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Cihan Bahran* (bahra004@umn.edu). *Modules over EI-categories with finite projective dimension.*

Given a finite group and a family of subgroups, we can construct various categories like the orbit category, fusion category, transporter category. Modules over these categories with finite projective dimension are of interest, for example when studying obstructions for the group acting on a space with a given family of stabilizer subgroups. In this talk, using the general framework of EI-categories, we will consider the question of detecting the finiteness of the projective dimension by restriction to subcategories. (Received July 29, 2014)