W. Li, K. L. Luhman, P. Martini, H. Mathis, J. Maza, S. T. Megeath, L. R. Miller, D. Minniti, E. W. Olszewski, M. Papenkova, M. M. Phillips, B. Pindor, D. D. Sasselov, R. Schild, H. Schweiker, T. Spahr, J. Thomas-Osip, I. Thompson, D. Weisz, R. Windhorst, and D. Zaritsky, 2003, ApJ, 599, 394-407  
<https://doi.org/10.1086/379228>  
<http://adsabs.harvard.edu/abs/2003ApJ...599..394M>
- 35 “Imaging and Demography of the Host Galaxies of High-Redshift Type Ia Supernovae,” Williams, B. F., C. J. Hogan, B. Barris, P. Candia, P. Challis, A. Clocchiatti, A. L. Coil, A. V. Filippenko, P. Garnavich, R. P. Kirshner, S. T. Holland, **S. Jha**, K. Krisciunas,

- B. Leibundgut, W. Li, T. Matheson, J. Maza, M. M. Phillips, A. G. Riess, B. P. Schmidt, R. A. Schommer, R. C. Smith, J. Sollerman, J. Spyromilio, C. Stubbs, N. B. Suntzeff, and J. L. Tonry, 2003, *AJ*, 126, 2608-2621  
<https://doi.org/10.1086/379675>  
<http://adsabs.harvard.edu/abs/2003AJ....126.2608W>
- 34 “High-Resolution Spectroscopic Follow-up of OGLE Planetary Transit Candidates in the Galactic Bulge: Two Possible Jupiter-Mass Planets and Two Blends,” Konacki, M., G. Torres, D. D. Sasselov, and **S. Jha**, 2003, *ApJ*, 597, 1076-1091  
<https://doi.org/10.1086/378561>  
<http://adsabs.harvard.edu/abs/2003ApJ...597.1076K>
- 33 “Cosmological Results from High-z Supernovae,” Tonry, J. L., B. P. Schmidt, B. Barris, P. Candia, P. Challis, A. Clocchiatti, A. L. Coil, A. V. Filippenko, P. Garnavich, C. Hogan, S. T. Holland, **S. Jha**, R. P. Kirshner, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, M. M. Phillips, A. G. Riess, R. Schommer, R. C. Smith, J. Sollerman, J. Spyromilio, C. W. Stubbs, and N. B. Suntzeff, 2003, *ApJ*, 594, 1-24  
<https://doi.org/10.1086/376865>  
<http://adsabs.harvard.edu/abs/2003ApJ...594....1T>
- 32 “Optical Spectra of the Type Ia Supernova 1998aq,” Branch, D., P. Garnavich, T. Matheson, E. Baron, R. C. Thomas, K. Hatano, P. Challis, **S. Jha**, and R. P. Kirshner, 2003, *AJ*, 126, 1489-1498  
<https://doi.org/10.1086/377016>  
<http://adsabs.harvard.edu/abs/2003AJ....126.1489B>
- 31 “The Katzman Automatic Imaging Telescope Gamma-Ray Burst Alert System, and Observations of GRB 020813,” Li, W., A. V. Filippenko, R. Chornock, and **S. Jha**, 2003, *PASP*, 115, 844-853  
<https://doi.org/10.1086/376432>  
<http://adsabs.harvard.edu/abs/2003PASP..115..844L>
- 30 “SN 2002cx: The Most Peculiar Known Type Ia Supernova,” Li, W., A. V. Filippenko, R. Chornock, E. Berger, P. Berlind, M. L. Calkins, P. Challis, C. Fassnacht, **S. Jha**, R. P. Kirshner, T. Matheson, W. L. W. Sargent, R. A. Simcoe, G. H. Smith, and G. Squires, 2003, *PASP*, 115, 453-473  
<https://doi.org/10.1086/374200>  
<http://adsabs.harvard.edu/abs/2003PASP..115..453L>
- 29 “The Early Light Curve of the Optical Afterglow of GRB 021211,” Li, W., A. V. Filippenko, R. Chornock, and **S. Jha**, 2003, *ApJ*, 586, L9-L12  
<https://doi.org/10.1086/374684>  
<http://adsabs.harvard.edu/abs/2003ApJ...586L...9L>

- 28 “The Unusual Optical Afterglow of the Gamma-Ray Burst GRB 021004: Color Changes and Short-Timescale Variability,” Bersier, D., K. Z. Stanek, J. N. Winn, T. Grav, M. J. Holman, T. Matheson, B. Mochejska, D. Steeghs, A. R. Walker, P. M. Garnavich, J. Quinn, **S. Jha**, K. H. Cook, W. W. Craig, P. J. Meintjes, and J. J. Calitz, 2003, *ApJ*, 584, L43-L46  
<https://doi.org/10.1086/373888>  
<http://adsabs.harvard.edu/abs/2003ApJ...584L..43B>
- 27 “The Strongly Polarized Afterglow of GRB 020405,” Bersier, D., B. McLeod, P. M. Garnavich, M. J. Holman, T. Grav, J. Quinn, J. Kaluzny, P. M. Challis, R. G. Bower, D. J. Wilman, J. S. Heyl, S. T. Holland, V. Hradecky, **S. Jha**, and K. Z. Stanek, 2003, *ApJ*, 583, L63-L66  
<https://doi.org/10.1086/368158>  
<http://adsabs.harvard.edu/abs/2003ApJ...583L..63B>
- 26 “An extrasolar planet that transits the disk of its parent star,” Konacki, M., G. Torres, **S. Jha**, and D. D. Sasselov, 2003, *Nature*, 421, 507-509  
<https://doi.org/10.1038/nature01379>  
<http://adsabs.harvard.edu/abs/2003Natur.421..507K>
- 25 “The Spectroscopic Variability of GRB 021004,” Matheson, T., P. M. Garnavich, C. Foltz, S. West, G. Williams, E. Falco, M. L. Calkins, F. J. Castander, E. Gawiser, **S. Jha**, D. Bersier, and K. Z. Stanek, 2003, *ApJ*, 582, L5-L9  
<https://doi.org/10.1086/367601>  
<http://adsabs.harvard.edu/abs/2003ApJ...582L...5M>
- 24 “Discovery of the Low-Redshift Optical Afterglow of GRB 011121 and Its Progenitor Supernova SN 2001ke,” Garnavich, P. M., K. Z. Stanek, L. Wyrzykowski, L. Infante, E. Bendek, D. Bersier, S. T. Holland, **S. Jha**, T. Matheson, R. P. Kirshner, K. Krisciunas, M. M. Phillips, and R. G. Carlberg, 2003, *ApJ*, 582, 924-932  
<https://doi.org/10.1086/344785>  
<http://adsabs.harvard.edu/abs/2003ApJ...582..924G>
- 23 “A Study of the Type II-Plateau Supernova 1999gi and the Distance to its Host Galaxy, NGC 3184,” Leonard, D. C., A. V. Filippenko, W. Li, T. Matheson, R. P. Kirshner, R. Chornock, S. D. Van Dyk, P. Berlind, M. L. Calkins, P. M. Challis, P. M. Garnavich, **S. Jha**, and A. Mahdavi, 2002, *AJ*, 124, 2490-2505  
<https://doi.org/10.1086/343771>  
<http://adsabs.harvard.edu/abs/2002AJ....124.2490L>
- 22 “Extraordinary Late-Time Infrared Emission of Type II<sub>n</sub> Supernovae,” Gerardy, C. L., R. A. Fesen, K. Nomoto, P. M. Garnavich, **S. Jha**, P. M. Challis, R. P. Kirshner, P. Höflich, and J. C. Wheeler, 2002, *ApJ*, 575, 1007-1017  
<https://doi.org/10.1086/341430>  
<http://adsabs.harvard.edu/abs/2002ApJ...575.1007G>

