

Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Miguel Montargès
IRAM, France

Title:

The dusty disk and companion of L2 Puppis, the nearest AGB star, observed with VLT/SPHERE

Abstract:

We obtained polarimetric images of L2 Pup in the visible with ZIMPOL. The 16 mas angular resolution allowed us to confirm the circumstellar disk previously imaged in the infrared by Kervella et al. (2014) and Lykou et al. (2015). The spectrum and morphology are well reproduced by an almost edge-on amorphous silicate flared disk. Various spirals are visible in the disk, as well as plumes extending perpendicular to the disk. The degree of linear polarization gives access to the 3D geometry. We also discovered a companion at 2 AU, whose photometry is consistent with a late K giant.