

Area Seminar

Title	Wavelet analysis of Nonlinear oscillations.
Date and Time	04/03/2010 16:00:00
Speaker	A. N. Sekar Iyengar Professor SINP, Kolkata
Area	Theoretical Physics
Venue	Room No. 469
Abstract	<p>Fourier analysis is very popular technique to which everyone resorts to in the analysis of fluctuations/oscillations: fluids, plasmas, finance, EEG, ECG, earthquakes etc. But the disadvantage of this technique does not yield time information which is overcome by wavelet analysis.</p> <p>Wavelet transforms have become quite popular in different fields of research from which one can derive both time-scale (or inversely frequency) information. We shall show how we have been able to derive information regarding presence of nonlinearity as well as the chaoticity of the system through some data obtained from our plasma experiments and from foreign exchange rates.</p>