

GLOBAL CORONAL SEISMOLOGY

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Observations in EUV lines of the solar corona (SOHO/EIT, TRACE/EUV and STEREO/EUVI) revealed large scale propagating waves generated by eruptive events. *EIT waves* are large scale waves, covering an extended area of the solar corona (comparable to the solar radius. Waves (similar to EIT waves) are able to carry information about their environment. This attribute is used to develop one of the most dynamic branches of solar physics called *coronal seismology*. EIT waves can be used to sample the coronal local and global magnetic field. This contribution presents theoretical models for finding values of magnetic field in the quiet Sun and coronal loops based on the interaction of global waves and coronal loops as well as results on the generation and propagation of EIT waves. The physical connection between local and global solar coronal events (e.g. flares, EIT waves and coronal loop oscillations) will be also explored.