

PHY 634-Low Temperature Physics
Instructor : Dr. Jayita Nayak

This is a PG course intended for master and doctoral students of Physics department who wishes to pursue research career in condensed matter physics.

Course Content:

Production of low temperature; Cryostat Design and Experimental Techniques applied to low temperature; thermometry, specific heat, transport phenomena, thermal, electrical and magnetic properties, superconductivity, application of superconductivity, superfluidity and associated phenomena.

Textbook: Matter and Methods at Low temperature. Author: Frank Pobell.

Evaluation: Attendance, Quiz, Presentation, Examination.

Exact grading policy shall be announced during the first lecture of the course.

Contact: Dr. Jayita Nayak
e-mail: jnayak@iitk.ac.in