

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.