

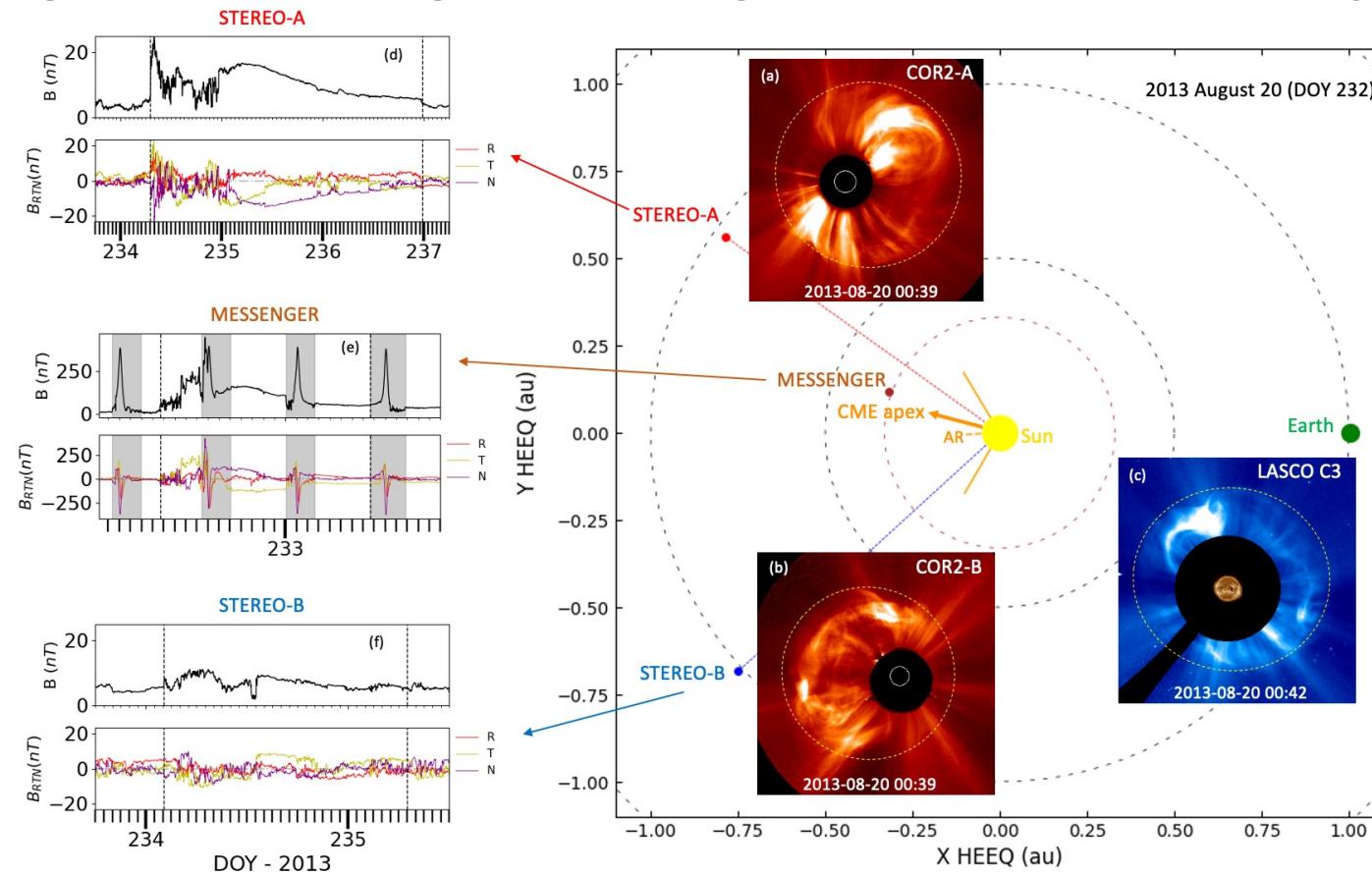
CME related to an ‘Unusual Solar Energetic Particle Event’

