SP2RC Seminar abstract – 10/11/17

Solar magneto-seismology with asymmetric waveguides

The Sun’s atmosphere, where magnetic forces dominate, is permeated by MHD waves that can be used as an indirect method for diagnosing difficult-to-measure parameters of the solar plasma. This technique is known as solar magneto-seismology (SMS). In this talk, I will give a brief history of SMS development followed by a derivation of two novel techniques for SMS that use the asymmetry of the eigenmodes of asymmetric waveguides to estimate the strength of the background magnetic field, which is traditionally difficult to measure.