



Physical Research Laboratory, Ahmedabad

COLLOQUIUM - 13 - 01

Speaker: Dr. Debi Prasad Choudhary

Department of Physics & Astronomy, California State University, Northridge, USA.

Title: Structure of Sunspot

Abstract

Are the sunspots monolithic magnetic plasma tubes or collection of smaller tubes that would have gaps of field free material? This has been a question for more than 30 years. With the high spatial resolution images of the sunspots from ground and from space observatories, we can now attempt to answer this question. As sunspots are the sites of large explosive events that influence the near earth space weather it is important to understand their magnetic structure that govern their stability and decay process. In this lecture, the anatomy of sunspots derived using the observations with Hinode Solar Optical Telescope, a 50 cm optical telescope in space platform for solar observations, will be discussed.

The Speaker

Dr. Debi Prasad Choudhary did his B.Sc. in Physics (Honors) from the Berhampur University (1979), M.Sc. (1981) & M.Phil. (1982) in Physics from the Kurukshetra University. He obtained his Ph. D. degree from the Gujarat University (1990). He then worked as “Max-Planck Fellow” at Max-Planck Institute fur Aeronomie, Lindau, Germany, during which he used large telescopes at Calar Alto, Spain to study the circum Jovian plasma torus. He worked at Physical Research Laboratory as faculty member during 1992-2003. His main research interest is in Solar Physics, specifically, developing the instruments for Solar Observations. These instruments involve high resolution spectroscopy and polarimetry. He was awarded the Research Associateship of National Research Council for two times in 1998 and 2003. In 2001, National Astronomical Observatory of Japan awarded him the “Center of Excellence Fellowship”. He has about 78 publications. He is a member of several professional associations such as American Astronomical Society, American Geophysical Union, and American Association for Advancement of Sciences, Astronomical Society of India and International Astronomical Union.

Wednesday: 02 January, 2013, 16:00 hrs.

K.R. Ramanathan Auditorium, PRL

Tea at 15:30 hrs

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A YEAR OF NEW SCIENCE, NEW DISCOVERIES and DEEPER SOCIETAL COMMITMENT