30th International Cosmic Ray Conference

Contribution ID : **1253** Type : **Poster**

Multi-Fiber Spectrograph to evaluate radial speed of Halo CMEs

Abstract content

Coronal Mass Ejections (CMEs) are the most important events responsible for disturbances to space weather. The dynamical parameters of CMEs are measured on images obtained by ground based and space Coronagraphs. Most of them, white light images from Thomson scattering showing the changes on structures as projected on the plane of the sky. LASCO C1, MICA and some other Coronagraphs implemented Fabry-Perot spectrographs to observe the low Corona but not significant data of Halo CMEs have been acquired in this way. In this work we present the design of a Spectrograph with a broad spectral coverage around the green line at 530.3 nm, in order to evaluate radial speeds of Halo CMEs. The multi-fiber-fed spectrograph will give individual spectra for each fiber to reconstruct the spectral features of the whole focal plane, improving temporal and spatial resolution of coronal images.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

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Session Classification : Posters 1 + Coffee

Track Classification : SH.1.7