

**SEP-spectrum-Soho (unical\_sep\_soho\_spectrum.json):**

Proton energy spectra for geoeffective and widespread target events observed from Soho spacecraft (at L1). The data used to calculate the energy spectra were taken from the LED and HED sensors in the energy range (1.3 – 130 MeV), with a resolution of 1minute (URL: <https://srl.utu.fi/>). Columns:

- 1) the geometric mean energy (MeV);
- 2) the time averaged differential fluxes of energetic particles ( $\text{cm}^{-2} \text{s}^{-1} \text{sr}^{-1} \text{MeV}^{-1}$ ), calculated over the duration of the SEP event;
- 3) the name of the spacecraft.