# Physics 343 Lecture # 4:
# Lab # 2 + Statistics

# Lab # 2: more observations of the Sun...

**First part of lab: measure the aperture efficiency of the SRT.**

**Second part of lab: assess level of solar variability.**

**Most data will (again) be taken in service mode. For solar variability studies, you will create script fragments that will be merged to form a single master script. This will be run Friday, Saturday, Sunday, Monday, and Tuesday, and the data for your specific slot (see instructions) will be emailed to you.**

**19 emails + 1 office visit about Lab # 1. Don't be shy!**

# Some details about the SRT

**Digital receiver modes:**

    **1 = 500 kHz bandwidth, 64 channels (default)**

    **2 = 250 kHz bandwidth, 64 channels**

    **3 = 125 kHz bandwidth, 64 channels**

    **4 = 1218.75 kHz bandwidth, 156 channels**

**Current calibration scheme: raw data in instrument counts are automatically multiplied by "calcons" = 1.0 (vs. 0.12 from earlier) to obtain antenna temperatures in K. SRT software reports this antenna temperature on screen and in output files.**

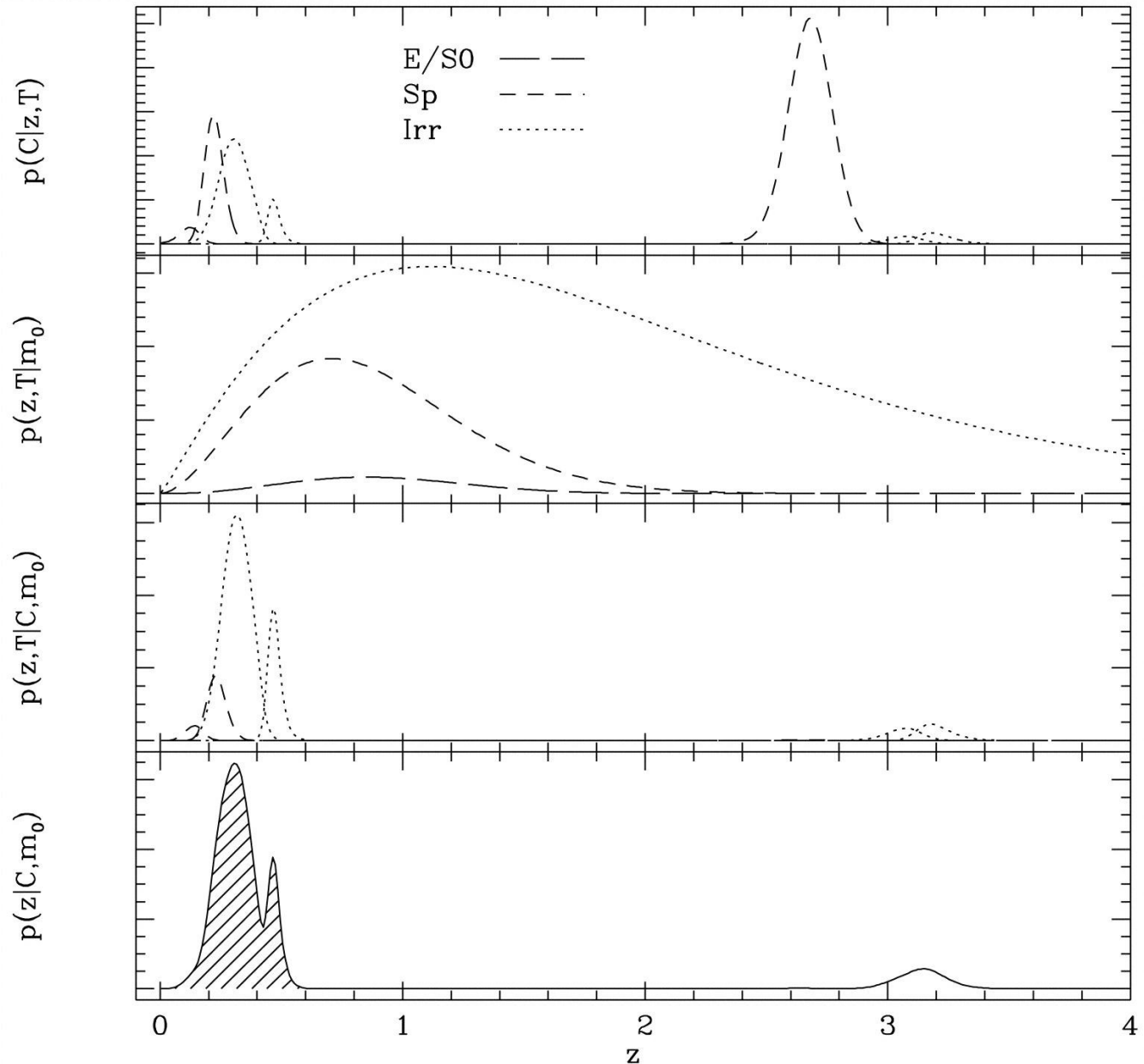# Example: Bayesian redshift estimation

**C = observed colors**

**z = redshift**

**T = type/template**

**$m_0$ = magnitude**

**Benitez (2000)**

# Quiz