

2nd Metis Science Meeting



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Unifying the Physical Understanding of CMEs through Remote Sensing Observations in the PSP/Solo Era

Recent high-resolution observations from the Parker Solar Probe and Solar Orbiter reveal complex variations in CME structures, posing significant challenges to existing models. With the ability to directly compare simultaneous remote imaging and in-situ measurements, we can now probe CME internal structures in unprecedented detail. These advances raise questions about whether our current understanding truly captures the observed dynamics or if a fundamental rethinking of CME structure and evolution is needed. In practice, despite progress, substantial gaps remain between models, imaging, and in-situ interpretations that must be addressed to achieve a cohesive understanding of CME structures from the Sun through the heliosphere.

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