Rodríguez-García et al, 2021

<https://www.aanda.org/articles/aa/abs/2021/09/aa39960-20/aa39960-20.html>



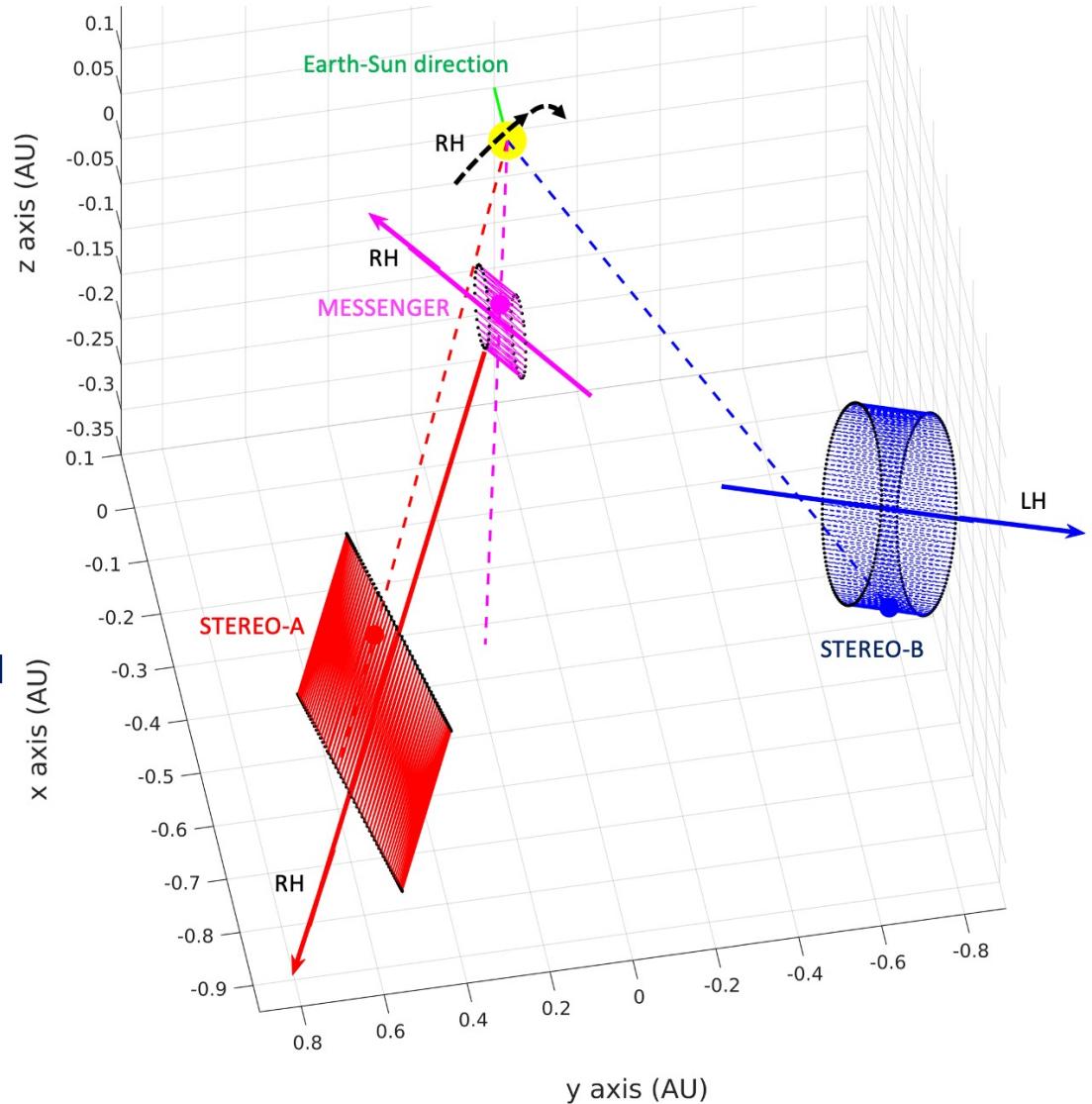
Motivation: Do the different magnetic field ropes (MFR) measured in situ, spanning 78 degrees in heliolongitude, belong to the same interplanetary CME (ICME)?



