

1125-57-439

Christine Ruey Shan Lee* (clee@math.utexas.edu). *Stability and asymptotics of almost-adequate links.*

In relating quantum knot invariants such as the colored Jones polynomial to the topology of the knot complement, one often considers the stability and asymptotics of the polynomial. Adequate links form a rich class of links satisfying a diagrammatic condition, for which this approach has been particularly successful. For example, the Slope Conjecture is true for an adequate knot, and the corresponding boundary slope comes from a state surface which is easy to visualize. It is also known that the stable coefficients of the polynomial for an adequate knot give volume bounds and other topological information of the knot complement. In this talk, I will discuss a class of links diagrammatically similar to adequate links, which has analogous stability behaviors and asymptotics in the colored Jones polynomial. It is expected that various geometric/topological results known for adequate links will generalize to this class. (Received September 01, 2016)