

Gravitational Waves and LIGO India Workshop 2025 @ H. N. B. Garhwal (Central) University, Uttarakhand

Monday 28 April 2025 - Friday 2 May 2025

H.N.B. Garhwal (Central) University

Scientific Programs

Lectures (Theory)

General Relativity
Gravitational Waves
Gravitational Wave Sources
Gravitational Wave Searches
Gravitational Wave Astrophysics

Lectures (Instrumentation)

Introduction to detectors
Detector Calibration
Detector Characterization
Interferometers
Feedback Control

Gravitational Wave Analysis

GW Parameter Estimation
Noise Analysis
Data Analysis

Hands-on Sessions

Instrumentation
Data Analysis
Interferometer Simulations using Finesse

Public Outreach Programs

LIGO India: Challenges and Opportunities
Astrophysics Planetarium Visit