

CHROMATIC HOMOTOPY, K -THEORY AND FUNCTORS

CIRM, LUMINY, 23-27.01.2023

FRIDAY 11:30 – 12:30, **Piotr Pstragowski** (Institute for Advanced Study / Harvard University):

Synthetic modules and the even filtration.

I will describe work in progress on even synthetic R -modules, a canonical deformation of the category of modules over a ring spectrum which informally encodes the complexity of R -modules with even cells. This leads to a filtration which in the commutative case is closely related to the even filtration of Hahn-Raksit-Wilson, giving a variant of the latter which is naturally defined on associative rings and whose associated graded can be explicitly identified with sheaf cohomology.