

WEEK 2 SCHEDULE

TABLE 1. June 11-June 17

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-9:00					
9:00-10:00		Research	Research	Research	Research
10:00-11:00	Presentations (PB 136)	Research	Research	Research	Research
11:00-12:00	Presentations (PB 136)	Research	Research	Research	Research
12:00-1:00	Presentations (PB 136)	Lunch	Lunch	Lunch	Lunch
1:00-2:00	Lunch	Research	Research	Research	Research
2:00-3:00	Research	Research	Research	Research	Research
3:00-4:00	Research	Research	Research	Research	Research
4:00-5:00	Workshop (PB 134)		Footie	Colloquium (PB 192)	

Workshop: Introduction to Beamer

Colloquium speaker: Pamela Harris (Williams College)

Title: Kostant's partition function

Abstract: In this talk we introduce Kostant's partition function which counts the number of ways to represent a particular weight (vector) as a nonnegative integral sum of positive roots of a Lie algebra. We provide two fundamental uses for this function. The first is associated with the computation of weight multiplicities in finite-dimensional irreducible representations of classical Lie algebras, and the second is in the computation of volumes of flow polytopes. We provide some recent results in the representation theory setting, and state a direction of ongoing research related to the computation of the volume of a new flow polytope associated to a Caracol diagram.

Representation theory research in collaboration with E. Insko, M.Omar, E. Lauber, G. Ngwe, H. Lescinsky, G. Mabie, C. Perez, A. Siddiqui, and A. Simpson. Flow polytope research is joint work with C. Benedetti, R. Gonzalez, C. Hanusa, and M. Yip.

Weekend Activity: San Francisco, leaving from the dorms at 7:30 a.m.