

<http://doi.org/10.69646/14sbac04a>

MULTI-INSTRUMENT OBSERVATION OF A FILAMENT ERUPTION AND ASSOCIATED CME DEFLECTION

KOSTADINKA KOLEVA¹, MOMCHIL DECHEV², PETER DUCHLEV¹

¹ *Space Research and Technology Institute, Bulgarian Academy of Sciences, Sofia, Bulgaria*

² *Institute of Astronomy and National Astronomical Observatory, Bulgarian Academy of Sciences, 72 Tsarigradsko Chaussee Blvd., 1784 Sofia, Bulgaria*

E-mail: koleva@astro.bas.bg

We present the results from the investigation of a filament eruption, occurring in the southern solar hemisphere on 18 October 2017. The event was observed in the field-of-view of Atmospheric Imaging Assembly (AIA) onboard the Solar Dynamics Observatory (SDO) and STEREO A observatory and was associated with a halo CME. The CME displayed a strong non-radial motion towards the pole. The eruption started behind the limb, from a circular filament, close to the AR.

We studied the eruption kinematic, using data from EUVI STEREO A. Additionally, the latitudinal offset of the CME with respect to the erupting filament in the LASCO field-of-view was examined. The possible reasons for CME deflection are discussed.