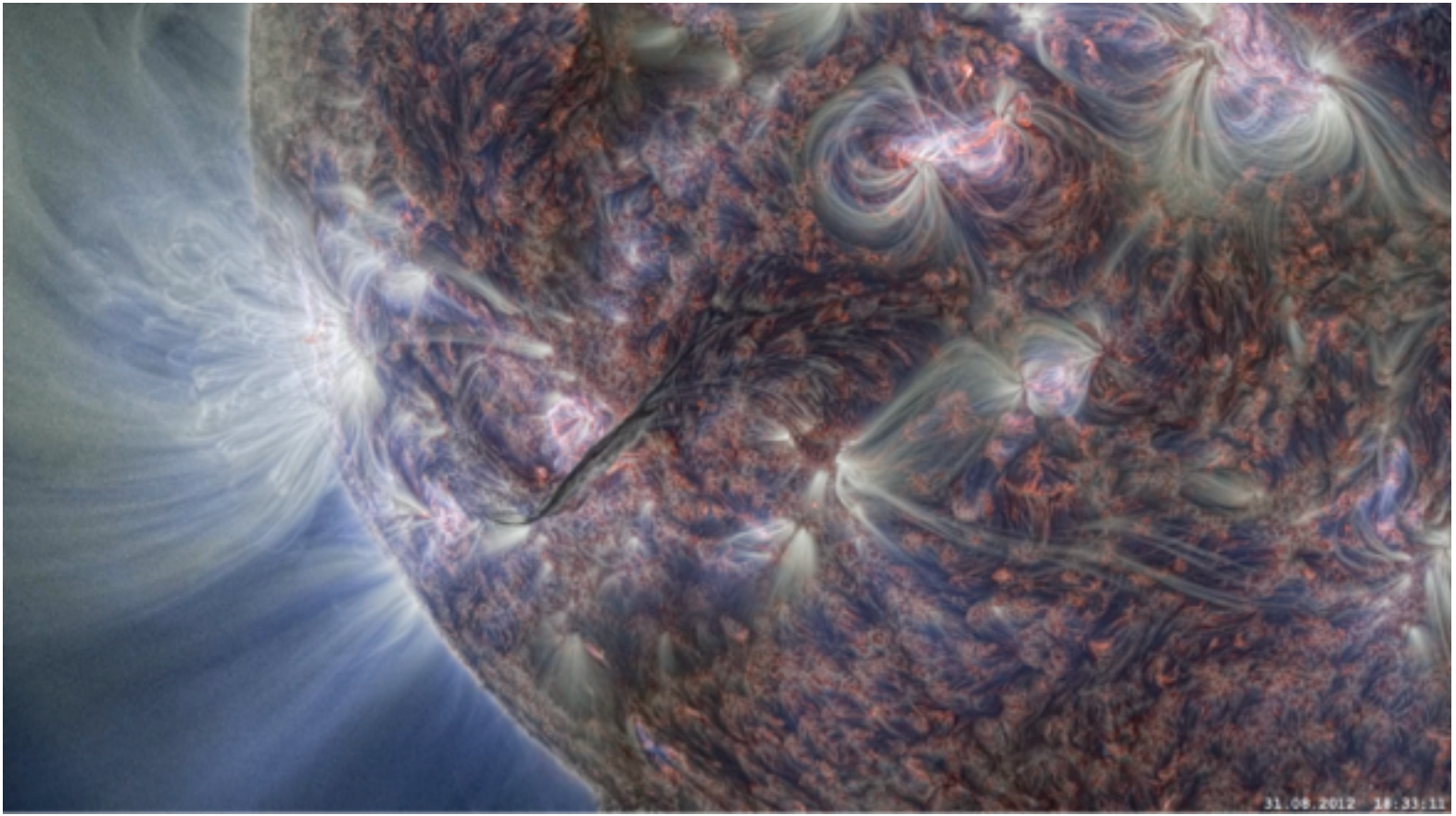
31.08.2012 18:33:11

Introduction: Magnetic Field in the Solar Corona

- There are a lot of specific topological domains of the B field in the solar corona,
  - e.g. The critical point and other separatrix of the B field can define these topologies.
- The boundary of each topological domain is a favor place for non-ideal process,
  - e.g. reconnection.


CML: 290.7 - Solar North up


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Introduction: Topology of the Magnetic Field

- In the coronal, the resistivity is very small.
- From the ideal induction equation: $\partial_t \mathbf{B} = \nabla\times(\mathbf{v}\times\mathbf{B}) + \eta\nabla^2\mathbf{B}$ —> flux frozen & field line frozen.
- The topology of the B field will be preserved under the ideal evolution.