



## **Solar-wind predictions for the Parker Solar Probe orbit**

Volker Bothmer and Malte Venzmer

University Göttingen, Institute for Astrophysics, Göttingen, Germany (bothmer@astro.physik.uni-goettingen.de)

The Parker Solar Probe (PSP) (formerly Solar Probe Plus) mission will be humanity's first in situ exploration of the solar corona with closest perihelia at 9.86 solar radii distance to the Sun. It will help answer hitherto unresolved questions on the heating of the solar corona and the source and acceleration of the solar wind and solar energetic particles. The scope of the study presented here is to model the solar-wind environment for PSP's unprecedented distances in its prime mission phase during the years 2018–2025. The study is performed within the Coronagraphic German And US SolarProbePlus Survey (CGAUSS) which is the German contribution to the PSP mission as part of the Wide-field Imager for Solar PRobe (WISPR). Here we present an empirical solar-wind model for the inner heliosphere which has been derived from OMNI and Helios data.