

Colloquium

Probing the universe using absorption spectroscopy

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Absorption lines seen in spectra of distant astrophysical sources carry luminosity unbiased information on intervening matter. In the framework of standard cosmology these signatures are used to probe (i) the background cosmology, (ii) background radiation fields in the universe, (iii) matter density fluctuations and their evolution, (iv) formation and evolution of galaxies and (v) chemical enrichment of the universe. In this talk the speaker will provide basic overview of the topic, major accomplishments and future prospects in view of various upcoming Mega-Science projects in astronomy.

Monday, Aug 14th 2023

4:00 PM (Tea / Coffee 03.45 PM)

Auditorium, TIFR-H