

We will continue on Thursday, **May 30, in M5 at 1pm** by the talk

M. Lieberman

Cofibrant generation and stable independence

Abstract:

We discuss recent joint work with Rosicky and Vasey concerning connections between stable independence notions and cofibrant generation of weak factorization systems in locally finitely presentable categories. In particular, we show that for a sufficiently nice class of morphisms M in an lfp category K , M is cofibrantly generated just in case the wide subcategory of K with morphisms precisely those in M has a stable independence relation. This result, and its consequences, cover a wide variety of examples and, in particular, provide an ideal context in which to analyze the stability of Ext-orthogonality classes of models of the sort considered in Baldwin/Eklof/Trlifaj.