

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

Org. by

School of Physical Sciences

Title:	Early galaxy formation and its large-scale effects
Speaker:	Dr. Pratika Dayal, The University of Groningen, The Netherlands
Date:	April 05, 2022 (Tuesday)
Time:	11:30 Hours (IST)
Venue:	C.V.Raman Hall, 2nd Floor, Main Building, IACS
Abstract:	Galaxy formation in the first billion years mark a time of great upheaval in our cosmic history: the first sources of light in the Universe, these galaxies ended the 'cosmic dark ages' and produced the first photons that could break apart the hydrogen atoms suffusing all of space starting the process of cosmic reionization. At the forefront of astronomical research, the past few years have seen cutting-edge instruments provide tantalising glimpses of such galaxies chaotically assembling in an infant Universe. I will show how this data has provided an unprecedented opportunity to pin down the reionization state of the Universe, understand the physical properties of early galaxies, and study the key physics driving their formation and evolution. Time permitting, I will try to give a flavour of how 21cm emission from the first billion years can provide a powerful testbed for Dark Matter models beyond "Cold Dark Matter".

All are cordially invited to attend the seminar