Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Danilovich, Taissa

Title:

Sulfur-bearing molecules in the AGB star R Doradus

Abstract:

We present new observations of the sulphur molecules SO and SO2 towards the M-type AGB star R Dor. Combining spectral scan observations from Herschel/HIFI and APEX, we have 16 and 99 lines detected from SO and SO2, respectively. This allows us to put good constraints on the SO and SO2 abundances and their line-emitting regions in the circumstellar envelope of R Dor. We present our new observations and preliminary results from radiative transfer modelling.