

Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Title:

Investigating the wind-driving mechanism in R Doradus

Abstract:

We present a very comprehensive study of the circumstellar envelope of the oxygen-rich asymptotic giant branch (AGB) star R Doradus. We modelled observations obtained with different instruments: SPHERE/ZIMPOL, PACS, HIFI, SPIRE, the infrared space observatory, and ground-based radio telescopes. This wealth of data probe both the gas- and solid-phase components of the wind in a complementary way. We focus on studying the acceleration region of the wind and our results give important constraints on the poorly-understood wind-driving mechanism of oxygen-rich AGB stars.