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TITLE: The planetary nebula IC4997: variability and formation

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ABSTRACT:

IC4997 is planetary nebula well known by its variability. It shows a double shell morphology consisting of an outer bipolar shell and an inner, very compact elliptical shell. We present a study of IC4997 based on high-resolution échelle spectroscopy with the aim of monitoring the changes in the H α emission line profile recently reported, and of analyzing the internal kinematics of the object. From these data we propose a scenario to account for the changes in the H α emission line profile and try to constrain the possible origin of its inner shell.