



Udaipur Solar Observatory/ Physical Research Laboratory

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SEMINAR

Adaptive Optics and its applications in vision research

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A possible solution towards overcoming earth's atmospheric turbulence aimed at providing high resolution astronomical images using ground based telescopes came through the advent of adaptive optics (AO). An AO system consists of a wave front sensor to measure the optical distortions in the wave front and an optical element to compensate the optical distortions. In 1953, Babcock proposed a method for compensating earth's atmospheric turbulence but it was not until 1977 when Hardy and colleagues successfully demonstrated the use of AO in astronomy. Initially used for military purpose, AO made inroads in astronomy and is now being used almost as a staple part of any high resolution optical imaging system in astronomical telescopes.

Date: Dec 02, 2014

Time: 16:00 hrs

Venue: USO Seminar Hall