

Institute Colloquium (Hybrid mode)

Title: Nonlinear vibrational spectroscopy of aqueous solutions and its relations to underlying structure and dynamics

Speaker: Prof. Amalendu Chandra, Department of Chemistry, IIT Kanpur

Date & Time : Thursday 17-th March, at 16:00 HRS

Venue: C.V. Raman Hall

Zoom details

Topic: Institute Colloquium on Thursday 17-th March, 2022 at CV Raman Hall
Time: Mar 17, 2022 03:45 PM India

Join Zoom Meeting

<https://zoom.us/j/98766682505>

Meeting ID: **987 6668 2505**

Passcode: **918008**

Abstract : We will discuss our recent studies of nonlinear vibrational spectroscopy of aqueous solutions using a combination of classical molecular dynamics, ab initio quantum calculations and spectral mapping methods. Specifically, we will present a brief overview of our calculations of one- and two-dimensional infrared spectroscopy including those of surface specific vibrational sum frequency generation spectroscopy of stretch modes of water in the mid-IR region and how our theoretical results compare with available experiments in the literature.