
SHIPING LIU, Université de Sherbrooke

Module categories with a null forth power of the radical

This is a joint work with Youqi Yin. Motivated by the well known fact that an artin algebra is semi-simple if and only if its module category has a null radical, our work aims to initiate a study of the representation theory of representation-finite artin algebras in terms of the nilpotency of the radical of their module category. In this talk, we shall give a complete list of artin algebras A such that $\text{rad}^4(\text{mod } A) = 0$.