

---

**EMILY BARNARD**, DePaul University

*Triangulations and maximal almost rigid representations*

Let  $kQ/I$  be a finite representation type gentle algebra. Two modules  $M$  and  $N$  are called almost rigid if they do not have any nonsplit extensions or if any extension between  $M$  and  $N$  is indecomposable. A module  $T$  is maximal almost rigid (mar) if its indecomposable summands form a maximal collection of pairwise almost rigid modules. In this talk, we show each mar module  $T$  has the same number of summands. We use a modified version of the surface model for the modules of  $kQ/I$  developed by Coelho-Simoes and Baur to show that each mar  $T$  corresponds bijectively to a permissible triangulation of our surface. Finally, we show that the endomorphism algebra of a mar module over  $kQ/I$  is the endomorphism algebra of a tilting module over a bigger gentle algebra. Our results generalize the hereditary type A case, where the mar modules correspond to triangulations of a polygon, and their endomorphism algebras are tilted algebras.