1096-19-201 **Michael Hartglass*** (hartglass.mike@gmail.com). *Guionnet, Jones, and Shlyakhtenko $C^*$ algebras.*

Given a planar algebra, $\mathcal{P}$, Guionnet, Jones, and Shlyakhtenko constructed a family of graded algebras $Gr_k(\mathcal{P})$ associated to $\mathcal{P}$. They proved that their associated von Neumann algebras, $M_k$ form a tower of interpolated free group factors whose standard invariant is $\mathcal{P}$. In this talk, we will examine the $C^*$ algebras $\mathcal{A}_k$ associated to the family $Gr_k(\mathcal{P})$ and show that they have many interesting properties. In particular we will show that in many cases, the $K$-theory of these algebras has an aesthetically pleasing description. This is joint work with David Penneys. (Received August 16, 2013)