

# Seminar

Friday, 18 September 2009

11 am - Room 701

## Dr Achim Weiss

Visiting Erskine Fellow (1 September - 30 October)

[Max Planck Institute of Astrophysics](#), Germany

### ***A systematic look at the Initial-Final Mass Relation***

The Initial-Final Mass Relation (IFMR) for low- and intermediate- mass stars connects the beginning and end of stellar evolution.

It is important for an assessment of the importance of mass loss, for the final fate of stars, the types of supernovae that can be expected, but also for the internal physics of stars, as will be shown. Its determination depends on a variety of observational data and theoretical models. In both fields large progress has been made in recent years such that a new look at the IFMR was warranted, about which I will report. In particular, I will discuss systematic uncertainties, which are usually ignored, and present robust and tentative results. One of them is that from the IFMR we do not see evidence for the existence of super-AGB stars.

***All Welcome***

#### Contact Details

For further information phone 364 2404, or visit our website: [www.phys.canterbury.ac.nz](http://www.phys.canterbury.ac.nz)