## 1012-55-79

Pavel Etingof, Andre Henriques and Joel Kamnitzer\* (jkamnitz@aimath.org), Department of Mathematics, MIT, room 2-230, 77 Mass Ave, Cambridge, MA 02139-4307, and Eric Rains. Cohomology ring of the moduli space of genus 0 stable real curves with marked points.

We will explain the recent computation of the cohomology of the Deligne-Mumford moduli space of genus 0 stable real curves with marked points. We will also explain the relationship between this cohomology ring and the Lie algebra of the fundamental group of this space. This fundamental group, called the cactus group, acts on multiple tensor products in coboundary categories. We will explore this in analogy to the Drinfeld-Kohno theorem. (Received September 07, 2005)