

# School of Physics and Astronomy

## COLLOQUIUM



**Associate Professor Deanne Fisher  
Swinburne University**

### Surprising Successes and Dramatic Failures of Theories of Evolution and Star Formation in Galaxies of the Distant Universe

The problem of studying the evolution of galaxies is fundamentally challenging because the vast majority of cosmic star formation and galaxy evolution occurred 10 billion years ago. In galaxies that are very distant, and therefore faint spectral features and high spatial resolution structures are often impossible to observe. We therefore are limited in our ability to adequately test theories of star formation in the conditions in which roughly 80% of all stars in the Universe formed. I will discuss my groups efforts, in which we carry out novel sample selection to find galaxies in the local Universe that are identical in properties to those of the distant past. I will then use these galaxies as laboratories in which we can put models of the inner workings of galactic star formation to the test.

Date:	Wednesday 11 March
Time:	2pm
Venue:	L1, Seminar Room 107, 10 College Walk, Clayton