

Energy Transport in the Transition Region and Lower Solar Corona

Hansteen, Viggo, viggo@astro.uio.no, Institute of Theoretical Astrophysics, University of Oslo, Norway.

Hinode and IRIS observations, especially when combined with high resolution ground based data, are giving unprecedented clues as to the transport of energy from the photosphere through the chromosphere and transition region into the lower solar corona. Real progress on finding the sources of outer atmosphere heating can be made when these observations are combined with state of the art numerical simulations. In this talk we will discuss several exciting developments relevant to the understanding of energy transport in these regions of the atmosphere, including UFS-loops, RBEs/spicules type II, pervasive twist in small scale structures, evidence for Alfvénic waves, and flux emergence.