



## **Multi-wavelength observation of a failed helical prominence eruption**

Haiqing Xu

National Astronomical Observatories, Chinese Academy of Sciences, Beijing, China (xhq@bao.ac.cn)

We use  $H\alpha$  image observed at Huairou Solar Observing Station of National Astronomical Observatories of China and multi-wavelength images observed by Atmospheric Imaging Assembly (AIA) onboard the Solar Dynamics Observatory (SDO) to analyze a prominence eruption on 14 October 2012. The main feature of the eruption is accompanied by a magnetic flux rope unwrapping process. The twist of the flux rope is estimated at least two turns ( $4\pi$ ) which reaches up to the threshold of the kink instability. From time-distance slice image (AIA 171Å, 193Å and 304Å), we find that there is an intensity oscillation in the two legs of prominence and the period is almost the same.