

## **SEMINAR NOTICE**

**On 20<sup>th</sup> June (Monday), 2022**

**Time: 3:00 PM (Noon)**

**VENUE- PAMU Seminar Room (offline)**

Physics and Applied Mathematics Unit  
Indian Statistical Institute, Kolkata- 700108

**Speaker: DR. NAQUEEB AHMAD WARSI**

*Electronics and Communication Sciences Unit, Indian Statistical Institute, Kolkata*

**TITLE:** Quantum intersection with applications to hypothesis testing

**ABSTRACT:** In this talk we will discuss the problem of intersection of subspaces in the context of measurement of a quantum state. We will see that this problem is very closely related with Jordan's Decomposition theorem for a pair of projectors. As an application we will discuss the converse of Quantum Stein's lemma which gives the best exponent for the decay of missed detection.

**All are Cordially Invited to Attend**

(Head, PAMU)