Workshop

**Stellar End Products: The Low Mass - High Mass Connection**

ESO Garching, 6-10 July, 2015

Rau, Gioia

**Title:**
The carbon star adventure continued: modelling atmospheres of a set of C-rich AGB stars

**Abstract:**
We present a study of a set of C-rich AGB stars to improve our understanding of the dynamic processes happening in their atmospheres. For the first time we compare in a systematic way spectrometric, photometric and interferometric measurements with different types of model atmospheres: 1) hydrostatic models+MOD-dusty added a posteriori; 2) self-consistent dynamic model atmospheres that allow to interpret in a coherent way the dynamic behaviour of gas and dust. Results demonstrate that the combined use of different types of observations is crucial for understanding the atmosphere of C-rich AGBs.