

1138-14-40

**Jesse Leo Kass\***, Department of Mathematics, University of South Carolina, 1523 Greene Street, Columbia, SC 29208. *How to count curves equivariantly.*

A big theme in modern algebraic geometry is that it is often productive to analyze a counting problem (“how many singular curves?”) by identifying the desired count as an invariant in algebraic topology and then studying it using tools from topology. Focusing on the accessible case of pencils of plane conics, I will explain how equivariant homotopy theory provides useful tools for carrying out this idea in a way that records interesting information about symmetries. (Received January 23, 2018)