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Jodi A. Black* (jablack@emory.edu), Emory University, Mathematics and Science Center, 400 Dowman Drive, Suite W401, Atlanta, GA 30322. *Zero Cycles of Degree One on Principal Homogeneous Spaces.*

Let G be an adjoint or simply connected, semisimple, classical algebraic group defined over a field k of characteristic different from 2 and let X be a principal homogeneous space under G over k . We show that if X admits a zero cycle of degree 1 then X has a k -rational point. (Received August 04, 2010)