

## Area Seminar

Title	Non-chiral bosonization of fermions
Date and Time	27/03/2014 16:00:00
Speaker	Dr. Girish S. Setlur
	Department of Physics, IIT Guwahati
Area	Theoretical Physics
Venue	Room No. 469
Abstract	<p>In this talk, I describe the ongoing work in our group in recasting interacting fermion theories in a bosonic language with the aim of extracting asymptotically exact single particle Green functions. I describe the recent remarkable closed form expression of the Green function of a Luttinger liquid in presence of a single impurity (Kane Fisher problem). This talk will also introduce the concept of a non-local particle hole creation operator for both boson and fermion systems and point of their applications in computing the correlation functions.</p>