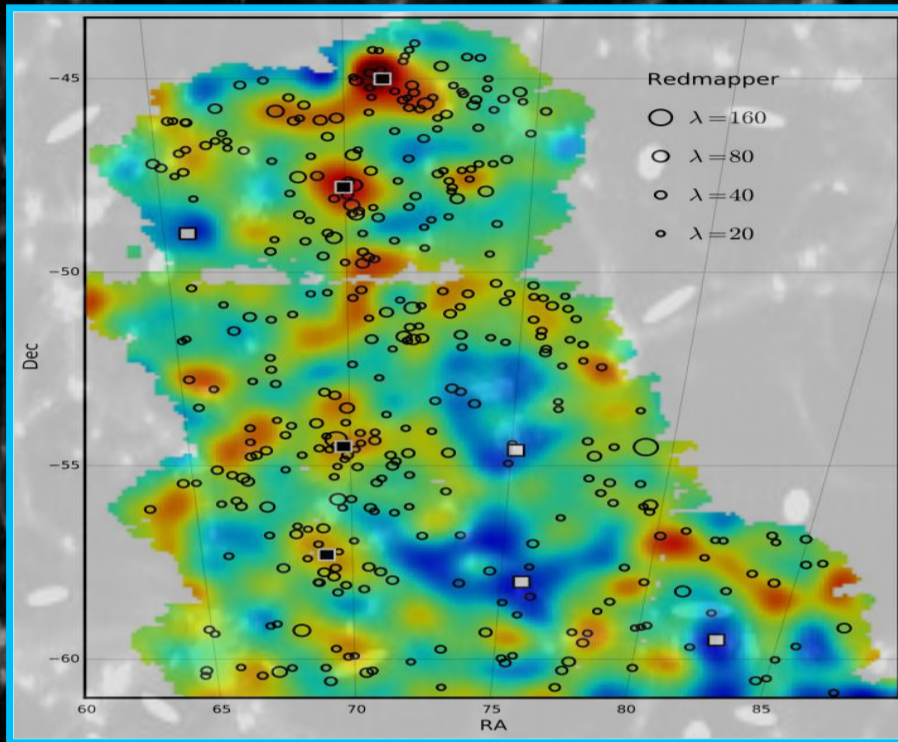


Tata Institute of Fundamental Research
Endowment Fund

6th Madanlal Mehta Memorial Lecture

Beyond the Standard Cosmological Model



Prof Bhuvnesh Jain
University of Pennsylvania

Observational advances in cosmology have led to the emergence of a standard model that explains the accelerated expansion of the universe and the distribution and dynamics of galaxies. Cold dark matter and dark energy are the leading components of the energy density of the universe. I will give an overview of ongoing galaxy and cosmic microwave background surveys that are testing this model. Ideas that provide alternatives to the minimal standard model will then be introduced, such as the possibility that gravity on large scales deviates from the predictions of general relativity. Using recent measurements of gravitational lensing, I will describe how upcoming surveys can potentially discover new physics.

Monday, 7th December, 2015, at 4pm

Lecture Theatre AG 66

TIFR, Homi Bhabha Road, Colaba, Mumbai 400005

For details, call 22782500, 22782089,
email: pro@tifr.res.in

Talk is open to all, Non TIFR members are
requested to carry valid photo id card in person.