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FastQSL: A Fast Computation Method for Quasi-separatrix Layers

Magnetic reconnection preferentially takes place at the intersection of two separatrices or two quasi-separatrix layers, which can be quantified by the squashing factor Q , whose calculation is computationally expensive due to the need to trace as many field lines as possible. FastQSL is developed for obtaining Q and the twist number, with the performance of millions of Q values per second. FastQSL supports both uniformed and stretched grids, the support of spherical coordinates is extended recently.

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