

Galaxies

Dr Amanda Bauer

Australian Astronomical Observatory

Super Science Fellow



Australian Government
Department of Innovation
Industry, Science and Research





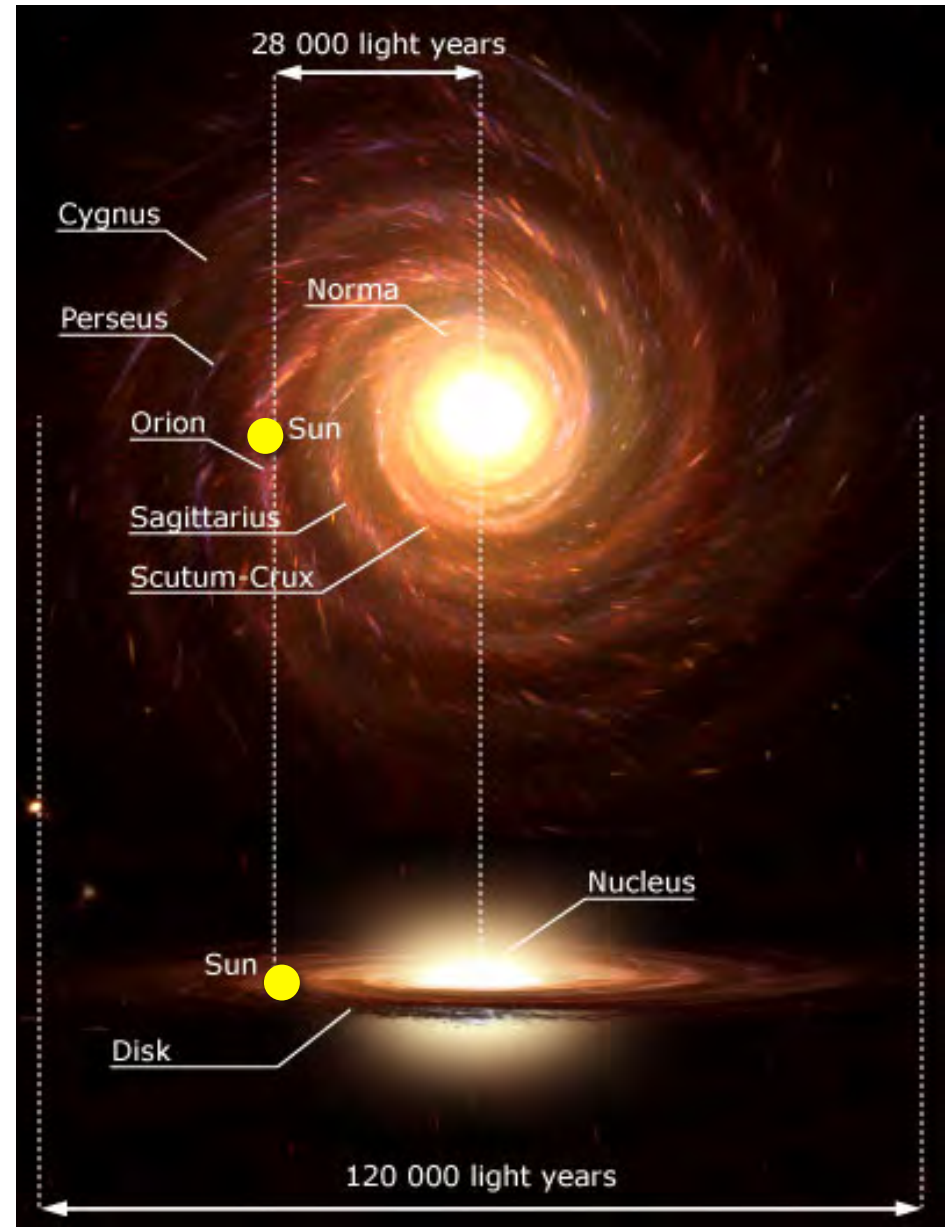
Miloslav Druckmuller



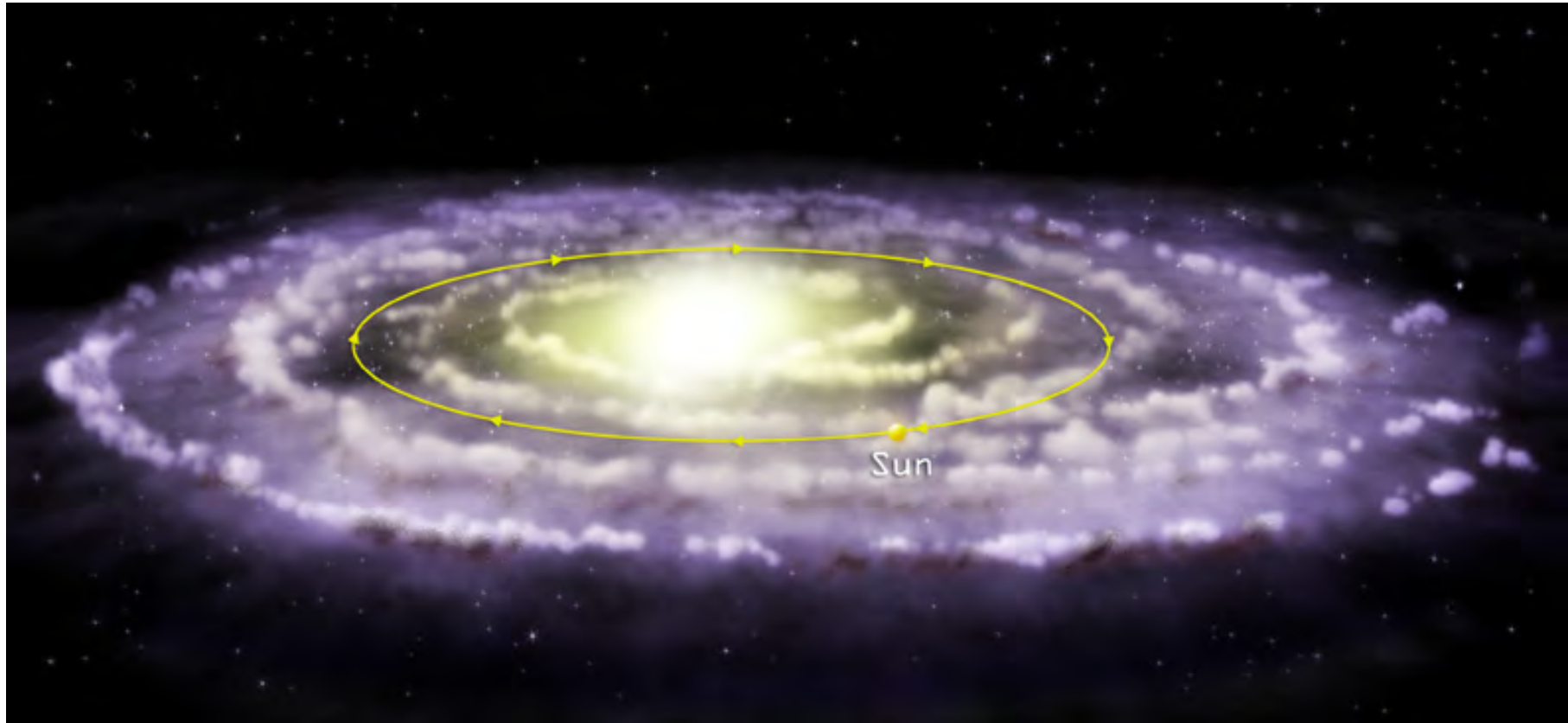
NGC 4565

Our Milky Way Galaxy

- 400,000,000,000 stars!
- super massive black hole
- gas
- dust
- supernovae
- spiral arms
- star clusters



