# Workshop on Representation Theory, Geometry \& Combinatorics 

Organizer: Mark Haiman

Monday June 2-Friday June 6, 9:30-5:00pm, Bechtel 120ABC

Alexander Woo, UC Davis
When is the Kazhdan-Luzstig polynomial $P_{i d, w}$ equal to $1+q^{h}$ ?
I will outline a proof of a conjecture of Billey and Braden giving a combinatorial characterization of permutations $w$ having the property that the Kazhdan-Luzstig polynomial $P_{i d, w}(q)=1+q^{h}$ for some $h$. The new portion of the proof is geometric, using the Decomposition Theorem and a resolution of singularities introduced by Cortez.

