

SEPServer - A new Tool for SEP Research

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Observed data:

Event Catalogues

6 catalogues based on HELIOS, SOHO, ULYSSES, SOHO and STEREO particle instrument data.

The catalogues present preliminary results of event analysis.

EM Observations

EM spectrograms from 4 different sources, 1D EM map data, X-ray lightcurves and particle data can be freely combined.

SEP Observations

Particle observations of multiple experiments can be combined with each other as well as additional data.

Simulated data and tools:

Plasma Simulations

Particle in Cell simulations of shock- and reconnection acceleration scenarios.

Monte-Carlo simulations of wave-particle interaction

EM Emission - Simulations

Microphysical kinetic simulation of radio burst emissions from CME foreshock plasma-beam interactions.

Particle transport and analysis tools

Tools for both forward modelling and inversion of SEP propagation are provided on the Server.

<http://server.sepserver.eu>

