
Binary stars within multipolar planetary nebulae

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Abstract

We undertook a 3D-model analysis of several planetary nebulae which show quite complicated geometries - quadrupolar or even more. The first IFU spectra from an ongoing observing project with ARGUS instrument at ESO were obtained for M 3-38. We present here the spatial and kinematical structure of this nebula and discuss it in the context of indirect evidences of central binary system like: high-velocity extended bipolar outflows, compact dusty inner torus, complex of recombination emission lines near 465 nm.

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