Solar Storm Early Forecasting --- "SolarCast-1"

Monday 9 November 2015 - Wednesday 11 November 2015

Niels Bohr International Academy

Scientific Programme

SolarCast-1 focuses on data-driven predictive modeling of solar storms, especially the initiation and launch of solar storm at the solar surface.

Our meeting will be focused around initiation of space weather events at the Sun. We will develop ideas for the formulation of a set of major challenges for early forecasting of solar storm initiation (at the Sun). They will be based on the recent white paper by Schriver *et al.* (2015). We further aim to develop a draft resolution road-map for those challenges during the meeting.

Several layers of physical approximations are in play, and coupling across a range of spatio-temporal scales in plasma physics are required. We have invited experts from several relevant research disciplines -- observational, computational, and theoretical -- to accommodate fruitful discussions.

The meeting programme will consist of invited key topic presentations, followed by guided roundtable discussions with intervening short contributions. A detailed programme will be published shortly after the abstract deadline.

We expect to continue to arrange similar meetings, i.e. 'SolarCast-N' with N \in {2,..,?}, addressing later other essential aspects of solar storms and solar activity, until we have a working framework in place for more precise forecasting.