The Solar System orbits around the Galaxy

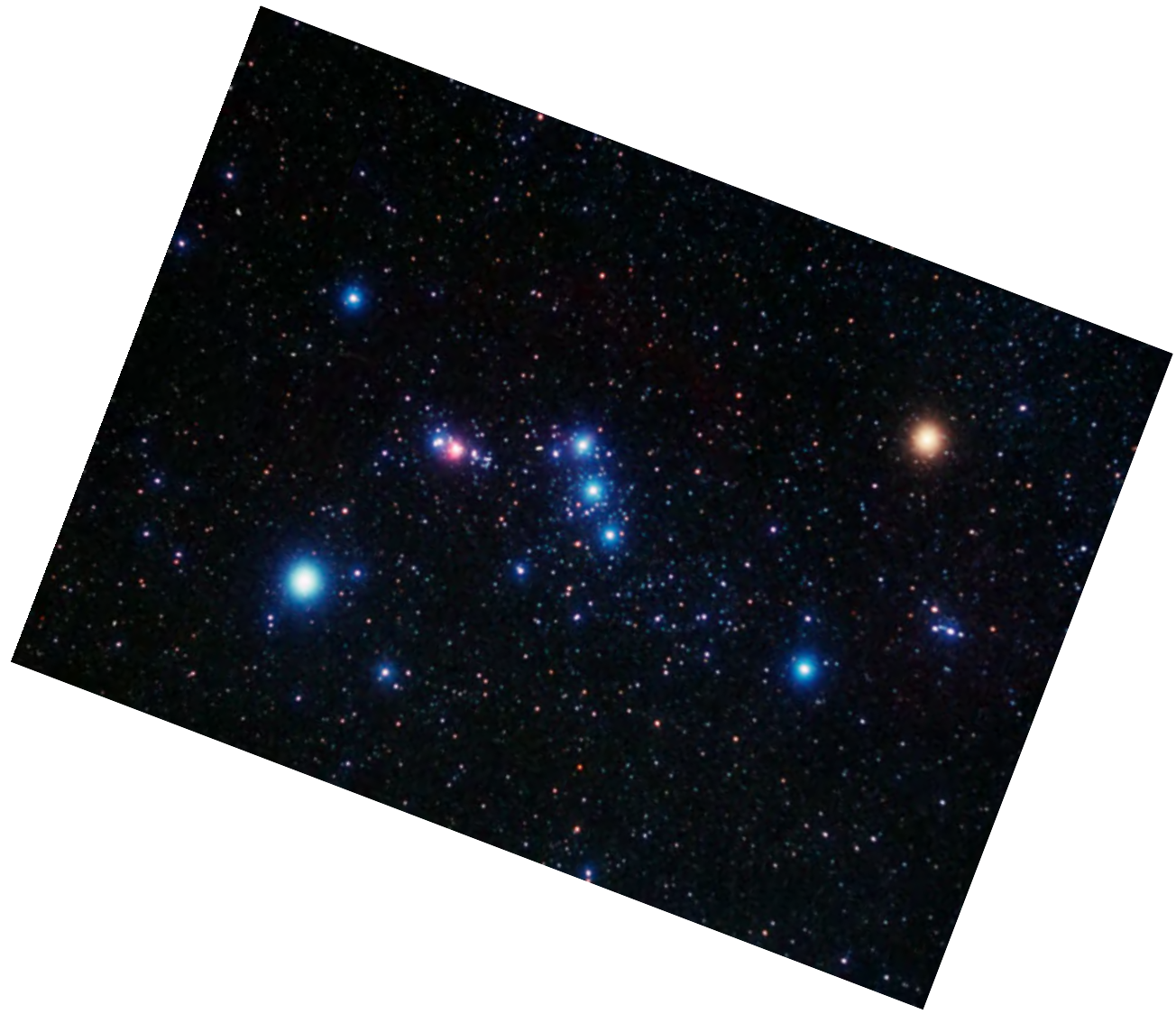




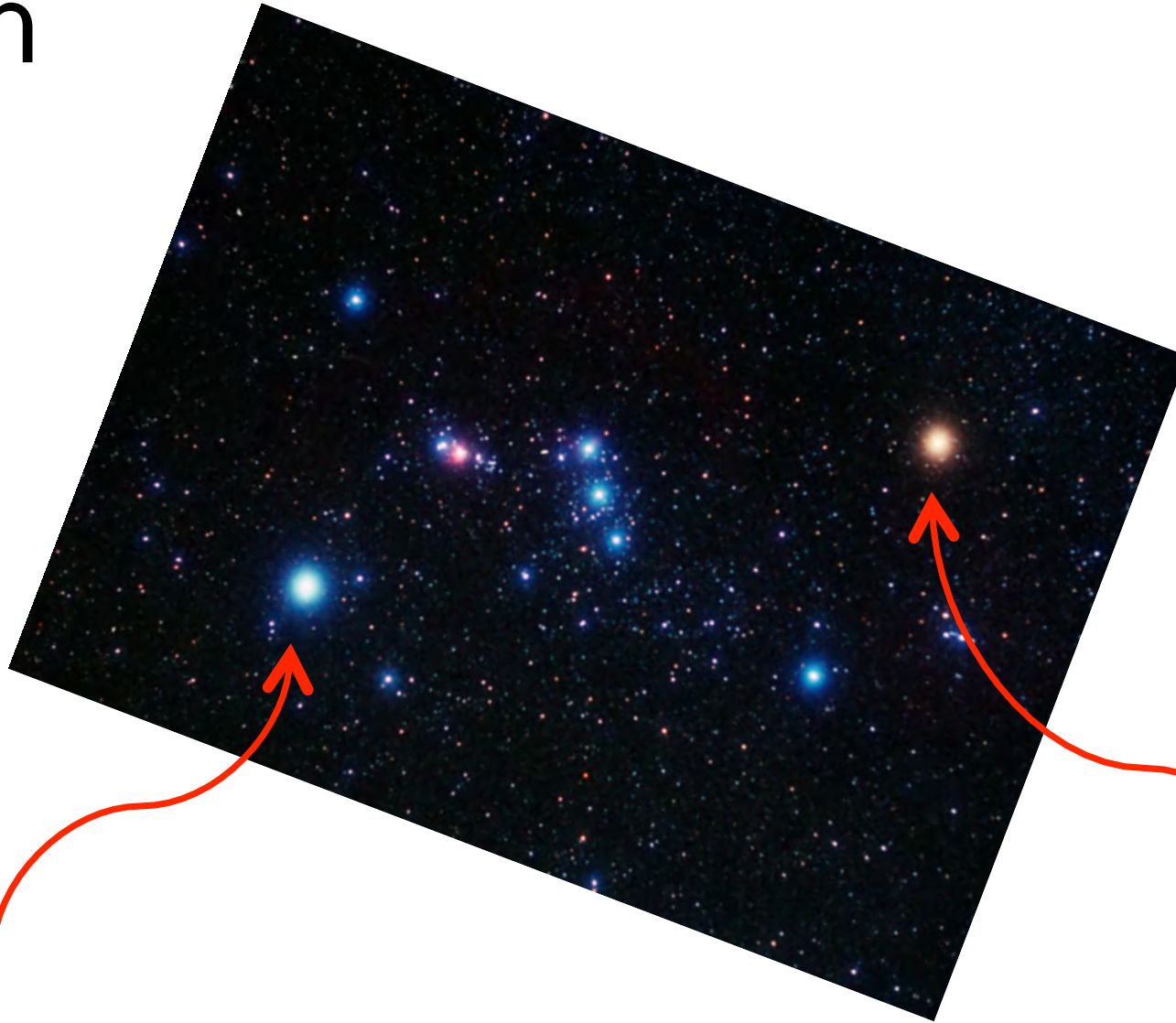


