



ICTS

INTERNATIONAL
CENTRE *for*
THEORETICAL
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS Group Theory and Representation Theory Seminar

Title : The Howe-Moore Ergodicity Theorem

Speaker : T. N. Venkataramana (ICTS-TIFR, Bengaluru)

Date : Tuesday, 19 August 2025

Time : 11:30 AM (IST)

Abstract : We will show that both the horospherical flow and the geodesic flow on (circle bundles on) compact Riemann surfaces are ergodic with respect to a natural measure. This will be shown to be a simple consequence of a theorem (The Howe-Moore Ergodicity Theorem) on unitary representations of non-compact simple Lie groups. We will use methods of functional analysis to prove the latter.

Venue : Feynman Lecture Hall