



**S N BOSE NATIONAL CENTRE  
FOR BASIC SCIENCES**

*Block JD, Sector III, Salt Lake, Kolkata 700 106*

## **DEPARTMENTAL SEMINAR**

# **Department of Astrophysics and High Energy Physics**

**16<sup>th</sup> April, 2024**

**4. 00 PM**

**FERMION / ONLINE**

### **SPEAKER**

**Dr. Sachin Grover,  
PhD Scholar, Harish-Chandra Research Institute,  
Allahabad**

### **TITLE OF THE TALK**

Duality defects of  $D_n$  type Niemeier Lattice CFTs

### **ABSTRACT**

In this talk, we will construct topological duality defects in 2-dimensional  $c=24$  meromorphic conformal field theories (CFTs) with a  $D_n$  current algebra. In particular we will demonstrate a method to extend the group of usual invertible symmetries of the CFT to the fusion category of symmetries with a unique non-invertible symmetry.

### **HOST FACULTY**

**Dr. Parijat Dey, Assistant Professor**

**Dept. of ASTROPHYSICS AND HIGH ENERGY PHYSICS**

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