Andromeda (M31) Galaxy





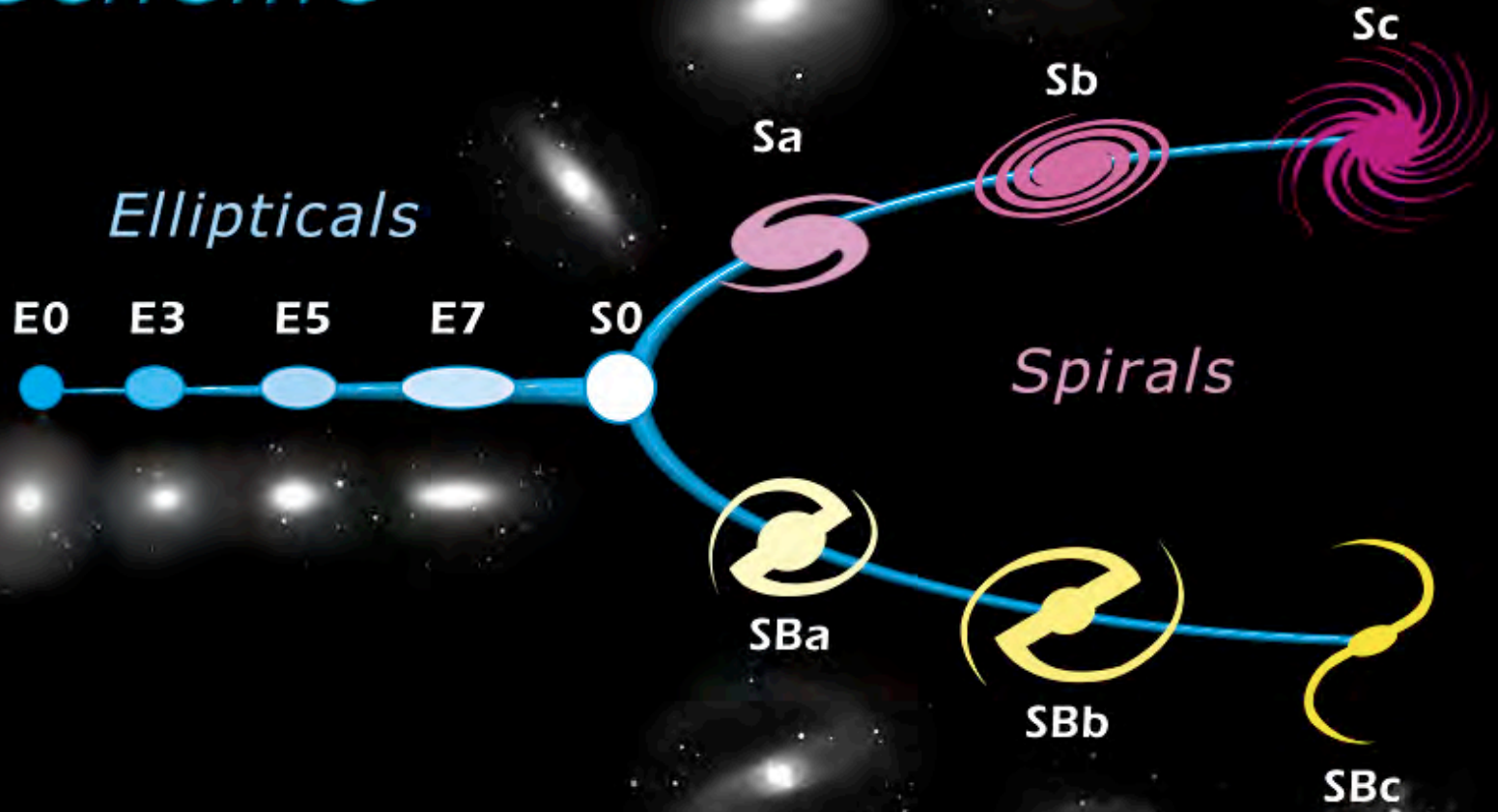
Orion



Rigel

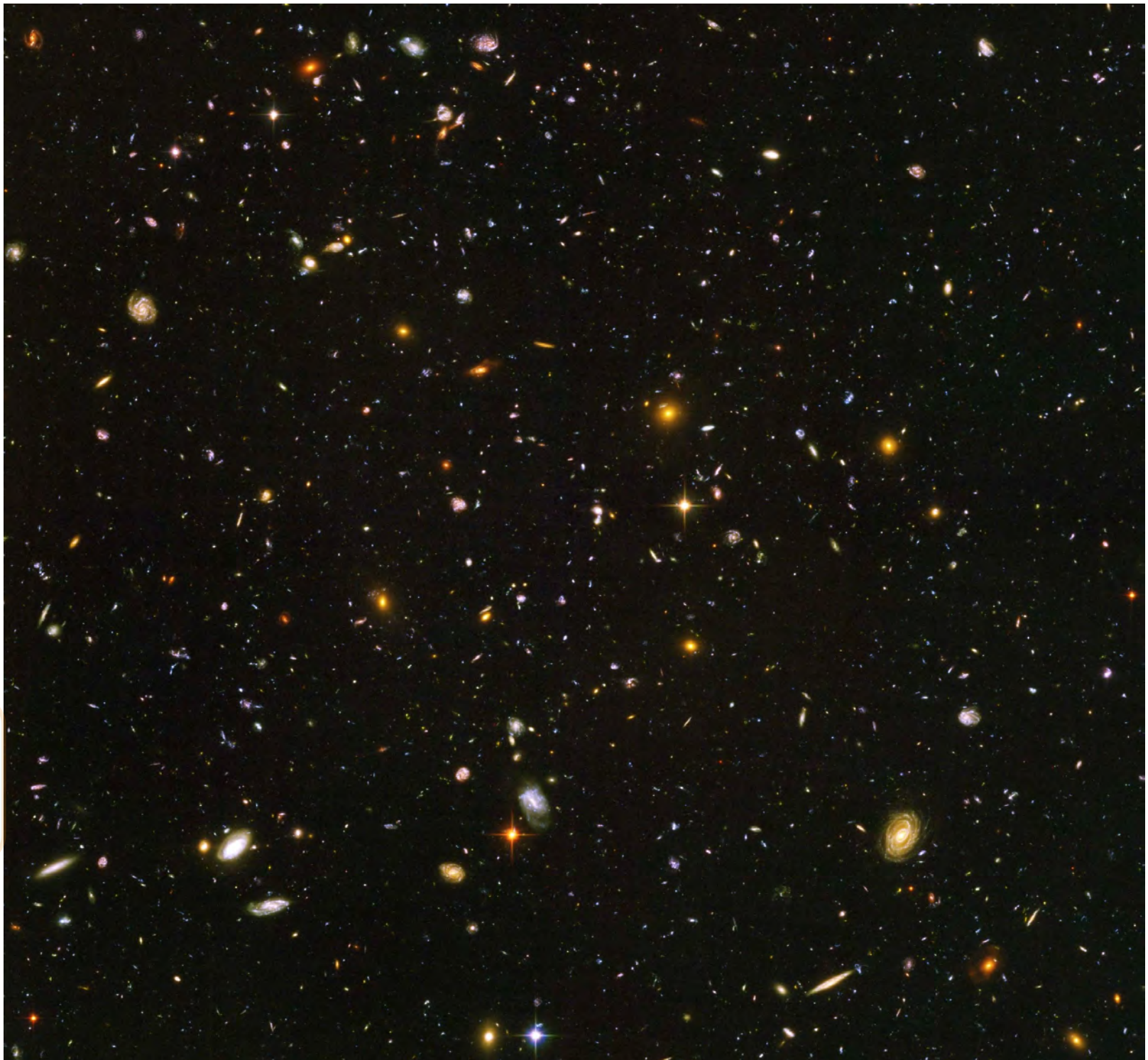
