



**Theoretical Statistics and Mathematics Unit, Kolkata**  
**INDIAN STATISTICAL INSTITUTE**

**SEMINAR**

Date: January 28, 2026

Time: 03:30 PM

**VENUE:**

**L- Infinity**

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

**TITLE:**

**Injectivity of spherical means on H-type groups**

**SPEAKER:**

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**ABSTRACT:**

*Injectivity of three types of spherical means on an H-type group will be explained. The first one is the standard spherical mean operator, which is the average of a function over spheres in the complement of the center, the second one is the average over the product of spheres on the center and its complement and the third one, average over spheres defined by a homogeneous norm. These means are injective on  $L^p(G)$  for  $1 \leq p \leq 2m/(m-1)$  where  $m$  is the dimension of the center.*

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