

May 9: *Quantizing special orbits in $Sp(2n, C)$ (after Barbasch-Wong).*

The preprint <https://arxiv.org/abs/1801.06909v1> of Barbasch and Wong shows how to construct irreducible unitary representations of complex symplectic groups whose restriction to a maximal compact subgroup decompose exactly like the functions on a nilpotent coadjoint orbit; equivalently, like the normalization of the ring of functions on the orbit closure. At the same time, recent work of Jeff Adams in the `atlas` software makes it possible to prove similar theorems (and analogues for real reductive groups) by computer for small groups. I will discuss these results.