



# INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

## SEMINAR

Date: June 13, 2024

Time: 02:00 PM

### VENUE:

**L- Infinity**

(5<sup>th</sup> Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

### TITLE:

**Kaplansky Density Theorem**

### SPEAKER:

**Samik Dhali**

Stat-Math Unit, ISI Kolkata

### ABSTRACT:

*Kaplansky Density theorem States that a  $C^*$  subalgebra of  $B(H)$  & it's strong operator clousre shares the same closed unit ball in  $B(H)$ . As a corollary we will prove if the unit ball of a  $C^*$ - subalgebra is strong operator closed , then it is a von nuemann algebra.*

**ALL ARE CORDIALLY INVITED**