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TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS Seminar

Title : The Search for New Particles at the LHC

Speaker : Michael E. Peskin, SLAC, Stanford University, USA

Date : Wednesday, April 18, 2018

Time : 11:00 AM

Venue : Nambu Discussion Room (Left), ICTS Campus, Bangalore

Abstract : It is well known that the LHC experiments have not discovered new elementary particles beyond the Higgs boson. Still, it is interesting to know how the LHC experiments have looked for new particles. We need this knowledge to understand what quoted limits do and do not exclude. Beyond this, it is important for theorists to appreciate the ingenuity that has been applied to particle searches and the new methods for experimental particle physics that have been developed for this study. In this lecture, I will review a representative set of particle searches at the LHC and the associated methods developed for these searches, at a level that I hope will be appropriate for string theorists.