- 21 “The Optical Afterglow of the Gamma-Ray Burst GRB 011211,” Holland, S. T., I. Soszyński, M. D. Gladders, L. F. Barrientos, P. Berlind, D. Bersier, P. M. Garnavich, **S. Jha**, and K. Z. Stanek, 2002, *AJ*, 124, 639-645  
<https://doi.org/10.1086/341388>  
<http://adsabs.harvard.edu/abs/2002AJ....124..639H>
- 20 “Rapid UBVRI Follow-up of the Highly Collimated Optical Afterglow of GRB 010222,” Stanek, K. Z., P. M. Garnavich, **S. Jha**, R. E. Kilgard, J. C. McDowell, D. Bersier, P. M. Challis, E. Falco, and J. L. Quinn, 2001, *ApJ*, 563, 592-596  
<https://doi.org/10.1086/323941>  
<http://adsabs.harvard.edu/abs/2001ApJ...563..592S>
- 19 “The Discovery of Cepheids and a New Distance to NGC 2841 Using the Hubble Space Telescope,” Macri, L. M., P. B. Stetson, G. D. Bothun, W. L. Freedman, P. M. Garnavich, **S. Jha**, B. F. Madore, and M. W. Richmond, 2001, *ApJ*, 559, 243-259  
<https://doi.org/10.1086/322395>  
<http://adsabs.harvard.edu/abs/2001ApJ...559..243M>
- 18 “The Redshift of the Optical Transient Associated with GRB 010222,” **Jha, S.**, M. A. Pahre, P. M. Garnavich, M. L. Calkins, R. E. Kilgard, T. Matheson, J. C. McDowell, J. B. Roll, and K. Z. Stanek, 2001, *ApJ*, 554, L155-L158  
<https://doi.org/10.1086/321709>  
<http://adsabs.harvard.edu/abs/2001ApJ...554L.155J>
- 17 “Analysis of the Type II<sub>n</sub> SN 1998S: Effects of Circumstellar Interaction on Observed Spectra,” Lentz, E. J., E. Baron, P. Lundqvist, D. Branch, P. H. Hauschildt, C. Fransson, P. Garnavich, N. Bastian, A. V. Filippenko, R. P. Kirshner, P. M. Challis, **S. Jha**, B. Leibundgut, R. McCray, E. Michael, N. Panagia, M. M. Phillips, C. S. J. Pun, B. Schmidt, G. Sonneborn, N. B. Suntzeff, L. Wang, and J. C. Wheeler, 2001, *ApJ*, 547, 406-411  
<https://doi.org/10.1086/318363>  
<http://adsabs.harvard.edu/abs/2001ApJ...547..406L>
- 16 “Preliminary Spectral Analysis of the Type II Supernova 1999em,” Baron, E., D. Branch, P. H. Hauschildt, A. V. Filippenko, R. P. Kirshner, P. M. Challis, **S. Jha**, R. Chevalier, C. Fransson, P. Lundqvist, P. Garnavich, B. Leibundgut, R. McCray, E. Michael, N. Panagia, M. M. Phillips, C. S. J. Pun, B. Schmidt, G. Sonneborn, N. B. Suntzeff, L. Wang, and J. C. Wheeler, 2000, *ApJ*, 545, 444-448  
<https://doi.org/10.1086/317795>  
<http://adsabs.harvard.edu/abs/2000ApJ...545..444B>
- 15 “Optical Spectra of Type Ia Supernovae at  $z=0.46$  and  $z=1.2$ ,” Coil, A. L., T. Matheson, A. V. Filippenko, D. C. Leonard, J. Tonry, A. G. Riess, P. Challis, A. Clocchiatti, P. M. Garnavich, C. J. Hogan, **S. Jha**, R. P. Kirshner, B. Leibundgut, M. M. Phillips, B. P. Schmidt, R. A. Schommer, R. C. Smith, A. M. Soderberg, J. Spyromilio, C. Stubbs, N. B. Suntzeff, and

- P. Woudt, 2000, *ApJ*, 544, L111-L114  
<https://doi.org/10.1086/317311>  
<http://adsabs.harvard.edu/abs/2000ApJ...544L.111C>
- 14 “RJK Band Observations of the Optical Afterglow of GRB 991216,” Garnavich, P. M., **S. Jha**, M. A. Pahre, K. Z. Stanek, R. P. Kirshner, M. R. Garcia, A. H. Szentgyorgyi, and J. L. Tonry, 2000, *ApJ*, 543, 61-65  
<https://doi.org/10.1086/317102>  
<http://adsabs.harvard.edu/abs/2000ApJ...543...61G>
- 13 “Studies of multiple stellar systems — III. Modulation of orbital elements in the triple-lined system HD 109648,” **Jha, S.**, G. Torres, R. P. Stefanik, D. W. Latham, and T. Mazeh, 2000, *MNRAS*, 317, 375-384  
<https://doi.org/10.1046/j.1365-8711.2000.03592.x>  
<http://adsabs.harvard.edu/abs/2000MNRAS.317..375J>
- 12 “Multicolor Observations of a Planetary Transit of HD 209458,” **Jha, S.**, D. Charbonneau, P. M. Garnavich, D. J. Sullivan, T. Sullivan, T. M. Brown, and J. L. Tonry, 2000, *ApJ*, 540, L45-L48  
<https://doi.org/10.1086/312869>  
<http://adsabs.harvard.edu/abs/2000ApJ...540L..45J>
- 11 “Tests of the Accelerating Universe with Near-Infrared Observations of a High-Redshift Type Ia Supernova,” Riess, A. G., A. V. Filippenko, M. C. Liu, P. Challis, A. Clocchiatti, A. Diercks, P. M. Garnavich, C. J. Hogan, **S. Jha**, R. P. Kirshner, B. Leibundgut, M. M. Phillips, D. Reiss, B. P. Schmidt, R. A. Schommer, R. C. Smith, J. Spyromilio, C. Stubbs, N. B. Suntzeff, J. Tonry, P. Woudt, R. J. Brunner, A. Dey, R. Gal, J. Graham, J. Larkin, S. C. Odewahn, and B. Oppenheimer, 2000, *ApJ*, 536, 62-67  
<https://doi.org/10.1086/308939>  
<http://adsabs.harvard.edu/abs/2000ApJ...536...62R>
- 10 “The Peculiar Type Ic Supernova 1997ef: Another Hypernova,” Iwamoto, K., T. Nakamura, K. Nomoto, P. A. Mazzali, I. J. Danziger, P. Garnavich, R. Kirshner, **S. Jha**, D. Balam, and J. Thorstensen, 2000, *ApJ*, 534, 660-669  
<https://doi.org/10.1086/308761>  
<http://adsabs.harvard.edu/abs/2000ApJ...534..660I>
- 9 “The Type Ia Supernova 1998bu in M96 and the Hubble Constant,” **Jha, S.**, P. M. Garnavich, R. P. Kirshner, P. Challis, A. M. Soderberg, L. M. Macri, J. P. Huchra, P. Barmby, E. J. Barton, P. Berlind, W. R. Brown, N. Caldwell, M. L. Calkins, S. J. Kannappan, D. M. Koranyi, M. A. Pahre, K. J. Rines, K. Z. Stanek, R. P. Stefanik, A. H. Szentgyorgyi, P. Väisänen, Z. Wang, J. M. Zjac, A. G. Riess, A. V. Filippenko, W. Li, M. Modjaz, R. R. Treffers, C. W. Hergenrother, E. K. Grebel, P. Seitzer, G. H. Jacoby, P. J. Benson, A. Rizvi, L. A. Marschall, J. D. Goldader, M. Beasley, W. D. Vacca, B. Leibundgut, J. Spyromilio,

