1037-22-214   **Gestur Olafsson*** (`olafsson@math.lsu.edu`), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803, and **Henrik Schlichtkrull**. *The heat equation on Riemannian symmetric spaces and the Radon transform.*

Let G/K be a semisimple symmetric space of the noncompact type. We discuss the image of the Segal-Bargmann transform, or heat transform, on G/K. We give a description of the image in the space of holmorphic function on the crown using the normalized Radon transform. (Received February 03, 2008)