

Reconstructing cosmology

The cosmological standard model is founded on the assumption that the universe is isotropic and homogeneous when averaged on large scales. The CMB dipole anisotropy is attributed to our local motion relative to the cosmic rest frame in which it is isotropic. There must then be a corresponding dipole in the distribution of high redshift sources. However the the matter dipole traced by radio sources & quasars significantly exceeds this expectation. This calls into question the assumption of the FLRW metric and the consequent inference that the universe is dominated by dark energy.

Primary author: Prof. SARKAR, Subir (University of Oxford)

Presenter: Prof. SARKAR, Subir (University of Oxford)

Session Classification: Plenary XV - Emerson Auditorium