



Contribution ID: 536

Type: Poster

Temperature of coronal streamers through the solar activity cycle

Wednesday, 8 September 2021 14:39 (13 minutes)

Coronal streamers are long lived structures of the solar corona, and are very important source of slow solar wind. We have analyzed few dozen of coronal streamers observed by AIA/SDO, from solar activity maximum to minimum. For each streamers we applied a Differential Emission Measure method to obtain both a temperature distribution and a value of average temperature as well as it's change with height above photosphere. We find that streamers are filled with plasma with temperatures in the range of 1.2-2.0 MK. We found that average temperatures of streamers changes as a function of solar activity phase.

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Session Classification: Poster Session 7.2

Track Classification: Session 2 - The Solar Atmosphere: Heating, Dynamics and Coupling