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Introduction to Local Helioseismology

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Local helioseismology is a powerful tool for studying the solar interior. The data typically used in local helioseismology are time series of maps of Doppler velocity at the solar surface. Wave travel times are measured from these maps using a number of cross-correlation based techniques. Some of the current problems in local helioseismology are the structure and dynamics of sunspots and active regions and the subsurface nature of solar convection.