- B. P. Schmidt, and P. R. Wood, 1999, *ApJS*, 125, 73-97  
<https://doi.org/10.1086/313275>  
<http://adsabs.harvard.edu/abs/1999ApJS...125...73J>
- 8 “An Upper Limit on the Reflected Light from the Planet Orbiting the Star  $\tau$  Bootis,” Charbonneau, D., R. W. Noyes, S. G. Korzennik, P. Nisenson, **S. Jha**, S. S. Vogt, and R. I. Kibrick, 1999, *ApJ*, 522, L145-L148  
<https://doi.org/10.1086/312234>  
<http://adsabs.harvard.edu/abs/1999ApJ...522L.145C>
- 7 “BVRI Light Curves for 22 Type Ia Supernovae,” Riess, A. G., R. P. Kirshner, B. P. Schmidt, **S. Jha**, P. Challis, P. M. Garnavich, A. A. Esin, C. Carpenter, R. Grashius, R. E. Schild, P. L. Berlind, J. P. Huchra, C. F. Prosser, E. E. Falco, P. J. Benson, C. Briceño, W. R. Brown, N. Caldwell, I. P. dell’Antonio, A. V. Filippenko, A. A. Goodman, N. A. Grogin, T. Groner, J. P. Hughes, P. J. Green, R. A. Jansen, J. T. Kleyna, J. X. Luu, L. M. Macri, B. A. McLeod, K. K. McLeod, B. R. McNamara, B. McLean, A. A. E. Milone, J. J. Mohr, D. Moraru, C. Peng, J. Peters, A. H. Prestwich, K. Z. Stanek, A. Szentgyorgyi, and P. Zhao, 1999, *AJ*, 117, 707-724  
<https://doi.org/10.1086/300738>  
<http://adsabs.harvard.edu/abs/1999AJ....117..707R>
- 6 “Supernova Limits on the Cosmic Equation of State,” Garnavich, P. M., **S. Jha**, P. Challis, A. Clocchiatti, A. Diercks, A. V. Filippenko, R. L. Gilliland, C. J. Hogan, R. P. Kirshner, B. Leibundgut, M. M. Phillips, D. Reiss, A. G. Riess, B. P. Schmidt, R. A. Schommer, R. C. Smith, J. Spyromilio, C. Stubbs, N. B. Suntzeff, J. Tonry, and S. M. Carroll, 1998, *ApJ*, 509, 74-79  
<https://doi.org/10.1086/306495>  
<http://adsabs.harvard.edu/abs/1998ApJ...509...74G>
- 5 “Spectral Line Distortions in the Presence of a Close-in Planet,” Charbonneau, D., **S. Jha**, and R. W. Noyes, 1998, *ApJ*, 507, L153-L156  
<https://doi.org/10.1086/311703>  
<http://adsabs.harvard.edu/abs/1998ApJ...507L.153C>
- 4 “Observational Evidence from Supernovae for an Accelerating Universe and a Cosmological Constant,” Riess, A. G., A. V. Filippenko, P. Challis, A. Clocchiatti, A. Diercks, P. M. Garnavich, R. L. Gilliland, C. J. Hogan, **S. Jha**, R. P. Kirshner, B. Leibundgut, M. M. Phillips, D. Reiss, B. P. Schmidt, R. A. Schommer, R. C. Smith, J. Spyromilio, C. Stubbs, N. B. Suntzeff, and J. Tonry, 1998, *AJ*, 116, 1009-1038  
<https://doi.org/10.1086/300499>  
<http://adsabs.harvard.edu/abs/1998AJ....116.1009R>
- 3 “The membership of Upsilon One,” Stefanik, R. P., J. R. Caruso, G. Torres, **S. Jha**, and D. W. Latham, 1997, *BaltA*, 6, 137  
<http://adsabs.harvard.edu/abs/1997BaltA...6..137S>



- 2 “The hierarchical triple system HD 109648,” **Jha, S.**, G. Torres, R. P. Stefanik, and D. W. Latham, 1997, *BaltA*, 6, 55  
<http://adsabs.harvard.edu/abs/1997BaltA...6...55J>
- 1 “A Planet Orbiting the Star  $\rho$  Coronae Borealis,” Noyes, R. W., **S. Jha**, S. G. Korzennik, M. Krockenberger, P. Nisenson, T. M. Brown, E. J. Kennelly, and S. D. Horner, 1997, *ApJ*, 483, L111-L114 (erratum: *ApJ* 587, L195)  
<https://doi.org/10.1086/310754>  
<http://adsabs.harvard.edu/abs/1997ApJ...483L.111N>

## Book Chapters

- 1 “Type Iax Supernovae,” **Jha, S. W.**, 2017, in *Handbook of Supernovae*, 375, Alsabti A., Murgin P. (eds), Springer, Cham  
[https://doi.org/10.1007/978-3-319-21846-5\\_42](https://doi.org/10.1007/978-3-319-21846-5_42)  
<http://adsabs.harvard.edu/abs/2017hsn...book..375J>

## Other Articles, White Papers, and Books

- 29 “SN 2016dsg: A Thermonuclear Explosion Involving A Thick Helium Shell,” Dong, Y., S. Valenti, A. Polin, A. Boyle, . andreas . flörs, C. Vogl, W. Kerzendorf, D. Sand, **S. Jha**, L. Wyrzykowski, K. Bostroem, J. Pearson, C. McCully, J. Andrew, S. Benettii, S. Blondin, L. Galbany, M. Gromadzki, G. Hosseinzadeh, D. A. Howell, C. Inserra, J. Jencson, M. Lundquist, J. Lyman, M. Magee, K. Maguire, N. Meza, S. Srivastav, S. Taubenberger, J. Terwel, S. Wyatt, and D. Young, 2022 (arXiv:2206.07065)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220607065D>
- 28 “MUSSES2020J: The Earliest Discovery of a Fast Blue Ultraluminous Transient at Redshift 1.063,” Jiang, J.-. an ., N. Yasuda, K. Maeda, N. Tominaga, M. Doi, Ž. Ivezić, P. Yoachim, K. Uno, T. J. Moriya, B. Kumar, Y.-C. Pan, M. Tanaka, M. Tanaka, K. Nomoto, **S. W. Jha**, P. Ruiz-Lapuente, D. Jones, T. Shigeyama, N. Suzuki, M. Kokubo, H. Furusawa, S. Miyazaki, A. J. Connolly, D. K. Sahu, and G. C. Anupama, 2022 (arXiv:2205.14889)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220514889J>
- 27 “Designing an Optimal LSST Deep Drilling Program for Cosmology with Type Ia Supernovae,” Gris, P., N. Regnault, H. Awan, I. Hook, **S. W. Jha**, M. Lochner, B. Sanchez, D. Scolnic, M. Sullivan, P. Yoachim, and the LSST Dark Energy Science Collaboration, 2022 (arXiv:2205.07651)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220507651G>
- 26 “Constraining the Progenitor System of the Type Ia Supernova 2021aefx,” Hosseinzadeh, G., D. J. Sand, P. Lundqvist, J. E. Andrews, K. A. Bostroem, Y. Dong, D. Janzen, J. E.

- Jencson, M. Lundquist, N. Meza, J. Pearson, S. Valenti, S. Wyatt, J. Burke, D. A. Howell, C. McCully, M. Newsome, E. Padilla Gonzalez, C. Pellegrino, G. Terreran, L. A. Kwok, **S. W. Jha**, J. Strader, E. Kundu, S. D. Ryder, J. Haislip, V. Kouprianov, and D. E. Reichart, 2022 (arXiv:2205.02236)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220502236H>
- 25 “A Synthetic Roman Space Telescope High-Latitude Time-Domain Survey: Supernovae in the Deep Field,” Wang, K. X., D. Scolnic, M. A. Troxel, S. A. Rodney, B. Popovic, C. Duff, A. V. Filippenko, R. J. Foley, R. Hounsell, **S. W. Jha**, D. O. Jones, B. A. Joshi, H. Long, P. Macias, A. G. Riess, B. M. Rose, and M. Yamamoto, 2022 (arXiv:2204.13553)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220413553W>
- 24 “Ultraviolet Spectroscopy and TARDIS Models of the Broad-lined Type-Ic Supernova 2014ad,” Kwok, L. A., M. Williamson, **S. W. Jha**, M. Modjaz, Y. Camacho-Neves, R. J. Foley, P. Garnavich, K. Maeda, D. Milisavljevic, V. Pandya, M. Dai, C. McCully, T. Pritchard, and J. Singhal, 2022 (arXiv:2204.03716)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220403716K>
- 23 “Snowmass2021 Cosmic Frontier White Paper: Enabling Flagship Dark Energy Experiments to Reach their Full Potential,” Blazek, J. A., D. Clowe, T. E. Collett, I. P. Dell’Antonio, M. Dickinson, L. Galbany, E. Gawiser, K. Heitmann, R. Hložek, M. Ishak, **S. W. Jha**, A. G. Kim, C. D. Leonard, A. von der Linden, M. Lochner, R. Mandelbaum, P. Melchior, J. Meyers, J. A. Newman, P. Nugent, S. Perlmutter, D. J. Perrefort, J. Sánchez, S. J. Schmidt, S. Singh, M. Sullivan, A. Verma, and R. Zhou, 2022 (arXiv:2204.01992)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220401992B>
- 22 “Weak Mass Loss from the Red Supergiant Progenitor of the Type II SN 2021yja,” Hosseinzadeh, G., C. D. Kilpatrick, Y. Dong, D. J. Sand, J. E. Andrews, K. A. Bostroem, D. Janzen, J. E. Jencson, M. Lundquist, N. Meza, J. Pearson, S. Valenti, S. Wyatt, J. Burke, D. Hiramatsu, D. A. Howell, C. McCully, M. Newsome, E. Padilla Gonzalez, C. Pellegrino, G. Terreran, K. Auchettl, K. W. Davis, R. J. Foley, H.-Y. Miao, Y.-C. Pan, A. Rest, M. R. Siebert, K. Taggart, B. E. Tucker, F. L. Cyrus Leung, J. J. Swift, G. Yang, J. P. Anderson, C. Ashall, S. Benetti, P. J. Brown, R. Cartier, T.-W. Chen, M. Della Valle, L. Galbany, S. Gomez, M. Gromadzki, J. Haislip, E. Y. Hsiao, C. Inserra, **S. W. Jha**, T. L. Killestein, V. Kouprianov, A. Kozyreva, T. E. Müller-Bravo, M. Nicholl, E. Paraskeva, D. E. Reichart, S. Ryder, M. Shahbandeh, B. Shappee, N. Smith, and D. R. Young, 2022 (arXiv:2203.08155)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220308155H>
- 21 “Snowmass2021 Cosmic Frontier White Paper: Rubin Observatory after LSST,” Blum, B., S. W. Digel, A. Drlica-Wagner, S. Habib, K. Heitmann, M. Ishak, **S. W. Jha**, S. M. Kahn, R. Mandelbaum, P. Marshall, J. A. Newman, A. Roodman, and C. W. Stubbs, 2022 (arXiv:2203.07220)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220307220B>
- 20 “The Pantheon+ Analysis: Cosmological Constraints,” Brout, D., D. Scolnic, B. Popovic, A. G. Riess, J. Zuntz, R. Kessler, A. Carr, T. M. Davis, S. Hinton, D. Jones, W. D. Kenworthy,

