

1081-14-109

Nicolo' Sibilla*, sibilla@math.northwestern.edu. *Mirror Symmetry and Ribbon Graphs.*

In this talk, I will explain a conjectural description of the Fukaya category of a punctured riemann surface in terms of a sheaf of dg categories over its skeleton. This is based on recent ideas of Kontsevich, and is joint with D. Treumann and E. Zaslow. I will discuss applications to mirror symmetry for degenerate elliptic curves, and generalizations to higher dimensions. Further, time allowing, I'll talk about the way in which this framework gives interesting algebro-geometric information on degenerate ellpitic curves, and describe work of myself on mapping class group actions on their derived categories. (Received February 03, 2012)