

Service d'Astrophysique
SÉMINAIRE

Mardi 20/05/2014, 10h00-11h00

CEA Saclay, Orme des Merisiers Bat 713, salle de séminaires Galilée

GALAXY MERGERS IN THE NEARBY UNIVERSE

SARA ELLISON

UVic, Canada

Galaxy mergers are known to trigger dramatic changes in galactic morphology, metallicity, star formation and black hole accretion rates. However, the extent to which these properties respond to the interaction can vary greatly both between different mergers, and at different times during a given interaction. In order to piece together a complete view of the changes that galaxies undergo during the interaction processes, we have been undertaking a large, multi-faceted investigation of galaxy mergers in the nearby universe. We have combined a large sample of galaxy pairs that span projected separations from a few kpc out to a Mpc, with a sample of post-mergers, all selected from the Sloan Digital Sky Survey (SDSS). Over such a separation range, this sample can be used to trace the galaxy merger population throughout their encounter in a homogeneous and statistically meaningful way. I will present the results from a series of papers on these merger results, which investigate many facets of the merger, including triggered star formation, gas content, accretion onto the central supermassive black hole and changes in galactic chemistry.

Le cafe sera servi 10 minutes avant

Contact : pascale.chavegrand@cea.fr - Tel : +33 1 69 08 78 27
http://irfu.cea.fr/Phocea/Vie_des_labos/Seminaires/index.php