

ICTS Astrophysical Relativity Seminar

Title : Probing the early Universe using cosmological 21-cm signal

Speaker : Rajesh Mondal (Stockholm University, Sweden)

Date : 24th March 2021

Time : 02:00 pm

Abstract : The first billion years of cosmic history of the Universe mark the formation of the first stars and galaxies. The appearance of these sources set in motion many lasting changes. The most important one was the transition of all normal matter in the Universe from a cold and atomic state to a hot and ionized one, known as Epoch of Reionization. This epoch holds the key to unlocking many of the remaining mysteries in cosmology, astrophysics, and physics. However, limited observational information is available in this field of research. Fortunately, this is currently at the forefront of cosmological research, for which groundbreaking international projects (e.g. SKA, HERA, REACH, JWST, TMT, etc.) are soon to come online. One observational probe which can answer most questions related to reionization is the 21-cm signal produced by neutral hydrogen. I will describe some of the most exciting frontiers in current studies of reionization.

Venue : Please click on the link to join the seminar

<https://zoom.us/j/92517344489?pwd=R0lINkplOcwISVVGdHMEtUYWRpMHBwZz09>

Meeting ID: 925 1734 4489

Passcode: 544944