

3. Magnetic coupling and mass flux through the atmosphere

Quiescent prominence observed by IRIS

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Here we present one of the first quiescent prominence observations made by IRIS spectrograph on October 22, 2013 with very large dense 16-step raster. We analyzed spectra of CII 1334 & 1336 and SiIV 1394 lines in FUV channel together with MgII k & h lines in NUV channel. We found out various statistical relations between the observed quantities and compared MgII observations with a grid of 1D non-LTE models of magnesium lines. Our results point to the necessity of considering 2D multithread models with PCTR, similar to those used for analysis of hydrogen Lyman lines observed by SOHO/SUMER.