



## **Coronal Mass Ejections and Associated Phenomena: Recent Observations and Numerical Simulations**

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In the past six years, the two STEREO spacecraft have remotely observed hundreds of coronal mass ejections (CMEs), shedding light on their heliospheric evolution. Combined with global numerical simulations and multi-point *in situ* measurements, these observations can reveal intricate physical phenomena occurring during instances of CME-CME interaction and can help understand the acceleration and transport of energetic particles. We will discuss some recent efforts in understanding the Sun-to-Earth evolution of complex series of eruptions as well as their effectiveness in accelerating particles, focusing on the May 2010 and August 2011 events.