

FELIX KLEIN SEMINAR

Guest Speaker: Amihay Hanany
Imperial College

Date: Thursday, October 27, 2016

Time: 2:00 PM

Location: 258 Hurley Hall



Lecture Title:
Open Strings, Quivers and Mutations

Abstract

This talk will review the perspective of strings on quivers and mutations. Starting from a brief mention of the closed string which was well studied in the 80s and early 90s we will move to a discussion on the open string and the natural way it gives rise to the notion of quivers - the so called quiver gauge theories. This perspective allows the study of various dynamical questions in brane physics, but also brings contact with fields in mathematics in representation theory and algebraic geometry. We will discuss quivers that arise on branes at singularities, brane tilings, and the phenomenon of Seiberg duality - the physics counterpart of a quiver mutation.