



**Quasi-periodic pulsation in solar and stellar flares**

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Abstract: Quasi-periodic pulsations (QPPs) are usually found in the integrated emission light curves of solar and stellar flares. This kind of signals are commonly found in the wide range of electromagnetic wave emissions of solar and stellar plasmas, such as radio wave, visible light, ultraviolet, X-ray and gamma-rays. In the sun, QPPs could be studied with a wide range of imaging and spectrographic instruments, therefore, we could understand the mechanisms of QPP excitations. With a current understanding of QPPs, we could apply knowledge to stellar flares. There, we could extract the extra-dimensions of stellar flares, such as periodicity, modulation depth and damping rates of QPP during a flare, and the obtained information could be used to infer the physical parameters of flaring region of a remote star.