

1110-42-197

**William Beckner\*** ([beckner@math.utexas.edu](mailto:beckner@math.utexas.edu)), Department of Mathematics, University of Texas at Austin, Austin, TX 78712. *Kunze-Stein Phenomena and Riesz Potentials.*

Sharp forms of Kunze-Stein phenomena on  $SL(2, \mathbb{R})$  are obtained by using symmetrization and Stein-Weiss potentials. Our methods extend to include the Lorentz groups and  $n$ -dimensional hyperbolic space through application of the Riesz-Sobolev rearrangement inequality. (Received February 20, 2015)