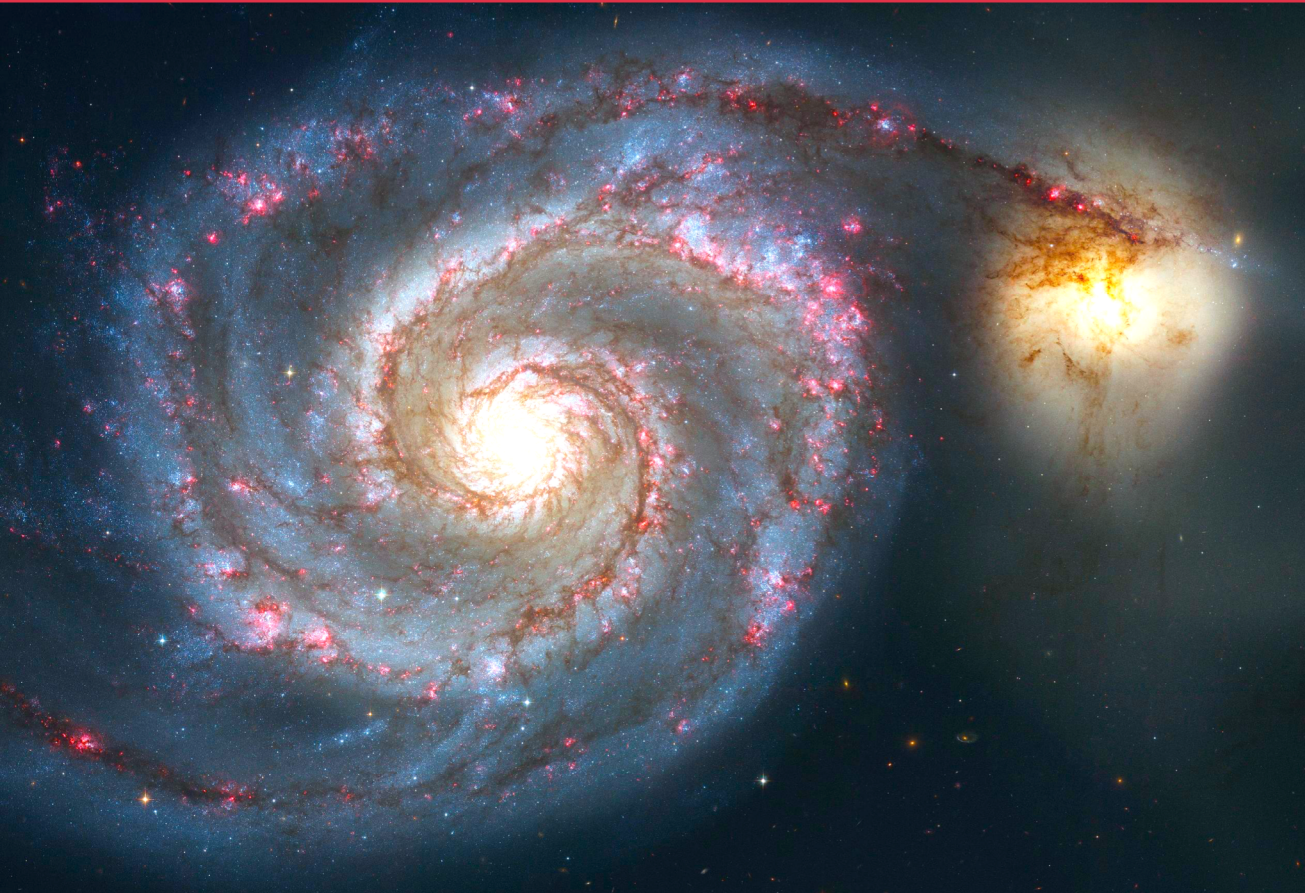


PHAS Colloquium:

Puzzles in Galaxy Scaling Relations



ABSTRACT

Galaxies like our Milky Way can be described in terms of their structure, dynamics, and stellar populations. Some very robust correlations between galaxy structural properties, such as total luminosity, maximum circular velocity, and size display rather small scatter, hinting at well-regulated galaxy formation processes. A major challenge to understanding these scaling relations, their tight scatter, and ultimately galaxy formation and evolution, is the elusive interplay between visible and dark matter. I will present the latest results on galaxy scaling relations in order to constrain modern structure formation models as well as the nature and distribution of dark matter in galaxies.

DATE: October 9, 2018

TIME: 2:30 PM

LOCATION: PSE 317

SPEAKER

Stéphane Courteau
Queen's University

**THERE WILL
BE SNACKS**

ALL ARE WELCOME

Image Description: The Whirlpool Galaxy
Image Credit: S. Beckwith (STScI) Hubble Heritage Team,
(STScI/AURA), ESA, NASA
Poster Designed By: Neil McCall (neiltmcl@my.yorku.ca)