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The influence of magnetic field geometry in neutron stars crustal oscillations

In this work, we show the solutions of the fluid perturbations equations confined in a neutron star crust with a dipolar magnetic field permeating the whole star. The perturbations are restricted to the crust, and dipolar an toroidal components describe the magnetic field. With this model, we seek to explain the frequencies observed in some Soft Gamma Repeaters flares.

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