PHY405: Galaxy Evolution

Dr. James Mullaney
F19 Hicks
j.mullaney@sheffield.ac.uk

May 12, 2017

1 Course description

This module will cover one of the most exciting and fast moving topics in current astrophysics research, the formation and evolution of galaxies from an observational perspective. Starting with a brief historical introduction, the module will then summarise what we can learn about galaxy evolution from studies of galaxies in the local Universe, before discussing the results obtained from recent deep field observations of the high redshift Universe. The last part of the module will concern the important role that active galactic nuclei play in galaxy evolution. The final lecture will cover the future of galaxy evolution over the next 10^{100}+ years.

2 Administration

2.1 Lectures

The course will consist of 18 lectures (+2 revision lectures) with two lectures held per week:

- Monday 10-11am; Hicks Building F20
- Tuesday 14-15am; Jessop Building 117

2.2 Assessment

- Exam: 70%; Answer three out of five questions.
- Coursework: 20%; Paper summaries – deadlines Friday 17$^{\text{th}}$ March and Friday 28th April (10% each).
- Presentation: 10%; 15 minutes (+5 minutes for questions) on a galaxy evolution topic pitched to your peers.

2.3 Office Hours

I'm happy to arrange dedicated office hours with you, should you wish. Alternatively, please speak with me after lectures or contact me to arrange a time.