



INDIAN STATISTICAL INSTITUTE

203 B.T. Road, Kolkata-700108

Theoretical Statistics and Mathematics Unit
Monday Colloquium

Date: February 06, 2023

Time: 04:15 P.M.

Venue: L-2, Stat-Math Unit (4th Floor, A.N. Kolmogorov Bhavan)

Prof. Kalyan B. Sinha

JNCASR, Bengaluru

TITLE:

**Sufficient Statistic and Rao-Blackwell Theorem
in Quantum Probability**

ABSTRACT:

In the decision-theoretic formulation of Classical Statistics, the concept of a sufficient statistic plays a central role. Here a parallel concept of a sufficient statistic is proposed and as a consequence, various levels of "Quantum Rao-Blackwell theorems " are proven.

ALL ARE CORDIALLY INVITED