Peter Samuelson, University of Edinburgh

**Hall Algebras and the Fukaya Category**

The Hall algebra is an invariant of an abelian category C whose multiplication comes from “counting extensions in C.” These algebras typically have interesting representation theory, and they have found applications in knot theory, mathematical physics, combinatorics, and more. In this talk we discuss some of the history of Hall algebras, old and new, and then give a conjectural description of the Hall algebra of the Fukaya category of a topological surface. (Joint work with B. Cooper.)

Thursday, September 28, 2017
at 4:00 PM in 532 Malott Hall

Refreshments will be served at 3:30 PM in the Mathematics Department lounge (532 Malott Hall).