

*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.