



Module PMRF-ISSS017/2022

Thermodynamics and Statistical Mechanics

Name of the PMRF student

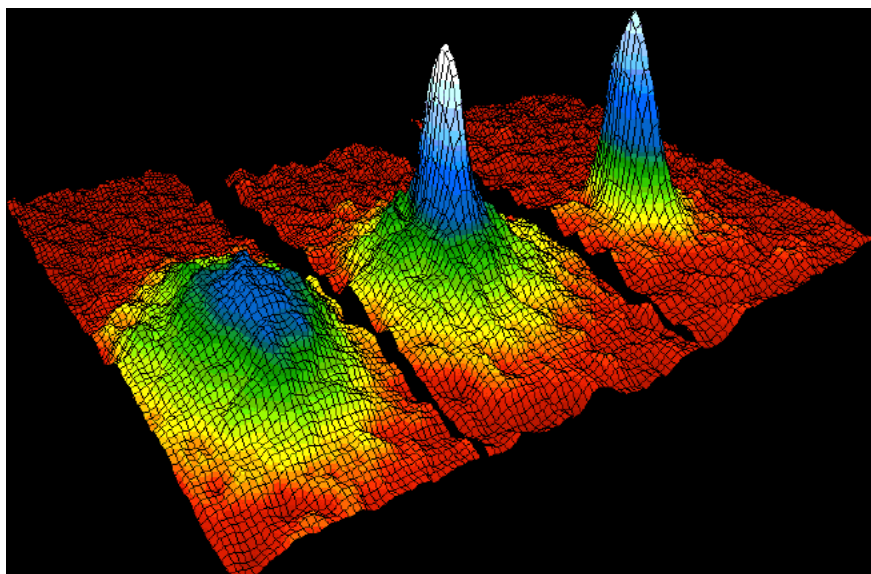
Sreemayee Aditya

Required background of the students taught

This lecture series would be beneficial for students pursuing undergraduate/postgraduate studies in physics and engineering.

Online session coordinator

Will be chosen from the list of registrants



Details of the content of the module

Zeroth and First law of Thermodynamics,
Second law of Thermodynamics, Concept of
Entropy (2 classes)

Thermodynamic Potentials, Maxwell Relations,
Kinetic Theory of Gases, Introduction to Real
Gases (4 lectures)

Statistical Mechanics: Maxwell-Boltzmann law,
Quantum Statistics, Concept of Equilibrium,
Fermi-Dirac distribution, Electron gas, Bose-
Einstein distribution, Photon gas (6 lecture

Schedule of the module

Saturdays 4 PM -5:30 PM. (one 1.5 hours class/
week)

The duration of the lecture series will be from 2nd
July to 1st October, tentatively.

Meeting link : Will be shared later

[Link](#)

Contact email ID: issf.forum@gmail.com

Registration link:

<https://forms.gle/kNB9y1fKowJzEV2s5>