

OSCILLATIONS AND SHOCKS IN THE QUIET CHROMOSPHERE

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The solar chromosphere displays an impressive amount of fine structure, with typical temporal and spatial scales that are a challenge to both observing and modeling. We present here spectroscopic observations of chromospheric and photospheric lines, obtained at high spatial and temporal resolution over an extended FOV with the bidimensional spectrometer IBIS. Such observations clearly reveal that the dynamics and oscillations in the quiet chromosphere (both network and internetwork regions) are directly linked to the photospheric dynamics, in particular to the p-modes. At chromospheric level we observe the development of (magneto-)acoustic shocks, that display different properties depending on the structure in which the waves propagate. We discuss the presence of these shocks with respect to the local magnetic topology and their relevance in the structuring of the quiet chromosphere.