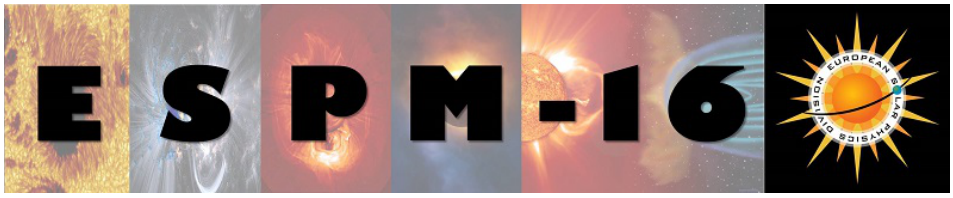

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The Real Winding Number of Coronal Flux Ropes

Tuesday, 7 September 2021 09:00 (13 minutes)

Twist is routinely used to quantify the location of flux ropes and to understand their evolution. At the Sun, we rely on the quantity Tw that describes how much two infinitesimally close field lines wind about each other due to its simple derivation from parallel current. In this work we present a simple method for the identification of a flux rope axis and the calculation of the winding number for its field lines. The behaviour of this metric is explored in comparison to Tw.

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