1112-55-232 **Huan T Vo***, University of Toronto, Canada. *On the $\mathfrak{sl}_2$ Weight System and Intersection Graphs.*

Given a chord diagram D, the value of the $\mathfrak{sl}_2$ weight system on the primitive part of D is a polynomial in c, the Casimir element of $\mathfrak{sl}_2$. It turns out that the coefficient of the highest power of c can be computed in terms of the intersection graph of D. This formula was first conjectured in a paper by Lando et al. In this talk, I will sketch a proof of this fact, which is a simple consequence of the Melvin-Morton-Rozansky conjecture. (Received August 05, 2015)