NITheP cordially invites you to lecture series by:

**Professor Subhash Chaturvedi**  
*University of Hyderabad, India*

Phase space description of quantum systems I: continuous variable systems  
Friday, 5\(^{th}\) June 2015 @ 11h30

Phase space description of quantum systems II: An application to quantum heat engines  
Tuesday, 9\(^{th}\) June 2015 @ 14h00

Phase space description of finite state quantum systems III: the case of finite fields  
Friday, 12\(^{th}\) June 2015 @ 11h30

Phase space description of finite state quantum systems IV: the ring case  
Friday, 19\(^{th}\) June 2015 @ 11h30

**Abstract:**

The set of four lectures are aimed at giving an overview of phase space descriptions for both continuous variable as well as finite state quantum systems with particular emphasis on the Wigner description. Usefulness of such descriptions and their connection with notions such as mutually unbiased bases, gaussian states etc. and their role in entanglement in gaussian states are highlighted.

Venue: NITheP Seminar Room, 3\(^{rd}\) floor