Area Seminar

Title	??/? in Standard Model
Date and Time	02/07/2013 16:00:00
Speaker	Girish Kumar PRL, Ahmedabad
Area	Theoretical Physics
Venue	Room No. 469
Abstract	CP violation is the violation of compound symmetry associated with charge conjugation (C) and parity (P) by the weak force. It has been nearly 50 years since the surprising discovery of violation of CP symmetry in hadronic decays of kaon decays was made yet it remains as a fascinating effect because of its elusiveness at both the experimental and theoretical levels. Complex parameters ? and ?? parametrize the indirect and direct CP violation respectively in kaon decaying to two pion. In this talk, parametrization of two pion decay will be presented. After introducing the basic formalism of operator product expansion (OPE) in weak decays , which is a formal framework to derive low energy effective theory of weak interaction of quarks, we shall discuss the theoretical status of ??/? in Standard Model.