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TITLE: 3D photoionization and kinematical reconstruction of PN H 2-18

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ABSTRACT:

The Planetary Nebula H 2-18 is analysed with the full-3D capabilities of the MOCASSIN code. The collected HST images help to constrain the density distribution while the ARGUS 2D spectroscopy provides a new and unique information on kinematics what constrains the velocities within the observed structures. We will estimate the mass and momentum of differently shaped stellar ejecta, their mass-loss history, and we will discuss the origin of multipolar structures.