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Transverse oscillations of solar filaments with SDO/AIA observations in 304 Å spectral line

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We study quasi-periodic oscillations of two solar filaments based on observations in 304 Å ultraviolet line provided by SDO/AIA.

Time-distance diagrams based on the intensity maps were produced. Quasi-periodic oscillations of the transverse dimensions of the filaments with periods of 4-8 and 10- 20 minutes have been revealed. On the basis of the obtained results, the amplitude-phase relations between the changes in the intensity and the transverse dimensions of the filaments are discussed.

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Student poster?

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