Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Title:

Magnetic Field of variable cool and evolved stars: Interaction with complex atmospheric dynamics

Abstract:

Recent spectropolarimetric studies have revealed the presence of magnetic fields at the surface of cool and evolved stars, such as Red Super Giants, Asymptotic Giant Branch (AGB) stars and Post AGB stars. With NARVAL@TBL we have initiated in March 2015 a 2-years campaign dedicated to a sample of cool and evolved stars. We intend to monitor along their pulsation period the variables targets among this sample, namely Mira (AGB) and RV Tauri (Post-AGB) stars, so as to study the interaction between the complex atmospheric dynamics and their surface magnetic field. First results will be presented.