

April 11, 2019
MSE 2103 topics

- SCP (Perlmutter) vs. HzSS (Schmidt)
- Einstein's cosmological constant and dark energy
- John Mitchell's "dark bodies"
- Friedrich Bessel's inference of unseen objects from "wobbling"
- John Adams and Urbain le Verrier's prediction of Neptune
- James Jeans's "invisible stars"
- Fritz Zwicky's "cold dark matter" in the Coma galaxy cluster
- Sinclair Smith's corroboration with the Virgo cluster
- Fritz Kahn and Lodewijk Woltjer's "hot extragalactic matter"
- The advent of X-ray and gamma-ray astronomy
- Kepler's 3rd law meets Gauss' law
- Rotation curves of galaxies:
 - Horace Babcock's observation of M31
 - Vera Rubin's observations of the extended solar neighborhood