1016-58-145 **Brian C. Hall** and **Jeffrey J. Mitchell***, Robert Morris University, Department of Mathematics, 6001 University Boulevard, Moon Township, PA 15108-1189. *The Segal-Bargmann transform for noncompact symmetric spaces.*

Previous work of B. Hall, later clarified by M. Stenzel, generalized the classical Segal-Bargmann transform to compact symmetric spaces. As noncompact symmetric spaces are dual to the compact symmetric spaces, it is reasonable to pursue a generalization of the Segal-Bargmann transform for these manifolds. This talk will describe the Segal-Bargmann transform for noncompact symmetric spaces of the complex type. (Received February 09, 2006)