Betelgeuse

Edwin Hubble's Classification Scheme



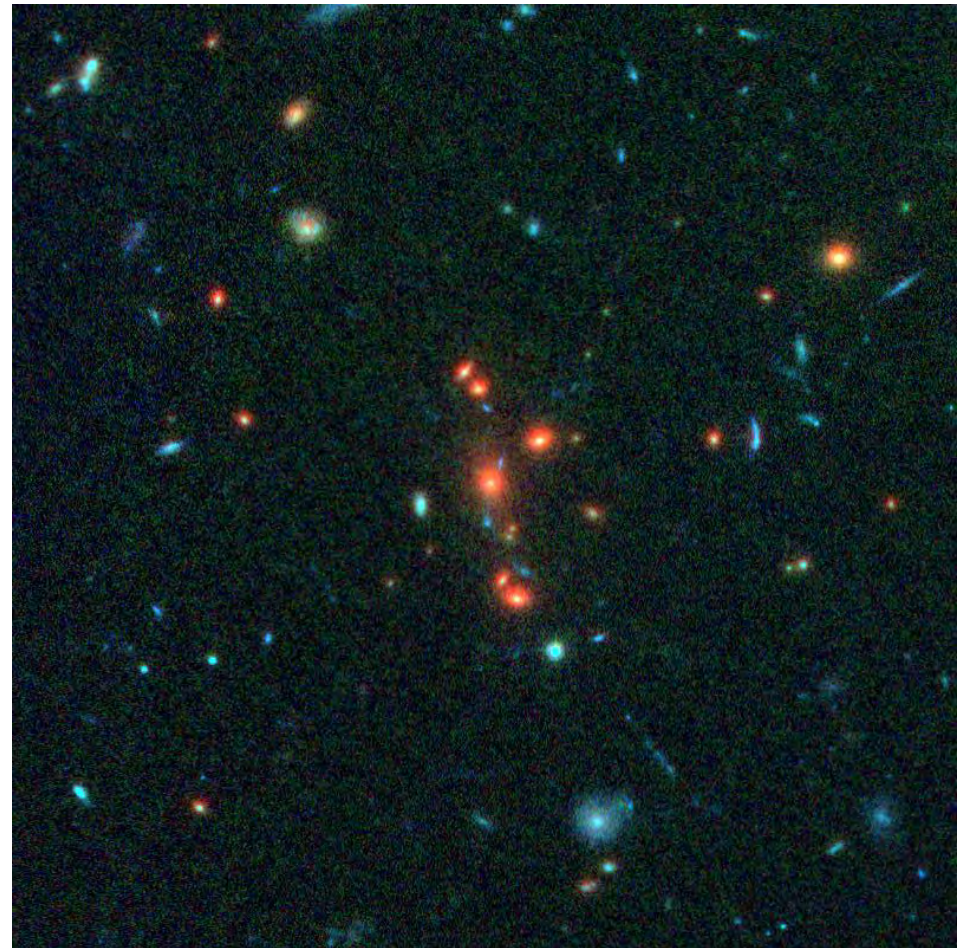
**Hubble
Ultra
Deep
Field**

