



OLA inversion of helioseismic traveltimes

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Helioseismic traveltimes contain the signature of solar subsurface inhomogeneities and plasma flows. Here we present a consistent methodology for the measurement, interpretation and inversion of f-mode traveltimes. The inversion method that we use is an Optimally Localized Averaging (OLA) procedure. Using SOHO-MDI observations, we infer flows in the near surface layers with a horizontal spatial resolution comparable to the average wavelength of the solar waves that contribute to the travel-time measurements.