



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

SEMINAR

Date: May 31, 2024

Time: 03:00 PM

MODE: Online

Google Meet link: <https://meet.google.com/ebh-bxbs-hgh>

TITLE:

Projective envelope of a Compact Quantum Group

SPEAKER:

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ABSTRACT:

A projective coaction is an action of a compact quantum group on a type-I factor. In this talk, we briefly discuss about projective representation of a group and lifting of a projective representation to a linear representation of some group and connection with universal central extension of group. Then, I will discuss about some of our proven results which are

- 1) Maximal projective envelope of Q , where each projective representation of Q is a corepresentation.*
- 2) Minimal projective envelope of Q : (This is the interesting one) There is only one projective representation U_x from the equivalence class of each irreducible projective representation x , which is corepresentation of Minimal projective envelope.*

This is an ongoing work with Prof. Debashish Goswami.

ALL ARE CORDIALLY INVITED