10,000
Galaxies!



Mauna Kea, Hawaii

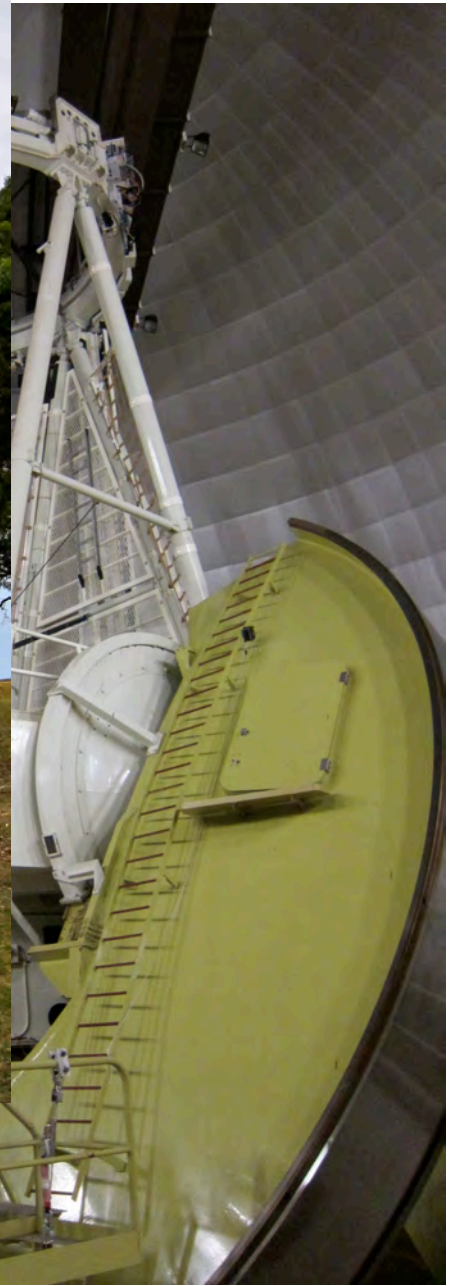
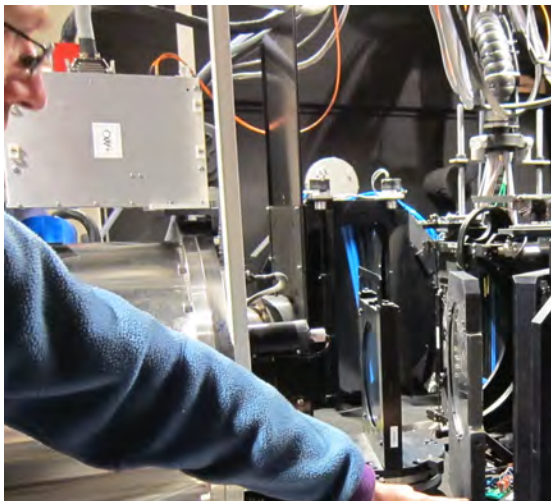


