

Lipschitz Conditions in Damek-Ricci Spaces

Radouan Daher

Hassan II University
Morocco
rjdaher024@gmail.com

Joint work with: Salah El Ouadih

In this talk we extend classical Titchmarsh theorems on the Fourier-Helgason transform of Lipschitz functions to the setting of L^p -space on Damek-Ricci spaces. As consequences, quantitative Riemann-Lebesgue estimates are obtained and an integrability result for the Fourier-Helgason transform is developed extending ideas used by Titchmarsh in the one dimensional setting.