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Ralph Bremigan* (bremigan@bsu.edu), Department of Mathematical Sciences, Ball State University, Muncie, IN 47306-0490. *Computation of gradient flows in flag manifolds.*

On any flag manifold X of a complex semisimple group G , it is well-known that there exists a flow (with respect to the gradient vector field of the squared norm of a moment map) that exhibits a bijection (“Matsuki duality”) between the sets of orbits on X of two distinguished subgroups of G . We will discuss the degree to which this flow is explicitly computable. (Received September 17, 2007)