



Contribution ID: 49

Type: **Invited**

Exploring Coronal Mass Ejections: An Overview

Tuesday 10 September 2024 15:30 (25 minutes)

Coronal mass ejections (CMEs) are huge eruptions of magnetized plasma from the Sun that travel into interplanetary space. These energetic and complex phenomena, when they interact with Earth's magnetic field, can cause significant disruptions. Due to their potential impact, there has been a strong focus on studying CMEs to predict them well in advance of their arrival at our planet. In my presentation, I will provide an update on the progress made in this area, highlighting recent findings on CME source regions, eruption mechanisms, and their movement through the solar atmosphere. I will also discuss the challenges and opportunities for studying CMEs, including potential improvements through recent and upcoming space missions.

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Session Classification: Multi-scale energy release, flares and coronal mass ejections

Track Classification: Multi-scale energy release, flares and coronal mass ejections