

Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Title:

Improving models of stellar populations with mass-losing TP-AGB stars

Abstract:

The STARKEY project aims at providing a large database of models of TPAGB stars calibrated on resolved stellar systems. We describe the improvements in the modelling of the dust chemistry and its effects on the spectra, computed with MoD and coupled with the COMARCS spectral library. Calculations cover a wide range in Z , mass-loss, C/O, L, T_{eff} and M. TP-AGB dusty models are incorporated in our PARSEC+COLIBRI isochrones and in the population synthesis code TRILEGAL to simulate the NIR and MIR photometry of stellar systems. We will present preliminary comparisons with data for the galaxy M33.