

## **Velocity fluctuations of prominence eruptions**

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### **Abstract**

Different kind of prominence eruptions are often observed all over the solar disk. Detailed analyses have been carried out for 304 A Solar Dynamics Observatory/Atmospheric Imaging Assembly observations to track the kinematic features of prominences (up to 1.3 solar radii) during various eruptions. To expand our research and to follow the rising of a filament on higher altitudes (up to 6 solar radii), we added Solar and Heliospheric Observatory/Large Angle and Spectrometric Coronagraph C2 data if the studied prominence was visible in LASCO field of view. Obtained height-time profiles of the eruptions show quasi-periodic velocity fluctuations. Reasons causing oscillations in the material movement are discussed.