

Physical Research Laboratory Ahmedabad

Area Seminar

(Space & Atmospheric Sciences Division)

Title: “From Fading to Features: Ionosphere over Thumba 1965-67”

Speaker: Harish Chandra

Date: 05 October 2015

Venue: Ground Floor Lecture Hall

Time: 1600 hrs

Highlight of the talk:

With the establishment of a rocket launching station at Thumba, close to the magnetic equator, an ionospheric station was set up by PRL in 1963. Spaced receiver drift measurements in the E-region were started in November 1963 followed by radio soundings from an automatic ionosonde C-4 from October 1964. Riometers at 21.3 and 16.5 MHz and later on in 1966 radio beacon measurements at 20, 40 MHz using orbiting explorer satellites were the other instruments that operated from Thumba. Multi-technique investigations in the virtually unexplored magnetic equatorial region resulted in several new features of the equatorial ionosphere. Brief summary of some of the results is presented with focus on the use of fading of radio waves as a powerful diagnostic tool.

All interested are welcome.