- E. R. Peterson, K. Said, G. Taylor, N. Ali, P. Armstrong, P. Charvu, A. Dwomoh, A. Palmese, H. Qu, B. M. Rose, C. W. Stubbs, M. Vincenzi, C. M. Wood, P. J. Brown, R. Chen, K. Chambers, D. A. Coulter, M. Dai, G. Dimitriadis, A. V. Filippenko, R. J. Foley, **S. W. Jha**, L. Kelsey, R. P. Kirshner, A. Möller, J. Muir, S. Nadathur, Y.-C. Pan, A. Rest, C. Rojas-Bravo, M. Sako, M. R. Siebert, M. Smith, B. E. Stahl, and P. Wiseman, 2022 (arXiv:2202.04077)  
<https://ui.adsabs.harvard.edu/abs/2022arXiv220204077B>
- 19 “A Comprehensive Measurement of the Local Value of the Hubble Constant with 1 km/s/Mpc Uncertainty from the Hubble Space Telescope and the SH0ES Team,” Riess, A. G., W. Yuan, L. M. Macri, D. Scolnic, D. Brout, S. Casertano, D. O. Jones, Y. Murakami, L. Breuval, T. G. Brink, A. V. Filippenko, S. Hoffmann, **S. W. Jha**, W. D. Kenworthy, J. Mackenty, B. E. Stahl, and W. Zheng, 2021 (arXiv:2112.04510)  
<https://ui.adsabs.harvard.edu/abs/2021arXiv211204510R>
- 18 “The Pantheon+ Analysis: The Full Dataset and Light-Curve Release,” Scolnic, D., D. Brout, A. Carr, A. G. Riess, T. M. Davis, A. Dwomoh, D. O. Jones, N. Ali, P. Charvu, R. Chen, E. R. Peterson, B. Popovic, B. M. Rose, C. Wood, P. J. Brown, K. Chambers, D. A. Coulter, K. G. Dettman, G. Dimitriadis, A. V. Filippenko, R. J. Foley, **S. W. Jha**, C. D. Kilpatrick, R. P. Kirshner, Y.-C. Pan, A. Rest, C. Rojas-Bravo, M. R. Siebert, B. E. Stahl, and W. Zheng, 2021 (arXiv:2112.03863)  
<https://ui.adsabs.harvard.edu/abs/2021arXiv211203863S>
- 17 “SNIa-Cosmology Analysis Results from Simulated LSST Images: from Difference Imaging to Constraints on Dark Energy,” Sánchez, B., R. Kessler, D. Scolnic, B. Armstrong, R. Biswas, J. Bogart, J. Chiang, J. Cohen-Tanugi, D. Fouchez, P. Gris, K. Heitmann, R. Hložek, **S. Jha**, H. Kelly, S. Liu, G. Narayan, B. Racine, E. Rykoff, M. Sullivan, C. Walter, M. Wood-Vasey, and The LSST Dark Energy Science Collaboration, 2021 (arXiv:2111.06858)  
<https://ui.adsabs.harvard.edu/abs/2021arXiv211106858S>
- 16 “A Reference Survey for Supernova Cosmology with the Nancy Grace Roman Space Telescope,” Rose, B. M., C. Baltay, R. Hounsell, P. Macias, D. Rubin, D. Scolnic, G. Aldering, R. Bohlin, M. Dai, S. E. Deustua, R. J. Foley, A. Fruchter, L. Galbany, **S. W. Jha**, D. O. Jones, B. A. Joshi, P. L. Kelly, R. Kessler, R. P. Kirshner, K. S. Mandel, S. Perlmutter, J. Pierel, H. Qu, D. Rabinowitz, A. Rest, A. G. Riess, S. Rodney, M. Sako, M. R. Siebert, L. Strolger, N. Suzuki, S. Thorp, S. D. Van Dyk, K. Wang, S. M. Ward, and W. M. Wood-Vasey, 2021 (arXiv:2111.03081)  
<https://ui.adsabs.harvard.edu/abs/2021arXiv211103081R>
- 15 “SN 2021csp – the explosion of a stripped envelope star within a H and He-poor circumstellar medium,” Fraser, M., M. D. Stritzinger, S. J. Brennan, A. Pastorello, Y. Cai, A. L. Piro, C. Ashall, P. Brown, C. R. Burns, N. Elias-Rosa, R. Kotak, A. V. Filippenko, L. Galbany, E. Y. Hsiao, **S. W. Jha**, A. Reguitti, J.-. jia . Zhang, S. Moran, N. Morrell, B. J. Shappee, L. Tomasella, J. P. Anderson, T. Barna, P. Ochner, M. M. Phillips, M. Tucker, X. Wang, E. Baron, S. Benetti, M. C. Bersten, T. G. Brink, Y. Camacho-Neves, S. Davis, K. G. Dettman,

G. Folatelli, C. P. Gutierrez, P. Hoflich, T. W.-S. Holoien, E. Kankare, S. Kumar, J. Lu, P. Mazzali, S. Taubenberger, S. Tinyanont, H. Kuncarayakti, L. Kwok, M. Shahbandeh, N. B. Suntzeff, S. Yan, Y. Yang, and W. Zheng, 2021 (arXiv:2108.07278)  
<https://ui.adsabs.harvard.edu/abs/2021arXiv210807278F>

