Jerry A Sellwood – Curriculum Vitae

Contact Information

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Education and qualifications

1971	B.Sc. Honours in Physics	Bristol University, England
1972	Diploma in Education	Makerere University, Kampala, Uganda
1977	Ph.D. Astronomy	Manchester University, England

Professional career

2017 –	Affiliated Professor of Steward Observatory
	and Designated Campus Colleague, University of Arizona
1991 – 2017	Associate (to 1998) then Full (to 2013) then Distinguished Professor
	Dept. of Physics & Astronomy, Rutgers University, New Jersey
1990 – 1991	Associate Astronomer
	Space Telescope Science Institute, Baltimore
1986 – 1990	SERC Advanced Fellow
	Dept. of Astronomy, Manchester University, England
1984 – 1986	Research Fellow
	Kapteyn Laboratory, University of Groningen, The Netherlands
1980 – 1984	Research Associate
	Institute of Astronomy, Cambridge, England
1977 – 1979	NATO then ESO Fellow
	Stockholm Observatory, Sweden and ESO, Geneva, Switzerland

Memberships

1984 - present	Full member	American Astronomical Society, Div. Dyn. Astr.
1982 - present	Member	International Astronomical Union
1992 – 2006	Founder member	European Astronomical Society
1982 – 2006	Fellow	Royal Astronomical Society

Research interests

Dark matter, galactic structure, galaxy formation, stellar dynamics, accretion discs, star formation, N-body simulations, computational astrophysics. See http://www.physics.rutgers.edu/∼sellwood for more information.

Honors

February 2020: Elected "Legacy Fellow" of American Astronomical Society

April 2013: Rutgers Board of Trustees Award for Excellence in Research

May 2012: Winner of the Brouwer Award of the American Astronomical Society

April 1999: Graduate Teaching Award from Rutgers University Graduate School

Service

van Biesbroeck Prize Award Committee (Mar 2012 - Feb 2015)

Division of Dynamical Astronomy (of the AAS) Committe (July 2011 - June 2014)

Brouwer Award Selection Committee (Sept. 2006 – Sept. 2009, Chair 08/09)

AURA: University member representative (from July 99). Served on the Membership Committee and the Advisory Committee on Internationl Affiliates.

Member of *ad hoc* review panel for ST-DADS (1991)

Grant Review Panels or consultant for NSF, NASA, NRC, Canadian NSERC, British SERC/PPARC, Italian Ministry for University Research, International Science Foundation, Israel Science Foundation, Netherlands Organisation for Science Research (NWO), Research Foundation of Flanders (FWO Belgium), & Universiteit Gent Onderzoeksraad (Research Council). Time allocation committees for Hubble Space Telescope, Canada-France-Hawaii Telescope Time Allocation Committee, & British Panel for the Allocation of Telescope Time.

Recent Publications

Sellwood, J. A. & Carlberg, R. G. 2022, "Spiral instabilities: Mode saturation and decay" *MNRAS*, accepted Sep 28, 2022 (arXiv:2209.14256)

Sellwood, J. A. & Masters, K. L. 2022, "Spirals in Galaxies" *ARA&A*, **60**,pp73–120 (arXiv:2110.05615)

Sellwood, J. A. & Sanders, R. H. 2022, "The ultra-diffuse galaxy AGC 114905 needs dark matter", *MNRAS*, **514**, pp4008–17 (arXiv:2202.08678)

Sellwood, J. A. & Debattista, V. P. 2022, "Internally driven warps in disc galaxies", *MNRAS*, **510**, pp1375–82 (arXiv:2110.13964)

Sellwood, J. A. 2021, "Spiral instabilities: Little interaction with a live halo" *MNRAS*, *MNRAS*, **506**, pp3018–23 (arXiv:2107.00599)

Sellwood, J. A., Spekkens, K. & Eckel, C. S. 2021, "Uncertainties in Galaxy Rotation Curves" *MNRAS*, **502**, pp3843–3854 (arXiv:2101.02525)

Sellwood, J. A. & Carlberg, R. G. 2021, "Spiral instabilities: Linear and non-linear effects" *MNRAS*, **500**, pp5043–5055 (arXiv:2011.03041)

Sellwood, J. A. & Gerhard, O. E. 2020, "Three Mechanisms for Bar Thickening" *MNRAS*, **495**, pp3175–3191 (arXiv:2005.05184)

Sellwood, J. A. 2020, "Spiral instabilities in N-body Simulations: Emergence from noise II" *MNRAS*, **492**, pp3103–3106 (arXiv:2001.00855)

Sellwood, J. A. & Carlberg, R. 2019, "Spiral instabilities: Mechanism for recurrence" *MNRAS*, **489**, pp116–131 (arXiv:1906.04191)

Sellwood, J. A., Shen, J. & Li, Z. 2019, "The global stability of M33: still a puzzle" *MNRAS*, **486**, pp4710–4723 (arXiv:1902.07222)

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