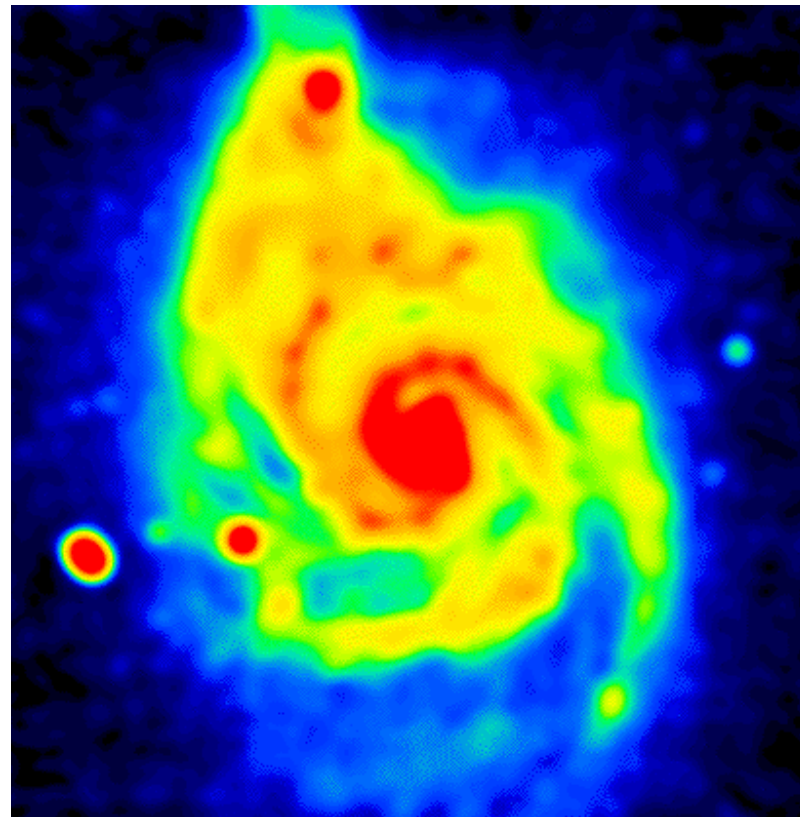
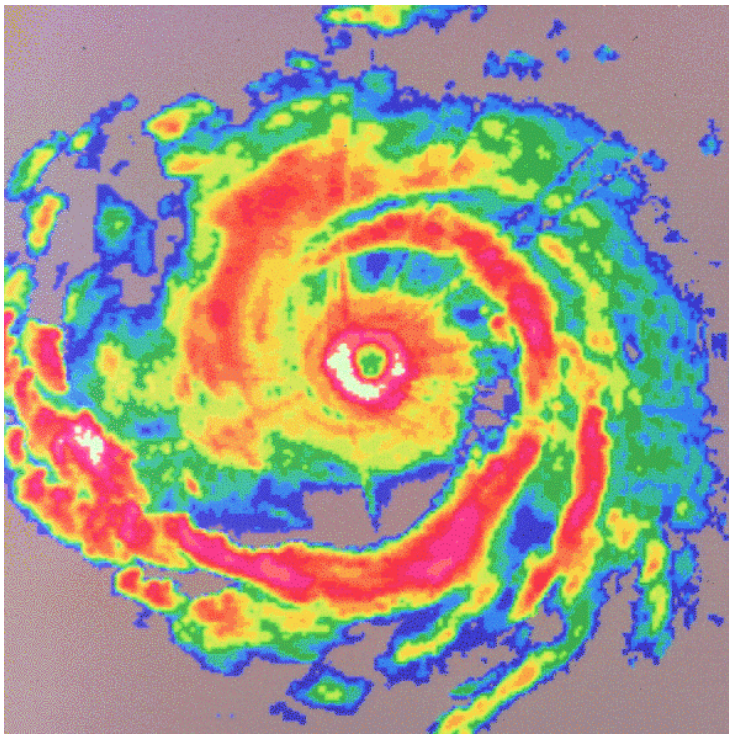


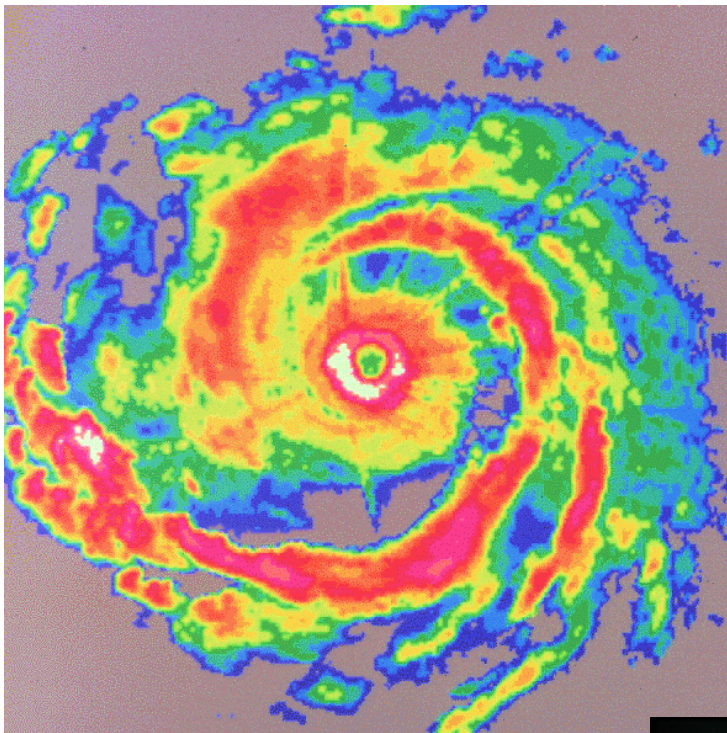
Thank You!