- 14 “Synergies between Vera C. Rubin Observatory, Nancy Grace Roman Space Telescope, and Euclid Mission: Constraining Dark Energy with Type Ia Supernovae,” Rose, B. M., G. Aldering, M. Dai, S. Deustua, R. J. Foley, E. Gangler, P. Gris, I. M. Hook, R. Kessler, G. Narayan, P. Nugent, S. Perlmutter, K. A. Ponder, B. Racine, D. Rubin, B. O. Sánchez, D. M. Scolnic, W. M. Wood-Vasey, D. Brout, A. Cikota, D. Fouchez, P. M. Garnavich, R. Hounsell, M. Sako, C. Tao, **S. W. Jha**, D. O. Jones, L. Strolger, and H. Qu, 2021 (arXiv:2104.01199)  
<https://ui.adsabs.harvard.edu/abs/2021arXiv210401199R>
- 13 “DESC DC2 Data Release Note,” LSST Dark Energy Science Collaboration, B. Abolfathi, R. Armstrong, H. Awan, Y. N. Babuji, F. E. Bauer, G. Beckett, R. Biswas, J. R. Bogart, D. Boutigny, K. Chard, J. Chiang, J. Cohen-Tanugi, A. J. Connolly, S. F. Daniel, S. W. Digel, A. Drlica-Wagner, R. Dubois, E. Gawiser, T. Glanzman, S. Habib, A. P. Hearin, K. Heitmann, F. Hernandez, R. Hložek, J. Hollowed, M. Jarvis, **S. W. Jha**, J. Bryce Kalmbach, H. M. Kelly, E. Kovacs, D. Korytov, K. S. Krughoff, C. S. Lage, F. Lanusse, P. Larsen, N. Li, E. P. Longley, R. H. Lupton, R. Mandelbaum, Y.-Y. Mao, P. Marshall, J. E. Meyers, J. W. Park, J. Peloton, D. Perrefort, J. Perry, S. Plaszczynski, A. Pope, E. S. Rykoff, F. J. Sánchez, S. J. Schmidt, T. D. Uram, A. Villarreal, C. W. Walter, M. P. Wiesner, and W. M. Wood-Vasey, 2021 (arXiv:2101.04855)  
<https://ui.adsabs.harvard.edu/abs/2021arXiv210104855L>
- 12 “Results of the Photometric LSST Astronomical Time-series Classification Challenge (PLAsTiCC),” Hložek, R., K. A. Ponder, A. I. Malz, M. Dai, G. Narayan, E. E. O. Ishida, T. Allam, A. Bahmanyar, R. Biswas, L. Galbany, **S. W. Jha**, D. O. Jones, R. Kessler, M. Lochner, A. A. Mahabal, K. S. Mandel, J. R. Martínez-Galarza, J. D. McEwen, D. Muthukrishna, H. V. Peiris, C. M. Peters, and C. N. Setzer, 2020 (arXiv:2012.12392)  
<https://ui.adsabs.harvard.edu/abs/2020arXiv201212392H>
- 11 “Recommended Target Fields for Commissioning the Vera C. Rubin Observatory,” Amon, A., K. Bechtol, A. J. Connolly, S. W. Digel, A. Drlica-Wagner, E. Gawiser, M. Jarvis, **S. W. Jha**, A. von der Linden, M. Moniez, G. Narayan, N. Regnault, I. Sevilla-Noarbe, S. J. Schmidt, S. H. Suyu, and C. W. Walter, 2020 (arXiv:2010.15318)  
<https://ui.adsabs.harvard.edu/abs/2020arXiv201015318A>
- 10 “Optimizing the LSST Observing Strategy for Dark Energy Science: DESC Recommendations for the Deep Drilling Fields and other Special Programs,” Scolnic, D. M., M. Lochner, P. Gris, N. Regnault, R. Hložek, G. Aldering, T. Allam Jr, H. Awan, R. Biswas, J. Blazek, C. Chang, E. Gawiser, A. Goobar, I. M. Hook, **S. W. Jha**, J. D. McEwen, R. Mandelbaum, P. Marshall, E. Neilsen, J. Rhodes, D. Rothchild, I. Sevilla Noarbe, A. Slosar, and P. Yoachim,

2018 (arXiv:1812.00516)

<http://adsabs.harvard.edu/abs/2018arXiv181200516S>

- 9 “Optimizing the LSST Observing Strategy for Dark Energy Science: DESC Recommendations for the Wide-Fast-Deep Survey,” Lochner, M., D. M. Scolnic, H. Awan, N. Regnault, P. Gris, R. Mandelbaum, E. Gawiser, H. Almoubayyed, C. N. Setzer, S. Huber, M. L. Graham, R. Hložek, R. Biswas, T. Eifler, D. Rothchild, T. Allam Jr, J. Blazek, C. Chang, T. Collett, A. Goobar, I. M. Hook, M. Jarvis, **S. W. Jha**, A. G. Kim, P. Marshall, J. D. McEwen, M. Moniez, J. A. Newman, H. V. Peiris, T. Petrushevska, J. Rhodes, I. Sevilla-Noarbe, A. Slosar, S. H. Suyu, J. A. Tyson, and P. Yoachim, 2018 (arXiv:1812.00515)  
<http://adsabs.harvard.edu/abs/2018arXiv181200515L>
- 8 “LSST Observing Strategy White Paper: LSST Observations of WFIRST Deep Fields,” Foley, R. J., A. M. Koekemoer, D. N. Spergel, F. B. Bianco, P. Capak, L. Dai, O. Dore, G. G. Fazio, H. Ferguson, A. V. Filippenko, B. Frye, L. Galbany, E. Gawiser, C. Gronwall, N. P. Hathi, C. Hirata, R. Hounsell, **S. W. Jha**, A. G. Kim, P. L. Kelly, J. W. Kruk, S. Malhotra, K. S. Mandel, R. Margutti, D. Marrone, K. B. W. McQuinn, P. Melchior, L. Moustakas, J. A. Newman, J. E. G. Peek, S. Perlmutter, J. D. Rhodes, B. Robertson, D. Rubin, D. Scolnic, R. Somerville, R. Street, Y. Wang, D. J. Whalen, R. A. Windhorst, and E. J. Wollack, 2018 (arXiv:1812.00514)  
<http://adsabs.harvard.edu/abs/2018arXiv181200514F>
- 7 “The Photometric LSST Astronomical Time-series Classification Challenge (PLAsTiCC): Data set,” The PLAsTiCC team, T. Allam Jr., A. Bahmanyar, R. Biswas, M. Dai, L. Galbany, R. Hložek, E. E. O. Ishida, **S. W. Jha**, D. O. Jones, R. Kessler, M. Lochner, A. A. Mahabal, A. I. Malz, K. S. Mandel, J. R. Martínez-Galarza, J. D. McEwen, D. Muthukrishna, G. Narayan, H. Peiris, C. M. Peters, K. Ponder, C. N. Setzer, The LSST Dark Energy Science Collaboration, The LSST Transients and Variable Stars Science Collaboration, 2018 (arXiv:1810.00001)  
<http://adsabs.harvard.edu/abs/2018arXiv181000001T>
- 6 “Science-Driven Optimization of the LSST Observing Strategy,” LSST Science Collaboration, P. Marshall, T. Anguita, F. B. Bianco, E. C. Bellm, N. Brandt, W. Clarkson, A. Connolly, E. Gawiser, Z. Ivezić, L. Jones, M. Lochner, M. B. Lund, A. Mahabal, D. Nidever, K. Olsen, S. Ridgway, J. Rhodes, O. Shemmer, D. Trilling, K. Vivas, L. Walkowicz, B. Willman, P. Yoachim, S. Anderson, P. Antilogus, R. Angus, I. Arcavi, H. Awan, R. Biswas, K. J. Bell, D. Bennett, C. Britt, D. Buzasi, D. I. Casetti-Dinescu, L. Chomiuk, C. Claver, K. Cook, J. Davenport, V. Debattista, S. Digel, Z. Doctor, R. E. Firth, R. Foley, W.-f. Fong, L. Galbany, M. Giampapa, J. E. Gizis, M. L. Graham, C. Grillmair, P. Gris, Z. Haiman, P. Hartigan, S. Hawley, R. Hložek, **S. W. Jha**, C. Johns-Krull, S. Kanbur, V. Kalogera, V. Kashyap, V. Kasliwal, R. Kessler, A. Kim, P. Kurczynski, O. Lahav, M. C. Liu, A. Malz, R. Margutti, T. Mathe-son, J. D. McEwen, P. McGehee, S. Meibom, J. Meyers, D. Monet, E. Neilsen, J. Newman, M. O’Dowd, H. V. Peiris, M. T. Penny, C. Peters, R. Poleski, K. Ponder, G. Richards, J. Rho, D. Rubin, S. Schmidt, R. L. Schuhmann, A. Shporer, C. Slater, N. Smith, M. Soares-Santos, K. Stassun, J. Strader, M. Strauss, R. Street, C. Stubbs, M. Sullivan, P. Szkody, V. Trimble,

