

WG4 Objectives agreed upon before the Workshop

Provide textbook-style standard CME-ICME chain events from the Sun to the Earth based on the state-of-the-art observations and successful theoretical analysis and numerical simulation: happy stories

Examine controversial Earth-Affecting CME/ICME pairs during the STEREO era (from 2007): surprising stories

To analyze the complications that arise when linking CMEs to ICMEs

To obtain new insights that could be applied when forecasting ICME arrivals at the Earth

Integrate theory, simulations and observations in order to get a complete view of the chain of events from the Sun to the Earth

At the Workshop

At the start of this workshop, WG4 was not very distinct from WG1, but we now agree that it is different in the following way.

- WG4 will promote comprehensive studies of a small number of the campaign events, addressing all the questions that are of interest to ISEST. WG4 combines data analysis with theory and numerical models.
- Until the second ISEST Workshop (October 2014), we focus on two events, 12 July 2012 (text book event) and 4-5 October 2012 (problem event).

At this workshop, additional scientific topics were identified, reflecting the interests of the participants.

Action items for the next 16 months

Organize (prioritize?) scientific questions.

Collect data, theoretical (analytic) and numerical results through WG1, WG2 and WG3.

Public outreach. Make an attractive package to summarize the results with punch lines.

Concerns

Although WG1 has deadlines for data repository, is it also the case for WG2 and WG3? The answer seems to be Yes, with some delays needed for WG2 and WG3 to ingest the data provided by WG1.

It is likely that the first event will get more attention and more data/theory/simulation. How can we present the problem event effectively? This may not be a problem, because the first event will serve as a PR event, whereas the second one may have its own scientific values.

Can we expand scientific questions so that we may ask, for example, the origin of Bz? We can probably ask possible contributors to the expanded topic.