



# Udaipur Solar Observatory Physical Research Laboratory Colloquium

**Speaker:** Prof. Dipankar Banerjee

Indian Institute of Astrophysics Bengaluru

**Title:** "Long Term Study of the Sun Using Kodaikanal Digitized Data"

**Time:** Thursday, 19 September, 2019; 10:15 hrs.

**Venue:** USO Seminar Hall

## Abstract

At the Kodaikanal (KKL) observatory we have four sets of data which consist of White light photoheliograms since 1904, the Ca-K line spectroheliograms since 1906, H-alpha spectroheliograms from 1912 to 1998, and Ca-K spectroheliograms of prominences from 1912 to 1998. All these data are collected with the same instruments with no change in their optics in the last 100 years. Thus, these uniform and contiguous images are extremely valuable to study the long term variations of the Sun over a century. We have recently digitized all these datasets and made them open to the global community through the portal <https://kso.iap.res.in>. In this talk I will present a summary of recent science results from this digitized archive.

## The Speaker

Prof. Dipankar Banerjee completed his PhD titled "Magnetohydrodynamic phenomena in the solar atmosphere" from the Indian Institute of Astrophysics, Bangalore under the supervision of Prof. S. S. Hasan. In 1997, he moved to the Armagh Observatory where he received a Postdoctoral Fellowship from the Particle Physics and Astronomy Research Council (PPARC) of the United Kingdom. Following this, he worked as a Postdoctoral Fellow at the Centre for Plasma Astrophysics, Katholic University of Leuven, Belgium from 2000 to 2004 and has also served there as a Senior Fellow of the Research Council and a Capita Selecta Lecturer. He joined the Indian Institute of Astrophysics as a faculty in 2004 and has since supervised several PhD, post graduate, and undergraduate students. In addition to this, he is closely involved in the upcoming Aditya L1 mission of ISRO, serving as the Co-PI and Co-I of the VELC and SUIT instruments, respectively. He is the Project Co-ordinator for the National Large Solar Telescope project and the PI of the Digitization program at the Kodaikanal Observatory. He is the recipient of several National and International Grants from agencies such as the DST, SERB, BELSPO, UKIERI, and DAAD to name a few. His Professional associations include the IAU, the Royal Astronomical Society, COSPAR, and he has also served as the Secretary of the ASI and the Solar-Terrestrial Division of AOGS, as well as Associate Editor of Solar Physics until 2015. Prof. Banerjee has organized several international meetings, Symposia, Schools, and Seminars and is entrusted with Institutional responsibilities as well.

He was part of the IISc football team for 5 years, is trained in Hindustani vocal, and is the President of a Bangalore-based Bengali theatre group, which regularly performs shows in and outside Bangalore.

**ALL ARE WELCOME**