T. Tyson, M. de Val-Borro, S. Valenti, R. Wagoner, W. M. Wood-Vasey, and B. A. Zauderer, 2017 (arXiv:1708.04058)

<http://adsabs.harvard.edu/abs/2017arXiv170804058L>

- 5 “The Hubble constant and new discoveries in cosmology,” Suyu, S. H., T. Treu, R. D. Blandford, W. L. Freedman, S. Hilbert, C. Blake, J. Braatz, F. Courbin, J. Dunkley, L. Greenhill, E. Humphreys, **S. Jha**, R. Kirshner, K. Y. Lo, L. Macri, B. F. Madore, P. J. Marshall, G. Meylan, J. Mould, B. Reid, M. Reid, A. Riess, D. Schlegel, V. Scowcroft, and L. Verde, 2012 (arXiv:1202.4459)

<http://adsabs.harvard.edu/abs/2012arXiv1202.4459S>

- 4 “Supernova Photometric Classification Challenge,” Kessler, R., A. Conley, **S. Jha**, and S. Kuhlmann, 2010 (arXiv:1001.5210)

<http://adsabs.harvard.edu/abs/2010arXiv1001.5210K>

- 3 “LSST Science Book, Version 2.0,” LSST Science Collaboration, P. A. Abell, J. Allison, S. F. Anderson, J. R. Andrew, J. R. P. Angel, L. Armus, D. Arnett, S. J. Asztalos, T. S. Axelrod, S. Bailey, D. R. Ballantyne, J. R. Bankert, W. A. Barkhouse, J. D. Barr, L. F. Barrientos, A. J. Barth, J. G. Bartlett, A. C. Becker, J. Becla, T. C. Beers, J. P. Bernstein, R. Biswas, M. R. Blanton, J. S. Bloom, J. J. Bochanski, P. Boeshaar, K. D. Borne, M. Bradac, W. N. Brandt, C. R. Bridge, M. E. Brown, R. J. Brunner, J. S. Bullock, A. J. Burgasser, J. H. Burge, D. L. Burke, P. A. Cargile, S. Chandrasekharan, G. Chartas, S. R. Chesley, Y.-H. Chu, D. Cinabro, M. W. Claire, C. F. Claver, D. Clowe, A. J. Connolly, K. H. Cook, J. Cooke, A. Cooray, K. R. Covey, C. S. Culliton, R. de Jong, W. H. de Vries, V. P. Debattista, F. Delgado, I. P. Dell’Antonio, S. Dhital, R. Di Stefano, M. Dickinson, B. Dilday, S. G. Djorgovski, G. Dobler, C. Donalek, G. Dubois-Felsmann, J. Durech, A. Eliasdottir, M. Eracleous, L. Eyer, E. E. Falco, X. Fan, C. D. Fassnacht, H. C. Ferguson, Y. R. Fernandez, B. D. Fields, D. Finkbeiner, E. E. Figuera, D. B. Fox, H. Francke, J. S. Frank, J. Frieman, S. Fromenteau, M. Furqan, G. Galaz, A. Gal-Yam, P. Garnavich, E. Gawiser, J. Geary, P. Gee, R. R. Gibson, K. Gilmore, E. A. Grace, R. F. Green, W. J. Gressler, C. J. Grillmair, S. Habib, J. S. Haggerty, M. Hamuy, A. W. Harris, S. L. Hawley, A. F. Heavens, L. Hebb, T. J. Henry, E. Hileman, E. J. Hilton, K. Hoadley, J. B. Holberg, M. J. Holman, S. B. Howell, L. Infante, Z. Ivezić, S. H. Jacoby, B. Jain, R. Jedicke, M. J. Jee, J. Garrett Jernigan, **S. W. Jha**, K. V. Johnston, R. L. Jones, M. Juric, M. Kaasalainen, Styliani, Kafka, S. M. Kahn, N. A. Kaib, J. Kalirai, J. Kantor, M. M. Kasliwal, C. R. Keeton, R. Kessler, Z. Knezevic, A. Kowalski, V. L. Krabben-dam, K. S. Krughoff, S. Kulkarni, S. Kuhlman, M. Lacy, S. Lepine, M. Liang, A. Lien, P. Lira, K. S. Long, S. Lorenz, J. M. Lotz, R. H. Lupton, J. Lutz, L. M. Macri, A. A. Mahabal, R. Mandelbaum, P. Marshall, M. May, P. M. McGehee, B. T. Meadows, A. Meert, A. Milani, C. J. Miller, M. Miller, D. Mills, D. Minniti, D. Monet, A. S. Mukadam, E. Nakar, D. R. Neill, J. A. Newman, S. Nikolaev, M. Nordby, P. O’Connor, M. Oguri, J. Oliver, S. S. Olivier, J. K. Olsen, K. Olsen, E. W. Olszewski, H. Oluseyi, N. D. Padilla, A. Parker, J. Pepper, J. R. Peterson, C. Petry, P. A. Pinto, J. L. Pizagno, B. Popescu, A. Prsa, V. Radcka, M. J. Raddick, A. Rasmussen, A. Rau, J. Rho, J. E. Rhoads, G. T. Richards, S. T. Ridgway,

B. E. Robertson, R. Roskar, A. Saha, A. Sarajedini, E. Scannapieco, T. Schalk, R. Schindler, S. Schmidt, S. Schmidt, D. P. Schneider, G. Schumacher, R. Scranton, J. Sebag, L. G. Sepala, O. Shemmer, J. D. Simon, M. Sivertz, H. A. Smith, J. Allyn Smith, N. Smith, A. H. Spitz, A. Stanford, K. G. Stassun, J. Strader, M. A. Strauss, C. W. Stubbs, D. W. Sweeney, A. Szalay, P. Szkody, M. Takada, P. Thorman, D. E. Trilling, V. Trimble, A. Tyson, R. Van Berg, D. Vanden Berk, J. VanderPlas, L. Verde, B. Vrsnak, L. M. Walkowicz, B. D. Wandelt, S. Wang, Y. Wang, M. Warner, R. H. Wechsler, A. A. West, O. Wiecha, B. F. Williams, B. Willman, D. Wittman, S. C. Wolff, W. M. Wood-Vasey, P. Wozniak, P. Young, A. Zentner, and H. Zhan, 2009 (arXiv:0912.0201)

<http://adsabs.harvard.edu/abs/2009arXiv0912.0201L>

- 2 “Type Ia supernova science 2010-2020,” Howell, D. A., A. Conley, M. Della Valle, P. E. Nugent, S. Perlmutter, G. H. Marion, K. Krisciunas, C. Badenes, P. Mazzali, G. Aldering, P. Antilogus, E. Baron, A. Becker, C. Baltay, S. Benetti, S. Blondin, D. Branch, E. F. Brown, S. Deustua, A. Ealet, R. S. Ellis, D. Fouchez, W. Freedman, A. Gal-Yam, **S. Jha**, D. Kasen, R. Kessler, A. G. Kim, D. C. Leonard, W. Li, M. Livio, D. Maoz, F. Mannucci, T. Matheson, J. D. Neill, K. Nomoto, N. Panagia, K. Perrett, M. Phillips, D. Poznanski, R. Quimby, A. Rest, A. Riess, M. Sako, A. M. Soderberg, L. Strolger, R. Thomas, M. Turatto, S. van Dyk, and W. M. Wood-Vasey, 2009 (arXiv:0903.1086)

<http://adsabs.harvard.edu/abs/2009arXiv0903.1086H>

- 1 “A Study of the Type Ia/II<sub>n</sub> Supernova 2005gj from X-ray to the Infrared: Paper I,” Prieto, J. L., P. M. Garnavich, M. M. Phillips, D. L. DePoy, J. Parrent, D. Pooley, V. V. Dwarkadas, E. Baron, B. Bassett, A. Becker, D. Cinabro, F. DeJongh, B. Dilday, M. Doi, J. A. Frieman, C. J. Hogan, J. Holtzman, **S. Jha**, R. Kessler, K. Konishi, H. Lampeitl, J. Marriner, J. L. Marshall, G. Miknaitis, R. C. Nichol, A. G. Riess, M. W. Richmond, R. Romani, M. Sako, D. P. Schneider, M. Smith, N. Takanashi, K. Tokita, K. van der Heyden, N. Yasuda, C. Zheng, J. C. Wheeler, J. Barentine, J. Dembicky, J. Eastman, S. Frank, W. Ketzeback, R. J. McMillan, N. Morrell, G. Folatelli, C. Contreras, C. R. Burns, W. L. Freedman, S. Gonzalez, M. Hamuy, W. Krzeminski, B. F. Madore, D. Murphy, S. E. Persson, M. Roth, and N. B. Suntzeff, 2007 (arXiv:0706.4088)

