

Representation and finitistic dimensions of Artin algebras

Changchang Xi

(Capital Normal University, Beijing, China)

Email: xicc@bnu.edu.cn

Abstract

In this series of lectures, we shall first start with the definition and basic properties of representation dimension which was introduced by Auslander in his Queen Mary College Mathematics Notes in 1971, and then survey the developments on this subject as well as the relationship of the representation dimensions with the finitistic dimensions of algebras. Also, we shall talk about the recent developments on the finitistic dimension conjecture which states that every Artin algebra should have finite finitistic dimension.