

Area Seminar

Title	Some results using simple coupled maps
Date and Time	21/01/2010 16:00:00
Speaker	Some results using simple coupled maps Professor University of Mumbai
Area	Theoretical Physics
Venue	Room No. 469
Abstract	In this seminar we discuss three results dealing with some simple nonlinear coupled maps. First, we show that that the stationary density of the coupled tent map has a fractal character. Then we introduce a new method suited for the global analysis of synchronization in a coupled nonlinear system. We demonstrate it using coupled tent maps. Finally, we study coupled logistic maps whose coupling strengths change according to a learning rule. We study the effect of this learning on the network topology. This result has relevance to Neuroscience.