



ICTS-NCBS Dynamic Friday

Title : Correlations in multispecies exclusion processes

Speaker : Arvind Ayyer, IISc, Bangalore

Date : Friday, November 1, 2019

Time : 2:15 PM

Venue : NCBS (ground floor of Simons Centre)

Abstract : Exclusion processes are nontrivial exactly solvable models of

transport which have potential applications in nonequilibrium processes like traffic flow and molecular motors. We consider a multispecies Totally Asymmetric Simple Exclusion Process (TASEP) on a finite ring. We show that nearest neighbour correlations have a simple structure. Although we have proofs, we are far from a complete understanding of this simplicity. Time permitting, I will mention some generalisations. This is

joint work with Svante Linusson.

Email: academicoffice@icts.res.in Website: www.icts.res.in