The nearby AGB star L₂ Puppis

Pierre Kervella

CNRS/U. de Chile UMI FCA 3386 & LESIA, Observatoire de Paris and many collaborators (M. Montargès, E. Lagadec, O. Chesneau,...)

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- Second nearest AGB star (64 ± 4 pc, mv~5) after R Doradus (~55 pc)
- Long term, slow dimming event ongoing since 15 years (Bedding et al. 2002)





L2 Puppis 1980-2011



NACO "Lucky imaging" 1.04-4.05 µm



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1.09 µm (NACO)













ZIMPOL Total Intensity



































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- Photometry and general morphology are well reproduced





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- Total dust mass: 2.4 10⁻⁷ M_{Sun} ~ 0.08 M_{Earth}





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- What is the nature of the companion ?