

Tata Institute of Fundamental Research

PUBLIC LECTURE

Exploring Nature Moments after the Big Bang
by Prof. Sir Tejinder Singh Virdee, FRS
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Friday, November 18, 2016 at 5:00 p.m.

Homi Bhabha Auditorium, TIFR

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At the Large Hadron Collider (LHC) at CERN, Geneva we can probe Nature moments after the Big Bang to tackle the questions about the origin, evolution and composition of our universe. These include: What is the origin of mass? What constitutes dark matter? How many dimensions of space and time do we live in? Why is the universe composed of matter and not antimatter? The answers have the potential of altering our perception of how Nature operates at the fundamental level.

Tejinder Virdee is Professor of Physics at Imperial College, London. After the UA1 experiment (1990), where W and Z bosons were discovered, Virdee concentrated on the physics and experimentation at CERN's Large Hadron Collider. He is one of the founding fathers of the Compact Muon Solenoid Collaboration (CMS) at the LHC and has played a major role in all phases of the experiment, from conception and design, through construction to the extraction of science that have already lasted around 25 years. He was involved in almost all the major choices made for the experiment and predictions of the physics performance. He pioneered some of the techniques used in its calorimeters crucial for the discovery of a Higgs boson announced by the CMS experiment in July 2012, along with the sister experiment ATLAS.



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