

Workshop

Stellar End Products: The Low Mass - High Mass Connection

ESO Garching, 6-10 July, 2015

Agnès Lèbre (*invited*)

University of Montpellier, France

Michel Aurière, Nicolas Fabas, Renada Konstantinova-Antova, Pascal Petit and Laurence Sabin

Title:

Surface Magnetism of Cool and Evolved Stars: the harvest from the spectropolarimetric instruments

Abstract:

Modern spectropolarimeters (Narval@TBL; ESPaDOnS@CFHT; HARPSol@3.6m) have revealed the presence and the characteristics of surface magnetic fields in cool and evolved stars. After briefly introducing the technics for observation and analysis of spectropolarimetric data, I will review recent results concerning stars located along the Red Giant Branch, along the Asymptotic Giant Branch and in the subsequent evolutionary stages (post-AGB stars and Planetary Nebulae), as well as their massive counterparts (Red Supergiants). Then, I will present the perspectives from NIR spectropolarimetry (e.g. SPIRou@CFHT).