THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

Room 290C, Ziskind Building
on Tuesday, Jan 03, 2017
at 11:15

NOTE CHANGE IN DATE TO JAN. 03 2017, room 155

Elena Gal
Oxford University

A geometric approach to Hall algebras

Abstract:

The Hall algebra associated to a category can be constructed using the Waldhausen S-construction. We will give a systematic recipe for this and show how one can use it to construct higher associativity data. We will discuss a natural extension of this construction providing a bi-algebraic structure for Hall algebra. As a result we obtain a more transparent proof of Green's theorem about the bi-algebra structure on the Hall algebra.