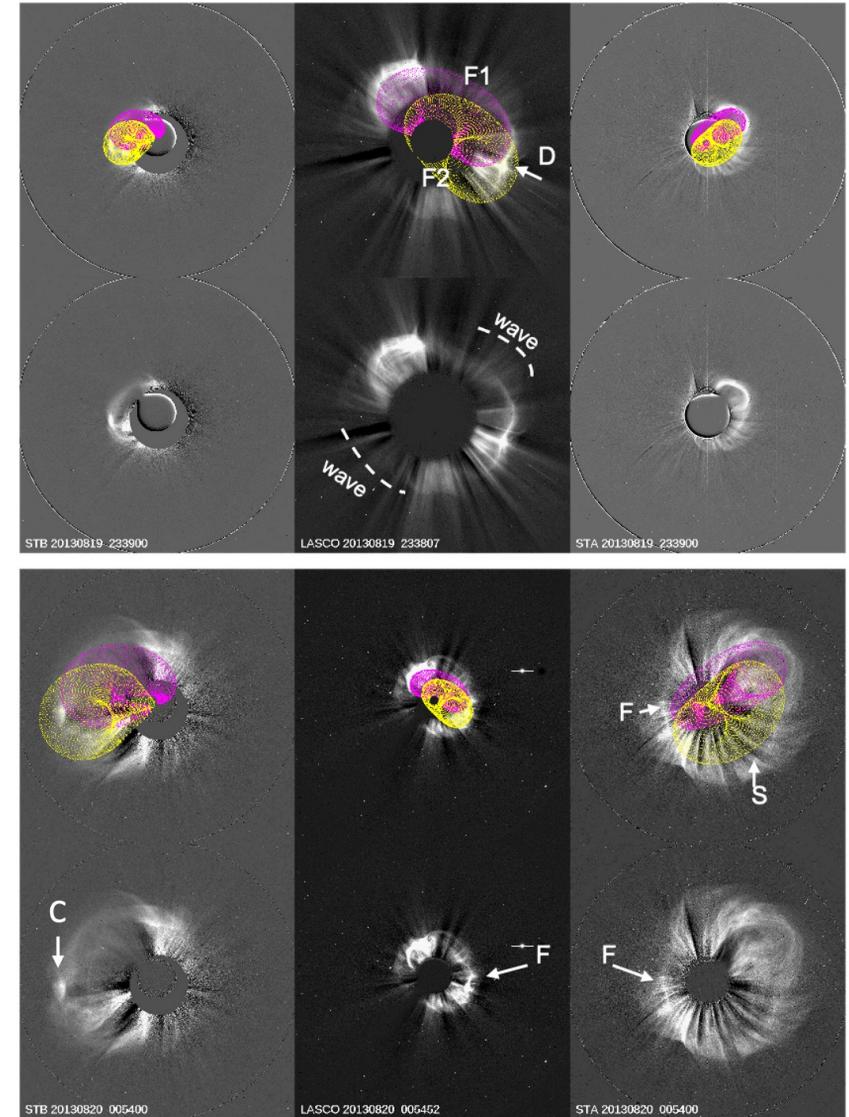
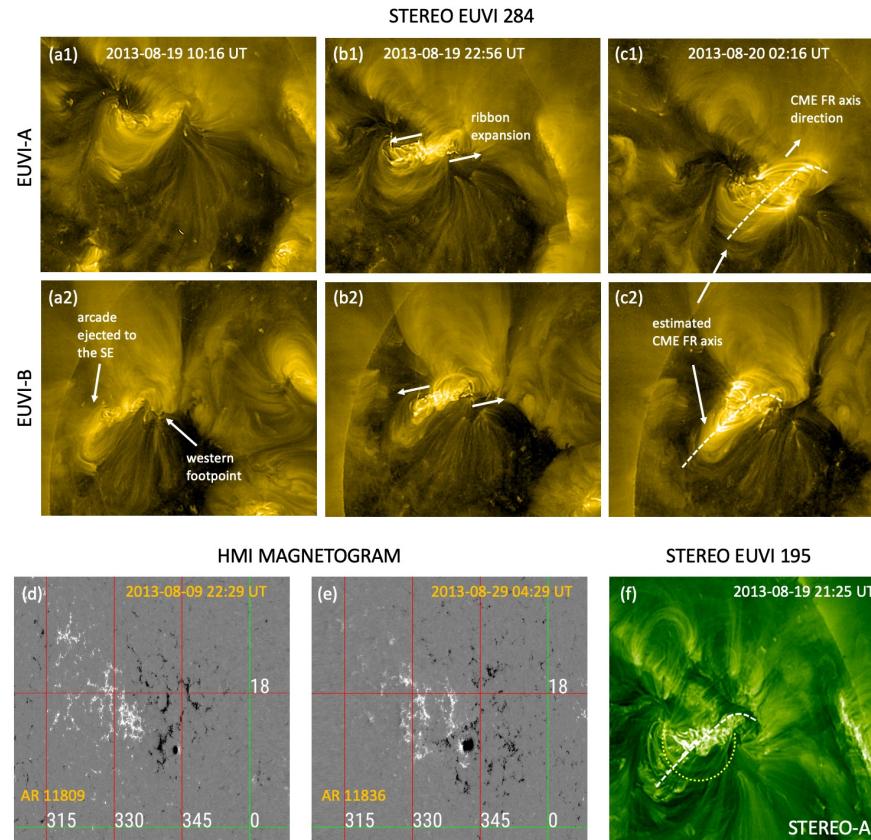
Possible scenario

★ **STEREO-B intercepts the west leg of the ICME while MESSENGER and STEREO-A are crossing through the core of the ICME.**

★ **The different MFR orientations observed in situ might be related to a curved, highly distorted and rather complex magnetic field topology.**



- ★ Dual chirality: kink instability study/flux emergence simulation
- ★ Reconstruction of the MFR taking distortion into account



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