

# MAGNETIC COUPLING FROM PHOTOSPHERE TO CORONA

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SOHO, TRACE and Hinode have all clearly demonstrated that the solar atmosphere and its magnetic structures are highly inhomogeneous at almost all spatial and temporal scales. It is now of paramount interest how the solar surface (photosphere) is coupled to the chromosphere, transition region and corona. On what scale can direct energy leakage occur from below the solar surface to the magnetised corona? What is the role of magnetic loops in the leakage? How can the novel and rapidly emerging technique called magneto-seismology help us to answer the above questions? We will discuss the role of waves and oscillations from the surface of the Sun to corona with particular interest in using observations and forward modelling for the diagnostics of fine magnetic structures.