



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

Room A ,Feinberg Graduate School Building
on Wednesday, Jan 23, 2019
at 15:30

NOTE SPECIAL DAY AND PLACE

Pavel Etingof
MIT

Symmetric tensor categories in positive characteristic

Abstract:

I will talk about my joint work with Dave Benson which constructs new symmetric tensor categories in characteristic 2 arising from modular representation theory of elementary abelian 2-groups, and about its conjectural generalization to characteristic $p > 2$. I will also discuss my work with Gelaki and Coulembier which shows that integral symmetric tensor categories in characteristic $p > 2$ whose simple objects form a fusion category are super-Tannakian (i.e., representation categories of a supergroup scheme).