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Type: Poster

Long-Term Correlation Studies of the Ca-K and H-alpha Spectroheliograms from the Kodaikanal Archival Data

We studied the sun's chromosphere through Ca-K and H-alpha full-disk spectroheliograms from Kodaikanal archival data. Our study looks at the long-term correlation analysis of features such as plages, filaments, and active regions across these two chromospheric lines. By developing robust methodologies for feature extraction, we have tried to understand the long-term behavior of the chromosphere and its relationship to solar activity. We report some preliminary results in this presentation. This work is significant for solar physics, as it will deepen our understanding of the solar magnetic evolution and its influence on the sun's outer layers.

Contribution Type

Poster

Theme

Solar Magnetism over Long-Time Scales

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