



Udaipur Solar Observatory/ Physical Research Laboratory

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SEMINAR

Imaging Polarimeter for Multi Application Solar Telescope

(Alok Ranjan Tiwary, USO/PRL)

The Multi-application Solar Telescope (MAST) is a 50 cm off-axis Gregorian telescope installed at the lake site of Udaipur Solar Observatory. One of the scientific objectives of MAST is to study the evolution of vector magnetic field on the solar atmosphere and its connection to various solar activities. In order to measure the vector magnetic field in the solar atmosphere, we have developed a Polarimeter for the MAST, which will be used for precise measurements of the Stokes vector at two different wavelengths i.e. at 617.3 nm and 854.2 nm, corresponding to photospheric and chromospheric heights, respectively.

The Polarimeter will modulate the polarization signal using two liquid crystal variable retarders (LCVR) along with a linear polarizer (one set each for the above wavelengths).

Date: Jul 21, 2015

Time: 15:00 hrs

Venue: USO Seminar Hall