



Theoretical Statistics and Mathematics Unit, Kolkata
INDIAN STATISTICAL INSTITUTE

SEMINAR

Date: June 16, 2025
Time: 11:00 AM

VENUE:

L- 2

(4th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

Dimension of module over a II_1 factor & coupling constant

SPEAKER:

Samik Dhali

Stat-Math Unit, ISI Kolkata

ABSTRACT:

Given a module H over a II_1 factor M one can define coupling constant as the ratio " $tr_M([M'x])/tr_{M'}([M'x])$ " for $x \in H \setminus \{0\}$, provided M' (M commutant of M in $B(H)$) is also a II_1 factor. Due to von Neumann it turns out that coupling constants is independent of the chosen non zero vector " x " & is actually equal to $dim_M(H)$. We will discuss the proof shortly.

ALL ARE CORDIALLY INVITED