

MONDAY

# COLLOQUIUM

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Verifying fundamental suppositions underlying the 'standard' cosmological model

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09 Sep 2024 (Monday) | 16:00 Hrs (Tea / Coffee 15:45 Hrs) | Venue: TIFRH Auditorium

The remarkable success of recent cosmology in pinpointing a consistent concordance model relies on few foundational assumptions of global topology, homogeneity, isotropy of the universe, scale independence of fluctuations, etc. Increasingly precise cosmological observations, such as the exquisite measurements of the CMB sky from ESA Planck space mission, have opened the possibility of robust independent tests of these assumptions. I will present key results on this theme including those from my research programme on this theme.