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High-resolution observations of chromospheric dynamics

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The chromosphere is a very dynamic part of the solar atmosphere. With short time scales and small spatial scales at which fundamental physical processes are taking place, it is a challenge to get a clear observational view of the chromosphere. The CRISP and CHROMIS tunable filter instruments at the Swedish 1-m Solar Telescope (SST) on La Palma are capable of fast wavelength sampling while operating near the diffraction limit of the telescope. In this talk, I will present some of the best observations of the chromosphere that we have acquired with the SST. Over the past decade, we have been running a program of multiple annual campaigns in coordination with IRIS. This long term effort has resulted in a database that covers an extensive range of different types of targets and allows us to concentrate on data that were acquired under the best conditions. These datasets help us to find constraints on what are the main mechanisms that drive the dynamics of the chromosphere.

Primary author: ROUPPE VAN DER VOORT, Luc (Rosseland Centre for Solar Physics)

Presenter: ROUPPE VAN DER VOORT, Luc (Rosseland Centre for Solar Physics)

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