

Seminar 2023

Math

Spherical maximal function on two step nilpotent Lie groups

유재현

KIAS

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장소 과학관 262호

Abstract: We study the boundedness of the Nevo-Thangavelu maximal function on two step stratified Lie groups. The maximal function is originally introduced by Nevo and Thangavelu in the setting of the Heisenberg group and deals with noncommutative convolutions associated to measures on spheres lying on the stratum of the stratified group. We drop the nondegeneracy condition in the known results on M`etivier groups and prove the sharp boundedness result in dimensions greater than 2.



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