

Area Seminar

Title	Infrared properties of cuprates in the pseudogap state: A study of Mitrovic-Fiorucci and Sharapov- Carbotte scattering rates
Date and Time	17/06/2014 11:00:00
Speaker	Pankaj Bhalla
Area	Theoretical Physics
Venue	Room No. 469
Abstract	<p>The frequency dependent scattering rate of generalized Drude model contains important physics on the electronic structure and on scattering mechanism. In this talk, we will discuss the frequency dependent scattering rate of cuprates (Mitrovic-Fiorucci/ Sharapov-Carbotte scattering rate) in the pseudogap phase using the non-constant energy dependent Yang-Rice-Zhang (YRZ) density of states. We will see the problems observed with traditional approach in the behavior of scattering rate and how our approach has sorted these issues. We will also discuss the experimental results of behavior of scattering rate and qualitative agreement of our results with them.</p>