Generators and dimensions in triangulated categories

Oriol Raventós

Fakultät für Mathematik, Regensburg Universität, Regensburg, Germany

The existence of a generator in a triangulated category has strong consequences. Most importantly, it is a fundamental assumption for proving representability results, which in their turn are used to show the existence of adjoint functors and duality formulas. In this talk, we briefly introduce different notions of generators and dimensions of triangulated categories and give some examples.