

Solar wind discontinuities

Zijin Zhang
University of California, Los Angeles
zijin@ucla.edu

Anton V. Artemyev
University of California, Los Angeles
aartemyev@igpp.ucla.edu

2024-01-09

Scientific/Technical/Management

Overview

Parker Solar Probe (PSP) is a NASA mission to study the Sun's corona and inner heliosphere.

PSP timeline:

- 2018-08-12: Launch
- 2018-10-03: First Venus flyby
- 2018-11-05: First perihelion
- 2019-01-19: First aphehion
- ...

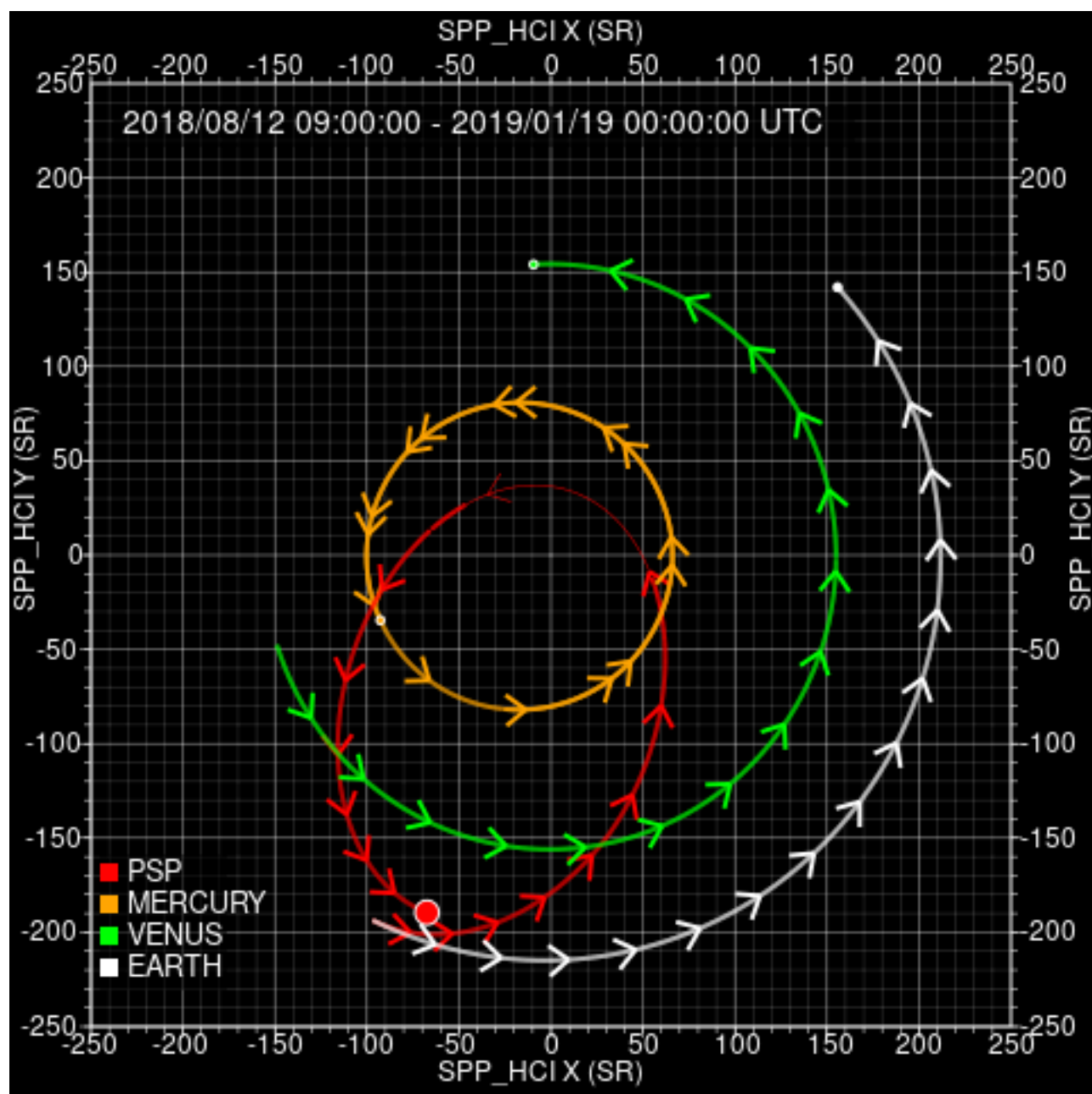


Figure 1: Parker Solar Probe orbits

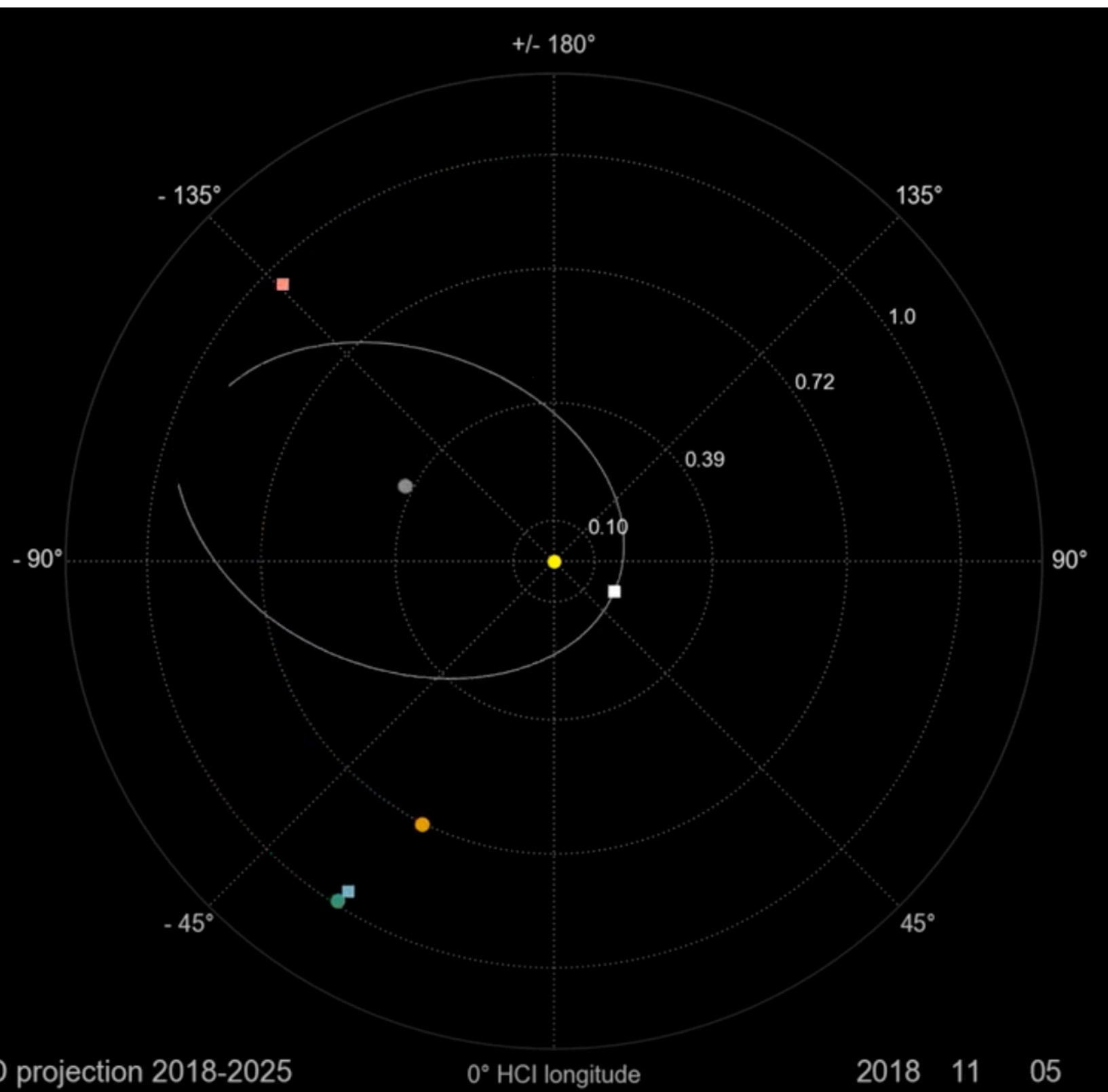


Figure 2: Multiple satellites orbits

Discontinuities observed by different spacecrafts

Juno, Parker Solar Probe, Wind and Stereo.

Occurrence rate of discontinuities

Model validation

Solar wind properties

References

- Parker Solar Probe: The Mission

Open Science and Data Management Plan (OSDMP)

Biographical Sketches/Curriculum Vitae (CVs)

Zijin's CV

Anton's CV

Table of Personnel and Work Effort

Current and Pending Support

Statements of Commitment and Letters of Support, Feasibility and Endorsement

Budget

Budget Narrative (Budget Justification)

Budget Details

Bibliography