## Department of Mathematics, BGU

## AGNT

On Wednesday, December, 19 2018

At 15:10 – 16:25

In 101-

Kevin Coulembier (University of Sydney)

will talk about

## Tensor categories in positive characteristic

Abstract: Tensor categories are abelian k-linear monoidal categories modeled on the representation categories of affine (super)group schemes over k. Deligne gave very succinct intrinsic criteria for a tensor category to be equivalent to such a representation category, over fields k of characteristic zero. These descriptions are known to fail badly in prime characteristics. In this talk, I will present analogues in prime characteristic of these intrinsic criteria. Time permitting, I will comment on the link with a recent conjecture of V. Ostrik which aims to extend Deligne's work in a different direction.