

© 2009 Heldermann Verlag
Journal of Lie Theory 19 (2009) 725–734

S. Hassani

University of Tunis El Manar, Faculty of Sciences, Dept. of Mathematics, 2092 Tunis, Tunisia
sallem.h@gmail.com

S. Mustapha

Institut Mathématiques de Jussieu, 175 Rue de Chevaleret, 75013 Paris, France
sam@math.jussieu.fr

M. Sifi

University of Tunis El Manar, Faculty of Sciences, Dept. of Mathematics, 2092 Tunis, Tunisia
mohamed.sifi@fst.rnu.tn

Riesz Potentials and Fractional Maximal Function for the Dunkl Transform

We investigate the $L^p \rightarrow L^q$ boundedness properties of the Riesz potentials I_α^κ and the related fractional maximal function $M_{\kappa,\alpha}$ associated to the Dunkl transform.

Keywords: Riesz potentials, Fractional maximal function.

MSC: 33C52; 43A32, 33C80, 22E30