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Gestur Olafsson* (olafsson@math.lsu.edu), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70703. *Complex methods in harmonic analysis on symmetric spaces.*

We will discuss some recent results and ideas in harmonic analysis on symmetric spaces where the interplay between real and complex analysis plays an important role. As an example one can take the solution of the heat equation on Riemannian symmetric spaces, and the imbedding of series of induced representations into the space of square integrable functions on non-Riemannian symmetric spaces. (Received September 24, 2006)