

Contributed Talk

Splinter HotStars

THE BORN-AGAIN PLANETARY NEBULAE ABELL 30 AND ABELL 78

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The born-again scenario was suggested in the 1980s to explain the formation of hydrogen-deficient central stars of planetary nebulae.

The planetary nebulae Abell 30 and Abell 78 are such born-again nebulae, which are believed to have undergone a very late thermal pulse, resulting in the ejection of hydrogen-poor material.

We present the results of kinematic analyses of the expanding nebulae of these objects together with multi-wavelength spectral analyses of the nebulae and their central stars, aiming to probe the born-again scenario. We discuss whether this evolutionary channel can also explain the formation of other hydrogen-deficient central stars.