

Solar wind plasma observation by Parker Solar Probe and Solar Orbiter

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Abstract: The Parker Solar Probe (launched in 2018) and Solar Orbiter (launched in 2020) missions are providing us with an unprecedented view of the inner Heliosphere. While the closest perihelion of Solar Orbiter will be at 0.28 AU, that of Parker Solar Probe will come as close as 0.046 AU, i.e., well inside the Alfvén critical layer, in the magnetically-dominated solar corona. The first observations reveal a highly structured solar wind that raises many new questions. In this presentation I shall provide a brief overview of the main results that have been obtained so far regarding solar wind plasmas.

Session: Space Plasma Physics and Nonlinear processes in Space Geophysics

Oral: Invited plenary talk