<http://adsabs.harvard.edu/abs/2007arXiv0706.4088P>

## Selected Talks, Posters, and Conference Proceedings

- “How Fast is the Universe Expanding? A Cosmic Controversy” Jennifer Chalsty Planetarium, Liberty Science Center (invited talk, 6/2022)
- “Type Ia Supernovae: Astrophysics and Cosmology,” 16th Marcel Grossman meeting (virtual invited talk, 7/2021)
- “Observations of White Dwarf Supernovae,” White Dwarfs from Physics to Astrophysics, KITP, UC Santa Barbara (virtual invited talk, 3/2021)
- “Cosmological Applications of Type Ia Supernovae,” New York University CCPP Astro Seminar (invited talk, 3/2020)
- “White Dwarf Supernovae: Astrophysics and Cosmology,” Center for Computational Astrophysics colloquium, Flatiron Institute (invited talk, 2/2020)
- “Near-infrared distances to type Ia supernovae,” Supernova Cosmology Analysis Meeting, KICP, University of Chicago (invited talk, 10/2019)
- “(The Progenitors of) Type Iax Supernovae,” Type Ia Supernova Progenitors conference, Lijiang, China (contributed talk, 8/2019)
- “We are the Messengers,” Enabling Multi-Messenger Astrophysics, Space Telescope Science Institute (invited talk, 4/2019)
- “Exploding Stars and the Accelerating Universe,” Jennifer Chalsty Planetarium, Liberty Science Center (invited talk, 4/2019)
- “LSST NextGen Science,” LSST NextGen workshop, Argonne National Laboratory (contributed talk, 4/2019)
- “Surveying the Accelerating Universe with Supernovae,” Stockton University Physics and Engineering Colloquium (invited talk, 11/2018)
- “Surveying the Accelerating Universe with Supernovae,” Colby College Physics & Astronomy Colloquium (invited talk, 10/2018)
- “Distances to (Nearby) Type Ia Supernovae,” The Extragalactic Distance Scale II, Munich Institute for Astro- and Particle Physics, Germany (invited talk, 6/2018)
- “Type Iax Supernovae,” Observational Signatures of Type Ia Supernovae III, Lorentz Centre, Leiden, The Netherlands (invited talk, 2/2018)
- “Surveying the Accelerating Universe with Supernovae,” University of Notre Dame Physics Colloquium (invited talk, 9/2017)
- “LSST Cadence for Supernova Cosmology,” Supernovae: The LSST Revolution, Northwestern University (contributed talk, 6/2017)



- “White Dwarf Supernovae: Physics and Cosmology,” Stockholm University Oskar Klein Centre Colloquium (invited talk, 5/2017)
- “Type Iax Supernovae,” American Astronomical Society 229th meeting, Grapevine, Texas (contributed talk, 1/2017)
- “White Dwarf Supernovae: Distances and Differences,” University of Toronto Astronomy Colloquium (invited talk, 11/2016)
- “White Dwarf Supernovae: Physics and Cosmology,” Rutgers Physics and Astronomy Colloquium (invited talk, 8/2016)
- “Type Iax Supernovae,” Supernovae Through the Ages, Rapa Nui, Chile (contributed talk, 8/2016)
- “Distances and Reddening to Type Ia Supernovae,” ISSI-Beijing Astronomical Distance Determination in the Space Age, Beijing, China (invited talk, 5/2016)
- “White Dwarf Supernovae,” American Museum of Natural History Astrophysics Seminar, New York (invited talk, 11/2015)
- “(Progenitors of) Type Iax Supernovae,” Carnegie Observatories SN Ia Progenitor Workshop, Pasadena, California (invited talk, 8/2015)
- “Surveying the Accelerating Universe with Supernovae,” Physics Colloquium, North Carolina State University (invited talk, 9/2014)
- “Type Iax Supernovae: Before and After,” conference on Type Ia Supernovae: Progenitors, Explosions, and Cosmology, Kavli Institute for Cosmological Physics, University of Chicago (invited talk, 9/2014)
- “Surveying the Universe with Type Ia Supernovae,” conference on the Extragalactic Distance Scale, Munich Institute for Astro- and Particle Physics, Germany (invited talk, 5/2014)
- “Distances to Type Ia Supernovae,” Cosmic Distance Scale workshop, Space Telescope Science Institute, Baltimore, Maryland (invited talk, 4/2014)
- “Type Iax Supernova (...continued),” Type Ia Supernova workshop, Institute for Advanced Study, Princeton, New Jersey (invited talk 2/2014)
- “Type Iax Supernovae,” Observational signatures of type Ia supernova progenitors II, Lorentz Center, University of Leiden, the Netherlands (invited talk 9/2013)
- “The Accelerating Universe,” Rutgers Quarknet Center (invited talk, 7/2013)
- “The Accelerating Universe,” New Jersey Astronomical Association meeting (invited talk, 4/2013)
- “Cosmology with Supernovae: Systematic Floors and New Windows,” Astrophysical Sciences Colloquium, Princeton University (invited talk, 4/2013)
- “The Accelerating Universe,” meeting of the New Jersey section of the American Association of Physics Teachers, Princeton, New Jersey (invited talk, 3/2013)

- “Cosmology with Supernovae: Progress and Prospects,” Astrophysics Seminar, American Museum of Natural History, New York (invited talk, 2/2013)
- “Surveying the Accelerating Universe with Supernovae,” Rutgers Astronomical Society (invited talk, 12/2012)
- “Cosmology with Supernovae: Progress and Prospects,” 13th Marcel Grossman meeting, Stockholm (invited talk, 7/2012)
- “Cosmology with Supernovae: Progress and Prospects,” CCPP Astrophysics Seminar, NYU (invited talk, 5/2012)
- “Surveying the Accelerating Universe with Supernovae,” Physics & Astronomy Colloquium, San Francisco State University (invited talk, 4/2012)
- “Dust Extinction and Intrinsic Colors of SN Ia:  $R_V$  is not enough,” Type Ia Supernovae in the Infrared workshop, University of Pittsburgh (invited talk, 3/2012)
- “The Accelerating Universe: What Does It Mean?” SLAC National Accelerator Laboratory Colloquium (invited talk, 3/2012)
- “Surveying the Accelerating Universe with Supernovae,” School of Physics Colloquium, Georgia Tech (invited talk, 3/2012)
- “The Hubble Constant from Type Ia Supernovae: Progress and Prospects,” Hubble Constant workshop, Kavli Institute for Particle Astrophysics and Cosmology, SLAC/Stanford (invited talk, 2/2012; workshop report: arXiv:1202.4459)
- “Peculiar Type-Ia Supernovae: Constraining Progenitors and Explosion Models,” IAU Symposium 281: Binary Paths to Type Ia Supernovae Explosions, Padova, Italy (contributed talk, 7/2011)
- “Seeing Red: Dust Extinction and Intrinsic Colors of Type Ia Supernovae,” Supernovae and their Host Galaxies conference, Sydney, Australia (invited talk, 6/2011)
- “Cosmology with Supernovae: Progress and Prospects,” Institute for Advanced Study Informal Astrophysics Seminar, Princeton, New Jersey (invited talk, 5/2011)
- “Cosmology with Supernovae: Progress and Prospects,” Stony Brook University Astronomy Seminar (invited talk, 5/2011)
- “Cosmology with Supernovae: Progress and Prospects,” Bok Prize Lecture (Colloquium), Harvard-Smithsonian Center for Astrophysics (invited talk, 5/2011)
- “Surveying the Accelerating Universe with Supernovae,” Physics and Astronomy Colloquium, Rutgers University (invited talk, 4/2011)
- “Reddening of Type Ia Supernovae: Implications for Progenitors,” Lorentz Center, University of Leiden, Netherlands (contributed talk, 9/2010)
- “Surveying the Universe with Supernovae,” New Jersey Astronomy Group, Montclair State Uni-

