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On nilpotent orbits of p -adic special orthogonal groups

The classification of nilpotent (co)adjoint orbits of p -adic groups is in some sense known in the classical case through work of Waldspurger and in general through work of DeBacker. That said, enumerating, or generating explicit representatives of, these orbits is highly nontrivial. In prior work, the author determined an algorithm for relating these two classifications for special linear and symplectic groups, via the intermediary of explicit orbit representatives. This talk concerns recent progress on the case of special orthogonal groups. This is joint work with Tobias Bernstein.