1024-22-248   **Sam Evens*** (`sevens@nd.edu`), Department of Mathematics, University of Notre Dame, Notre Dame, IN 46556, and **Jiang-Hua Lu**. *Poisson geometry of the Grothendieck resolution for a complex group.*

We construct a Poisson structure π on the Grothendieck resolution X of a complex semisimple group G. The natural map $m : X \to G$ is Poisson with respect to a Poisson structure π_0 on G such that closures of conjugacy classes are Poisson subvarieties. π_0 was first constructed by Alekseev and Malkin. We determine symplectic leaves on the Grothendieck resolution, and show that m resolves singularities of the Poisson structure π on G. (Received January 09, 2007)