University of Mumbai & Department of Atomic Energy

CENTRE *for* EXCELLENCE IN BASIC SCIENCES

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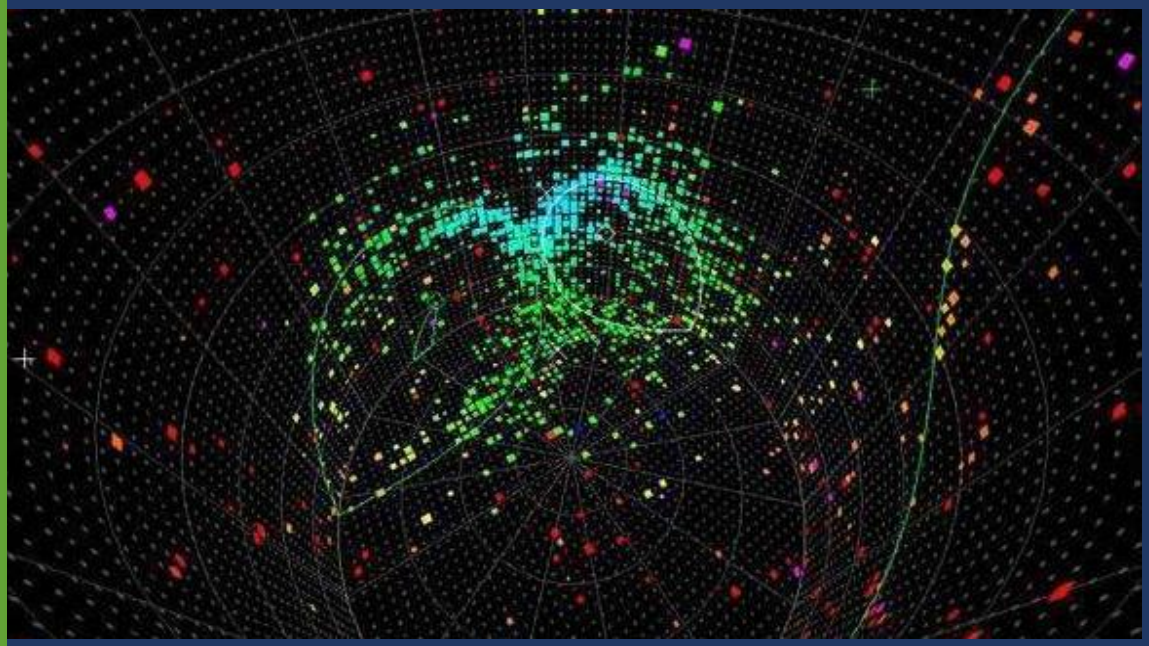
मौलिक विज्ञान प्रकर्ष केन्द्र

Tuesday **COLLOQUIUM**

The changing flavours of neutrinos: journey to Nobel 2015 and beyond

Professor Amol Dighe, TIFR, Mumbai



Tuesday, February 16, 2016 at 4 p.m

PF AG 14, Prefabs, Annabhau Sathe Bhavan
University of Mumbai, Vidyanagari

Extraordinary puzzles need extraordinary solutions. The Physics Nobel Prize 2015 was given for solving two such extraordinary puzzles, which were set by the intriguingly invisible particles called neutrinos, produced inside the Sun and in the Earth's atmosphere. The solutions involved a mixture of particle physics, astrophysics, and quantum mechanics in action over large distances. They firmly established how the Sun shines, and forced us to go beyond the Standard Model of particle physics. In this talk, I shall trace the journey to the solutions of these puzzles. I shall describe our current understanding of the nature of neutrinos, and try to convey the excitement in the growing field of neutrino physics, astrophysics and cosmology.

All are welcome

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