Dr. Amanda E. Bauer
amanda.bauer@aao.gov.au
@astropixie

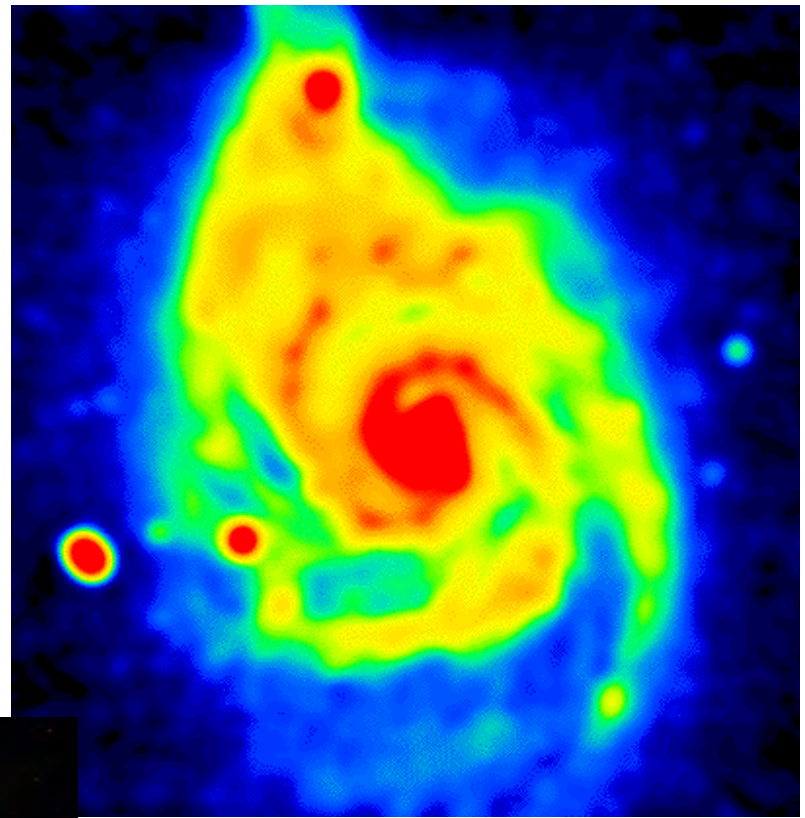




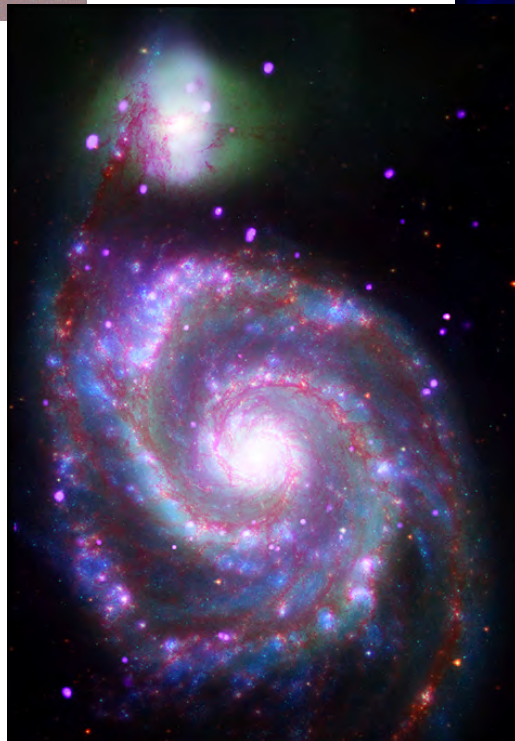




Hurricane Hugo



Whirlpool Galaxy
M51





M101, Sombrero Galaxy



NGC 1398



M51

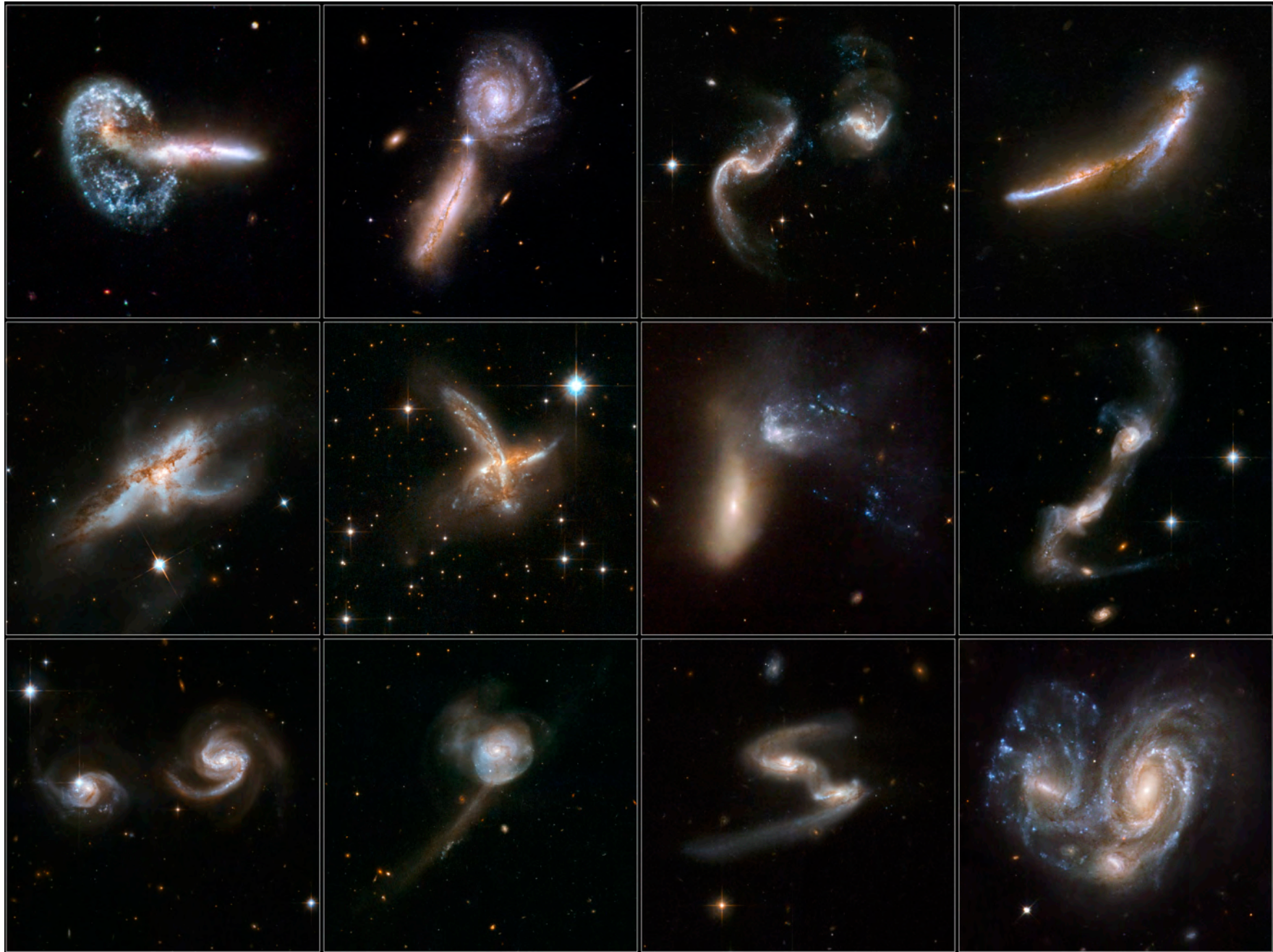


M59



