

Workshop

Imaging of Stellar Surfaces

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Title:

The Evolving Shapes of the Radio Photospheres of Long-Period Variables Stars

Abstract:

I will summarize results from recent high-resolution imaging observations of AGB stars at millimeter wavelengths with the JVLA and ALMA. Our new data provide evidence that the shapes of the radio photospheres of AGB stars change on timescales of several months or more. In addition, the data reveal signatures of brightness asymmetries and non-uniformities. Together these trends are consistent with manifestations of large-scale irregular convective flows on the stellar surfaces. I will also briefly discuss the application of new imaging techniques to the interpretation of these data.