

Magnetized Vela X-1

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ABSTRACT

We present the results of recent observations of a well known HMXB Vela X-1 with Suzaku and review other observed characteristics of a system with aim to estimate the magnetic field of the neutron star. We conclude, that the observed long pulse period of 283.5 s and its evolution, the "off-states", the observed quasi-periodic oscillations and the noise power spectrum of the X-ray emission may be consistently explained if the neutron star has a magnetic field greater than 10^{13} G.