

Area Seminar

Title	Nuclear Spin Dependent Parity Non-conservation from Hyperfine Interaction
Date and Time	04/06/2012 16:00:00
Speaker	Siddhartha Chattopadhyay
Area	Physical Research Laboratory, Ahmedabad
Venue	Theoretical Physics
	Room No. 469
Abstract	<p>One source of nuclear spin-dependent (NSD) parity non-conservation (PNC) in atoms is the interference of the hyperfine interaction and the nuclear spin independent (NSI) PNC. We have examined this form of interaction in the frame work of perturbed coupled-cluster theory. In this talk I will briefly discuss in general the sources of NSD-PNC and discuss in some detail the hyperfine interaction perturbed NSI-PNC in atoms. I shall also present preliminary theoretical development to calculate the effect in alkali atoms.</p>