

1048-17-54

Eric Sommers* (esommers@math.umass.edu), Department of Mathematics and Statistics,
LGRT, UMass, Amherst, MA 01002. *A duality map for nilpotent orbits.*

For a simple Lie algebra \mathfrak{g} and its Langlands dual \mathfrak{g}' , we define a certain set of nilpotent orbits in $\mathfrak{g} \times \mathfrak{g}'$. Motivated by work of Achar, we discuss a duality map on this set, which extends the duality map of Lusztig-Spaltenstein. (Received January 16, 2009)