

The environments of galaxies in the Laduma Survey

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Project Description:

Laduma is one of the MeerKAT large survey projects. It will observe a region of the sky known as the Chandra Deep Field South for thousands of hours to find the gas in galaxies out to high redshifts. In order to analyse the properties of galaxies observed by Laduma and determine what kind of environments they are in, it is necessary to know their distances, and so we are undertaking a multi-semester project to measure the redshifts of Laduma galaxies using SALT.

This project involves measuring the environmental parameters of Laduma galaxies to determine whether they are isolated or in dense regions, using all the available spectroscopy in the Laduma field. It will require reducing SALT spectroscopic data that is already in hand to measure galaxy redshifts, selecting interesting new samples for future Laduma science and planning further observations of these targets. You will obtain valuable experience in multi-object spectroscopic data reduction and programming in python, and join the international MeerKAT collaboration. There is potential for continuing onto a long-term project with Laduma.

Please feel free to email or come and discuss this with us!

Useful links:

The Laduma Project page: <http://www.ast.uct.ac.za/laduma/>

