

QPOs in the aftermath of X-ray flare of SGRs as manifestations of quake-induced torsional elastic and hydromagnetic vibrations of magnetars

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A brief outline of the developed theory of torsional elastic and hydromagnetic nodeless vibrations in a quaking magnetar is given with the emphasis on identification of these vibrational modes in the frequency spectra of quasi-periodic oscillations of X-ray luminosity during the flares of SGR 1806–20 and SGR 1900+14.