



Institute for Research in Fundamental Sciences
School of Particles and Accelerators

Speaker : Prof. Orlando Luis Goulart Peres
State University of Campinas (UNICAMP), Brazil

Title: Introduction to neutrino physics 1

Abstract: We are going to make an introductory course for the neutrino physics and in particular for neutrino oscillation phenomena. In the first part, I will talk about the properties of neutrinos in Standard Model and the recent new discovered properties of neutrino masses and mixing. In second part I will talk the about what did not know about neutrinos and what we can know in near future.

Time: Sunday (July 26) and Monday (July 27) 2015 at 11:00

Title: Status of neutrino physics 2

Abstract: In the last 15 years our knowledge of the neutrino physics change radically. We understand now a physics mechanism made the neutrino oscillate between different flavors. This oscillation is induced by neutrino masses and mixing angles that related flavor eigenstates of neutrinos with mass eigenstates. We are .going to show the present status of neutrino physics and exciting possibilities that are available today Other topics such violation of equivalence principle, neutrino decay and new neutrino states will be discussed.

Time: Tuesday (July 28) 2015 at 15:00

Address: School of Particles and Accelerators
Larak Seminar Room