Koszul Duality Seminar

Organizer(s): Constantin Teleman and George Melvin

Thursday, 2.10-3pm, 736 Evans

Dec. 5 **Constantin Teleman**, UC Berkeley

Two operads related to genus-zero curves

I will review a couple of Koszul dual operads related to the moduli space of curves of genus zero. One is the *Gravity operad*, the quotient of the little 2-disk operad by the circle action. It encodes some of the Chas-Sullivan string topology operations. The other is the *Hypercommutative operad*, constructed from the homology of Deligne-Mumford spaces of genus zero, which encodes part of the structure of a 2-dimensional TQFT. The duality between them is due to Getzler.

More information can be found at http://math.berkeley.edu/∼gmelvin/kd/kdf13.html