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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, 2019at 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).