Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Title:
The Dusty Environment Around AGB Stars And Supergiants - Comparing Model Approaches

Abstract:
Different approaches for describing the dusty environment around AGB stars and Supergiants are compared. We discuss simple radiative transfer codes where the structure and dust condensation need to be assumed, stationary wind models where mass loss rate and initial gas velocity have to be given and dynamical models for shocks and dust driven winds where the pulsation is prescribed. The advantages and problems of the methods are investigated and we demonstrate their limitations concerning different astrophysical situations and observables. Emphasis will be put on dust temperatures and opacities.