

Workshop

Stellar End Products: The Low Mass - High Mass Connection

ESO Garching, 6-10 July, 2015

Pierre Kervella (*invited*)

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Title:

The atmosphere of red supergiants at high angular resolution

Abstract:

The low effective temperature and gravity of red supergiants (RSGs) combine to create a particularly interesting convection regime, characterized by very large cells. The angular diameter of nearby red supergiants as Betelgeuse and Antares is so large that their photosphere is easily resolved by optical interferometry. Further away, the molecular and dusty envelopes are resolvable with single dish optical telescopes and millimeter radio interferometry. I will present an (incomplete) overview of the contributions of high angular resolution observations of RSG atmospheres in the recent years.