November 14: David Vogan (MIT), "Bruhat order for representations of real reductive groups." Suppose G is a complex connected reductive algebraic group.

The set of equivalence classes of irreducible Harish-Chandra modules for G having trivial infinitesimal character is in one-to-one correspondence with the Weyl group W of G. In this bijection, the length function and the Bruhat order on W acquire representation-theoretic meaning.

Suppose now that $G(\mathbb{R})$ is a real form of G, and $\mathcal{S}$ is the (finite) set of equivalence classes of irreducible Harish-Chandra modules for $G(\mathbb{R})$ having trivial infinitesimal character. I'll explain how to define on $\mathcal{S}$ analogues of the length function and the Bruhat order, and say something about their representation-theoretic meaning.