A short introduction to representations of quivers

Kavita Sutar
Northeastern University

December 3, 2010

In my talk, I will provide a short survey of representations of algebras and representations of quivers.

The representation theory of quivers emerged as a tool to understand the representations of finite-dimensional algebras. Soon it became a subject of interest in its own right, partly owing to the information it provided about representations of algebras and partly due to its intrinsic structure. I will talk about the basic results in this subject area and try to explore some geometric connections.

No previous knowledge of any of the above terms will be assumed. I shall try to make the talk enjoyable for anybody who knows basic group theory and linear algebra.