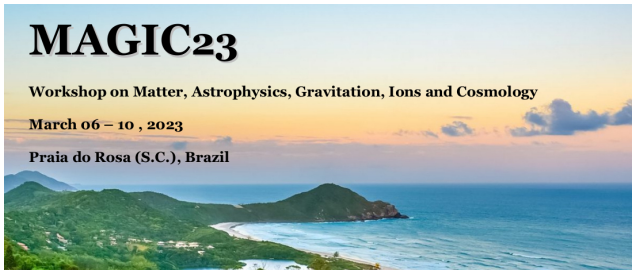

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The spin-down and magnetic inclination angle evolutions under the vacuum and plasma-filled models

The inclination angle χ between the magnetic and rotation axes of pulsars is an important physical parameter, whose change would lead to observable effects, such as varitions in the pulse beam width and braking index of the star. In this paper, we first give a comparison between the vacuum model and the plasma-filled model, then investigate the magnetic inclination angle change rates for 12 high-braking index pulsars without a glitch, whose timing observations are obtained using the Nanshan 25-m Radio Telescope at Xinji

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