

Algebra and Geometry Seminar

Speaker: Yariana Diaz (University of Iowa)

Title: Stability Functions for Dynkin Quivers and Almost Split Sequences

Abstract: We provide an efficient criterion for determining which stability functions make all indecomposable representations of a Dynkin quiver Q stable. By definition this requires considering an inequality for each pair consisting of one indecomposable representation of Q and one of its proper, non-zero subrepresentations. We use Auslander-Reiten theory to significantly reduce the number of inequalities down to one inequality for each almost split sequence with indecomposable middle term.