

3d trajectories of plasma blobs in solar eruptive and active prominences

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Abstract

We present a unique method of reconstruction of the true 3D trajectories of the prominence blobs observed with the Multi-channel Subtractive Double Pass imaging spectrographs. Using data collected with Wrocław MSDP spectrograph installed on Large Coronagraph, the trajectories of the blobs of numerous active and eruptive prominences were reconstructed, showing their 3D structure and temporal evolution of their magnetic skeletons. As examples of the obtained results we present reconstructed trajectories of several blobs in three prominences. The unique results obtained by us are very useful in analysis of the eruptions of the prominences and their connections with CMEs.