

What can the braking indices tell us about pulsars' spindown?

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As a result of observational difficulties, only braking indices of six rotation-powered pulsars are obtained with certainty, which are all remarkably smaller than the value of three expected for pure magnetodipole radiation. This is still a real fundamental question that is not well answered after nearly forty years of the discovery of pulsar. The main problem is that we are shamefully not sure about dominant mechanisms that result in pulsars' spindown. Based on our previous work, the braking index is recalculated, with the inclusion of the effect of inclination angles. New constraints on model parameters by observed braking indices are presented.