



## Colloquium

April 19, 4:05 p.m. (9<sup>th</sup> Period)  
(in the Atrium)

**Speaker:** Aritram Dhar

**Title:**  $q$ -series: Computations and Applications

**Abstract:** In this talk, I will present computational aspects of  $q$ -series in the theory of partitions through some recent results. In particular, I will present generating function proofs of some newly discovered partition identities and elementary proofs of well-known  $q$ -hypergeometric series-product formulae. I will also provide a few applications of  $q$ -series.