



Quantum Vacuum influence on the evolution of Pulsars

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In this letter we show that Quantum Vacuum Friction (QVF) should play an important role in neutron star evolution. Taking into account this effect we show that magnetars could be understood as a natural evolution of standard pulsars. For the Crab pulsar, of which the characteristic age is known, we present the first completely coherent time evolution for its period and braking index. For this pulsar we also give the predicted value of the current first derivative of the braking index, providing a very important test to confirm QVF.

<u>存档文本</u>

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