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What can magnetar QPOs tell us about the NS EoS

Sunday 7 May 2017 09:40 (20 minutes)

Magneto-elastic Oscillations of neutron stars are believed to be observed as quasi-periodic oscillations in the decaying tail of the giant flares of magnetars. Significant efforts in the theoretical modelling from different groups have increased our understanding of this phenomenon significantly. Here we will discuss some constraints on the matter in neutron stars that arise if the interpretation of the observations in terms of superfluid, magneto-elastic oscillations is correct.

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