Abstract
In this lecture we will give an brief overview of Grothendieck categories and of localization of abelian categories by a Serre subcategory, we will also state the famous Gabriel-Popesco Theorem which allows to characterize Grothendieck categories as localization categories of a module category over some ring R. We will sketch three different proofs of this result, the original one by Gabriel and Popesco and two short proofs, one by Takeuchi and another one by Mitchell.

References


