



Contribution ID: 516

Type: **Poster**

Catalogue of hot jets in the solar corona

Wednesday, 8 September 2021 16:30 (13 minutes)

We present a catalogue of plasma jets in the solar corona with a temperature above 0.5 MK. The catalogue contains primary information about the event and of the parameters of the jet, based on the data obtained with the spaceborne high-precision EUV imaging telescope SDO/AIA and ground-based radio telescopes and spectrometers, including RATAN-600 (Radio telescope of the Russian Academy of Sciences, Russia), SRH (Siberian Radio Heliograph, Russia) and NoRH (Nobeyama Radio Heliograph, Japan). To obtain the primary parameters of the jets, we developed a new method of automatic jet detection in homogeneous time series of images. For some events, the catalogue is complemented with data on the reconstructed magnetic field. The purpose of the catalogue is to provide summary information about coronal jets to all interested researchers for further statistical analysis, determination of characteristic parameters of jets, and in-depth study of individual events. Currently, the catalogue covers the time interval from 2010 to 2019, and the data is continuously added. The work was supported by the Russian Foundation for Basic Research grant No. 18-29-21016.

Student poster?

Do you want to be considered for a student poster prize?

Primary authors: Dr KALTMAN, Tatyana (Special Astrophysical Observatory, Russia, St.-Petersburg); Dr STUPISHIN, Alexey (5Saint Petersburg State University, Saint Petersburg, Russia); ANFINOGENTOV, Sergey (Institute of Solar-Terrestrial Physics SB RAS); Prof. NAKARIAKOV, Valery (University of Warwick); LOUKITCHEVA, Maria ((1) MPS, Germany (2) SAO, Russia (3) SPbSU, Russia); Mr SHENDRIK, Andrey (Special astrophysical observatory of RAS, St. Petersburg, Russia)

Presenter: ANFINOGENTOV, Sergey (Institute of Solar-Terrestrial Physics SB RAS)

Session Classification: Poster Session 8.4

Track Classification: Session 3 - Fundamental Plasma Processes in the Solar Atmosphere: Magnetic Reconnection, Waves, Emission, Particle Acceleration