The Mice, NGC 4676

Galaxy Mergers





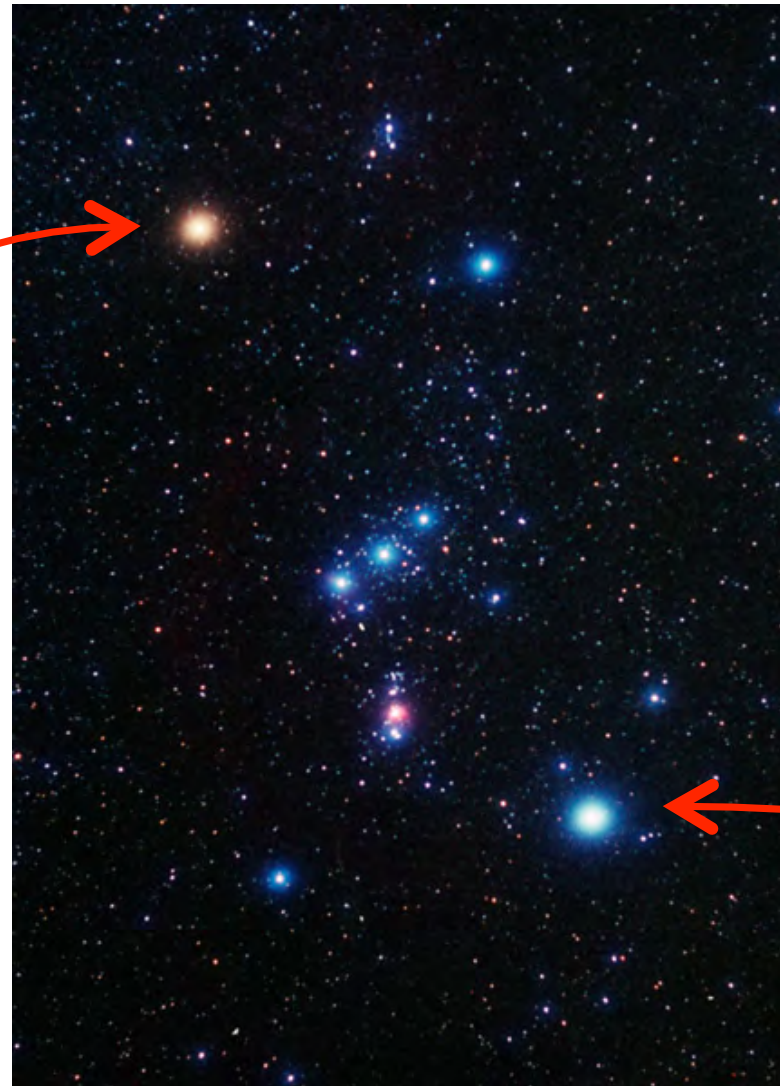
**Illustration Sequence of the Milky Way
and Andromeda Galaxy Colliding**

NASA, ESA, Z. Levay and R. van der Marel (STScI), T. Hallas, and A. Mellinger ■ STScI-PRC12-20b



Orion

Betelgeuse



Rigel