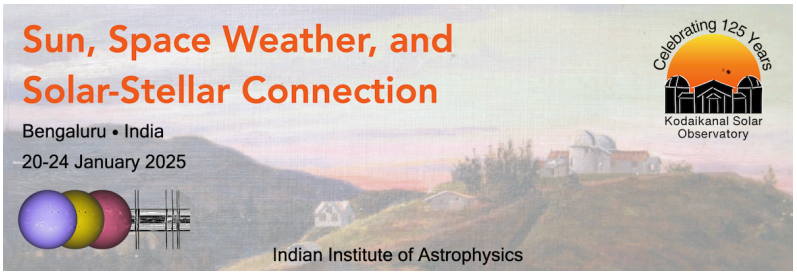

Contribution ID: **3** Type: **Poster**

Investigating the Origin of Switchbacks in the Solar Corona - A Statistical Approach

Switchbacks are observed as sudden and large deflections in the magnetic field by the Parker Solar Probe (PSP) ubiquitously in the inner heliosphere. One of the prominent hypotheses for the origin of switchbacks relates to dynamic activities in the solar atmosphere. In this work, we study small scale jets and transient events in the solar corona through Solar Dynamics Observatory (SDO) and perform a statistical comparative analysis with switchback events observed by the PSP. We present preliminary results on statistical association between these events, and perform a quantitative analysis to address the solar connectivity of in-situ structures.

Contribution Type

Theme

Connecting Solar Corona to Heliosphere

Primary author: PANDIT, Sneha (IUCAA, Pune)

Co-authors: FROMENT, Clara (CNRS, Orleans); TRIPATHI, Durgesh (IUCAA, Pune); UPENDRAN, Vishal (LMSAL)

Presenter: PANDIT, Sneha (IUCAA, Pune)

Session Classification: Poster Session-II / Coffee Break