Physical Research Laboratory
Ahmedabad

Space & Atmospheric Sciences Division

Special Division Seminar

Title: **"On the multiple scale variability of the Disturbance Storm Time (Dst) Index"**

Speaker**: Prof. R. Rajaram**
Indian Institute of Geomagnetism, Navi Mumbai

Date: **23 January 2018**

Venue: **Ground Floor Lecture Hall**

Time: **14:30 hrs**

Highlight of the talk:

The origin of the Dst index can be traced to the work initiated by Nanabhai Moos at the Colaba Observatory in the last decades of the nineteenth century. The studies carried out showed that geomagnetic storms started simultaneously at longitudes widely separated but considerable local effects, not attributable to standard diurnal patters, also overlapped. Several methodologies have been developed in the years that followed to understand the global and longitudinal components of the geomagnetic disturbances using methods that were strongly influenced by original philosophy. With the improvement of the geomagnetic Observatory network it became possible to define a uniformly acceptable index for geomagnetic disturbance suitably named as the Disturbance Storm Time index or Dst. Dst has been used almost universally as a global measure of geomagnetic disturbance. It is also used as principal parameter around which the magnetosphere models are built. Over 57 years of continuous and robust data of Dst index is now available and the talk will try to provide a comprehensive view of multiple scale variability of the geomagnetic disturbance recorded over the period.

All interested are welcome.