



## Theoretical Statistics and Mathematics Unit

### Seminar

Date: September 14, 2016

Time: 11:30 AM

Venue: L2, Stat-Math Unit (4th Floor, A.N. Kolmogorov Bhavan)

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## Oriented Planar algebras

### Abstract

Starting with the definition of oriented planar algebras, I will present a few results about annular representations of free product of rigid semi-simple strict  $C^*$ -tensor categories. Then I will move on to describing the same for Fuss-Catalan categories and representation categories of the free unitary quantum group  $A_u(F)$  for a positive  $F$  in  $GL_n(\mathbb{C})$ .

These results are part of two ongoing projects, one with Shamindra K. Ghosh and Corey Jones (Vanderbilt University) and the other with Jyotishman Bhowmick, Shamindra K. Ghosh and Corey Jones.

All are cordially invited