

EDUARDO MARCOS

Universidade de Sao Paulo

Koszul Modules and Modules with Linear Presentations (25-30 min)

Algebras for which every module is a Koszul module are classified. A necessary condition for the subcategory of graded modules with linear presentations to be equal to the subcategory of Koszul modules is given. This condition is also a sufficient condition when the algebra is radical cube zero. Finally, these subcategories are studied when the algebra is a one point extension. Joint work with E. Green, (Virginia Tech), Pu Zhang (University of Science and Technology of China).