



ICTS

INTERNATIONAL  
CENTRE *for*  
THEORETICAL  
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

## **ICTS Group Theory and Representation Theory Seminar**

**Title** :  $SU(2)$  representations from geometry

**Speaker** : Pranav Pandit (ICTS-TIFR, Bengaluru)

**Date** : Tuesday, 09 December 2025

**Time** : 11:30 AM (IST)

**Abstract** : Unit quaternions act on the two-sphere. Viewing the sphere as the complex projective line, the induced action on holomorphic sections of line bundles produces all irreducible representations of  $SU(2)$ . I will use this example to indicate a general mechanism.

**Venue** : Feynman Lecture Hall