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A. Sheu* (sheu@math.ku.edu), Department of Mathematics, University of Kansas, Lawrence, KS 66045-2142, and **N. Ciccoli**. *Covariant Poisson structures on complex Grassmannians*.

Motivated by the study of quantum complex Grassmannians and the quantization of coisotropic subgroups of a Poisson-Lie group via duality, we find that a family of covariant Poisson structures on complex Grassmannians can be obtained as quotients by concrete coisotropic subgroups, and we use this to study Poisson embeddings of some Poisson homogeneous spaces via the interaction between coisotropic subgroups. (Received August 30, 2005)