

Constraints on the parameters of the unseen pulsar in the PWN G0.9+0.1 from radio, X-ray and VHE gamma-ray observations

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ABSTRACT: Radio, X-ray, and H.E.S.S. gamma-ray observations of the galactic center composite SNR G0.9+0.1 are used to constrain a time-dependent injection model of the downstream electron spectrum responsible for the total multi-wavelength spectrum. The effect of spindown power and nebular field evolution is employed to reproduce the present-day multi-wavelength spectrum. This paper will investigate the level to which we can constrain especially the evolutionary history of the spindown power.