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Elizabeth Milićević* (emilicevic@haverford.edu), Dept. of Mathematics, 370 Lancaster Avenue, Haverford, PA 19041, and **Arun Ram**. *The Peterson Isomorphism: Moduli of Curves and Alcove Walks*.

This talk will describe a labeling of the points of the moduli space of genus 0 curves in the complete complex flag variety using the combinatorial machinery of alcove walks. Following Peterson, this geometric labeling explains the “quantum equals affine” phenomenon which relates the quantum cohomology of this flag variety to the homology of the affine Grassmannian. Time permitting, we will discuss how this labeling yields a rational parameterization of certain Gromov-Witten varieties. (Received September 19, 2016)