RUTGERS

UNIVERSITY | NEWARK

Mathematics Colloquium

Quiver Grassmannians and wall crossing

Mandy Cheung (Harvard University / IAS)

Abstract

Scattering diagrams theta functions and broken lines were developed in order to describe toric degenerations of Calabi-Yau varieties and construct mirror pairs. Later, Gross-Hacking-Keel-Kontsevich unravel the relation of those objects with cluster algebras. In the talk, we will discuss how we can combine the representation theory with these objects. We will also see how the broken lines on scattering diagram give a stratification of quiver Grassmannians using this setting.

Wednesday, 15 February 2017, 4pm

Smith Hall 204

Tea and refreshments will be served at 3:45pm.