

## Tuesday COLLOQUIUM

# q-binomial theorem

BY Prof. S. Krishnan, IIT, Bombay

A not-well-known generalization of the binomial theorem is the q-binomial theorem. This result finds many applications in various areas of enumerative combinatorics like q-series enumeration of permutations with respect to statistics and counting vector subspaces of finite-dimensional vector spaces over a finite field.

Prof. Krishnan completed his PhD at TIFR in Theoretical Computer Science in 2004 and did his post-doctoral work at Kiel, Germany from 2006-2008. He is currently a member of the Department of Mathematics, IIT Bombay. His main research interests are in Enumerative Combinatorics and in Algebraic Graph Theory.

**TUESDAY, 20<sup>TH</sup> SEPTEMBER AT 1545 HRS.**

Seminar Room, PF AG 14  
Near Annabhau Sathe Bhavan  
University of Mumbai, Kalina