- versity, New Jersey (invited talk, 7/2010)
- “Surveying the Universe with Supernovae,” STAR Astronomy Club, Brookdale Community College, New Jersey (invited talk, 3/2010)
- “Cosmology with Supernovae: Progress and Prospects,” Astronomy Colloquium, Yale University (invited talk 2/2010)
- “Surveying the Universe with Supernovae,” Amateur Astronomers, Inc., Union County College, New Jersey (invited talk, 2/2010)
- “Cosmology with Supernovae: Progress and Prospects,” Pontifica Universidad Católica, Santiago, Chile (invited talk, 12/2009)
- “Surveying the Universe with Supernovae,” Tri-State Astronomy Conference, CUNY (invited talk, 10/2009)
- “SN 2002cx-like Supernovae: The Power of Nebular Spectroscopy,” Stellar Death and Supernovae, KITP, UC Santa Barbara (invited talk, 8/2009)
- “HST and Ground-Based Observations of SN 2008A: A Peculiar SN 2002cx-like Type Ia Supernova,” Curtis McCully, **S. W. Jha**, R. Chornock, M. Ganeshalingam, W. Li, J. Silverman, T. Steele, A. Filippenko, P. Garnavich, R. Foley, A. Riess, Stellar Death and Supernovae, KITP, UC Santa Barbara (poster, 8/2009)
- “The SDSS SN Survey: Cosmological Results,” The Invisible Universe, Palais d’UNESCO, Paris (contributed talk, 7/2009)
- “Clues to SN Ia Progenitors from the SDSS SN Survey,” SN Ia Progenitor Workshop, Princeton University (invited talk, 4/2009)
- “Quintessence or Dust? Progress and Prospects for SN Ia Cosmology,” Astrophysics Seminar, University of Pennsylvania (invited talk, 10/2008)
- “The SDSS SN Survey: Results and Prospects,” A Decade of Dark Energy, Space Telescope Science Institute May Symposium (contributed talk, 5/2008)
- “Quintessence or Dust? Progress and Prospects for SN Ia Cosmology,” Department of Astrophysical Sciences, Princeton University (invited talk, 4/2008)
- “The Low-z SN Ia Sample: Critical to Cosmology,” The Interconnection between Particle Physics and Cosmology 2007, Texas A&M (invited talk, 5/2007)
- “A Confounding Class of Peculiar Type Ia Supernovae?” Accretion and Explosion: the Astrophysics of Degenerate Stars, KITP, UC Santa Barbara (invited talk, 5/2007)
- “The Low-z SN Ia Sample: Critical to Cosmology,” Paths to Exploding Stars: Accretion and Eruption, KITP, UC Santa Barbara (contributed talk, 3/2007)
- “The SDSS SN Survey,” SN 1987A: 20 Years After, Supernovae and Gamma-Ray Bursters, Aspen

- Center for Physics (contributed talk, 2/2007)
- “Cosmology and Astrophysics from the SDSS SN Survey,” 23rd Texas Symposium on Relativistic Astrophysics, Melbourne, Australia (contributed talk, 12/2006)
- “Dark Energy and the Accelerating Universe,” Center for Talented Youth Space and Astronomy Day, SLAC (invited talks, 10/2006)
- “Nearby Type Ia Supernovae: Critical to Cosmology,” One Millennium After SN 1006 conference, Hangzhou, China (invited talk, 5/2006)
- “Surveying the Universe with Supernovae,” Beijing Normal University, China (invited talk, 5/2006)
- “Nearby Type Ia Supernovae,” INPA and Lawrence Berkeley National Laboratory (invited talk, 3/2006)
- “Surveying the Universe with Supernovae,” Department of Physics and Astronomy colloquium, Ohio University (invited talk, 3/2006)
- “Surveying the Universe with Supernovae,” Department of Physics and Astronomy seminar, Rutgers University (invited talk, 2/2006)
- “Surveying the Universe with Supernovae,” Lawrence Livermore National Laboratory (invited talk, 2/2006)
- “Cosmology with Supernovae: Today and Tomorrow,” KIPAC and Stanford University (invited talk, 1/2006)
- “Surveying the Universe with Supernovae,” Miller Institute for Basic Research in Science, University of California, Berkeley (invited talk, 5/2005)
- “Before the Future: Current Samples and Applications of Nearby SN Ia,” Ground-Based Supernova Surveys, Center for Cosmological Physics, University of Chicago (contributed talk, 11/2003)
- “Early Time Optical Follow-up of GRBs with KAIT,” IAU Colloquium 192, Supernovae (10 Years of SN 1993J), Valencia, Spain (contributed talk, 4/2003)
- “Nearby Type Ia Supernovae and Cosmology,” Dept. of Astronomy colloquium, UC Berkeley (invited talk, 4/2003)
- “Prompt Observations of GRB 021211 with KAIT,” **Jha, S.**, W. Li, R. Chornock, and A. V. Filippenko, American Astronomical Society Meeting 201, Seattle (poster, 1/2003)
- “Exploding Stars Near and Far,” Institute for Astronomy, University of Hawaii (invited talk, 11/2002)
- “Supernovae and Cosmology,” Fundamentals of Contemporary Astronomy taught by Prof. Rosanne Di Stefano, Harvard Summer School (guest lecture, 7/2002)
- “Type Ia Supernovae as Distance Indicators: From the Ultraviolet to the Infrared,” **Jha, S.**, R. P. Kirshner, P. M. Challis, and P. M. Garnavich, AAS Meeting 197, San Diego (talk, 1/2001)

- “New Observations of Type Ia Supernovae: More than Meets the Eye,” 20th Texas Symposium on Relativistic Astrophysics, Austin, TX (invited talk, 12/2000)
- “Current and Future Searches for High-Redshift Supernovae,” Theory Division, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA (talk, 11/2000)
- “Testing Cosmic Acceleration from Type Ia Supernovae,” **Jha, S.**, N. B. Suntzeff and the High-Z SN Search Team, International Astronomical Union Symposium 201, Manchester, UK (invited talk, 8/2000), proceedings (astro-ph/0101521)
- “Multicolor Observations of a Planetary Transit of HD 209458,” **Jha, S.**, D. Charbonneau, P. M. Garnavich, D. J. Sullivan, T. Sullivan, T. M. Brown, and J. L. Tonry, International Astronomical Union Symposium 202, Manchester, UK (poster, 8/2000)
- “Supernovae and the Hubble Constant,” **Jha, S.**, Optical and Infrared Division, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA (talk, 4/2000)
- “The Type-Ia Supernova 1998bu in M96 and the Hubble Constant,” **Jha, S.**, et al., 1999, American Astronomical Society Meeting 193, Austin, TX (poster)
- “Supernova Limits on the Cosmic Equation of State,” P. Garnavich, **S. Jha**, et al., 1999, American Astronomical Society Meeting 193, Austin, TX (poster)
- “Recent Supernova Light Curves,” **Jha, S.**, P. Garnavich, P. Challis, A. Soderberg, and R. Kirshner, 1997, Supernova Explosions: Their Causes and Consequences, Institute for Theoretical Physics, University of California at Santa Barbara, CA (poster)
- “Orbital Characteristics of Extrasolar Planets and Brown Dwarfs,” **Jha, S.**, 1997, 10th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, Cambridge, MA (poster)
- “Asteroseismology with the AFOE,” T. Brown, E. Kennelly, S. Horner, **S. Jha**, S. Korzennik, M. Krockenberger, P. Nisenson, and R. W. Noyes, 1997, 10th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, Cambridge, MA (poster)
- “The Hierarchical Triple System HD 109648,” **Jha, S.**, G. Torres, R. P. Stefanik, and D. W. Latham, 1997, *Baltic Astronomy*, 6, 55 (talk at “Thirty Years of Astronomy at the Van Vleck Observatory: A Meeting in Honor of Arthur R. Upgren,” Wesleyan University, CT, 4/1996)
- “The Membership of Upgren One,” R. P. Stefanik, J. R. Caruso, G. Torres, **S. Jha**, and D. W. Latham, 1997, *Baltic Astronomy*, 6, 137 (poster)
- “The AFOE Program of Extra-Solar Planet Research,” R. Noyes, **S. Jha**, S. Korzennik, P. Malloy, M. Krockenberger, P. Nisenson, T. Brown, E. Kennelly, and S. Horner, 1996, STSci Workshop on Planets Beyond the Solar System (poster)

plus 328 IAU Circulars and CBETs on supernovae, GRBs, and planets, from 1997 onwards,  
 50 GCN Circulars on gamma-ray burst afterglows from 1999 onwards,  
 164 Astronomer’s Telegrams on supernovae and transients from 2011 onwards,  
 and 85 Transient Name Server Classification Reports or AstroNotes from 2016 onwards.