

S. Campos

(1) CIUNSa, Fac. Cs. Exactas, Univ. Nacional de Salta, Argentina
(2) CIEM - Univ. Nacional de Córdoba, Argentina
silvinacampos@exa.unsa.edu.ar

J. García

(1) CIUNSa, Fac. Cs. Exactas, Univ. Nacional de Salta, Argentina
(2) CIEM - Univ. Nacional de Córdoba, Argentina
joseigarcia@exa.unsa.edu.ar

L. Saal

(1) CIUNSa, Fac. Cs. Exactas, Univ. Nacional de Salta, Argentina
(2) CIEM - Univ. Nacional de Córdoba, Argentina
saal@mate.uncor.edu.ar

Generalized Gelfand Pairs Attached to some Extensions of Heisenberg Groups

We show new examples of generalized Gelfand pairs of the form (K, N) by considering a family of 3-step nilpotent Lie groups $N := S \ltimes H$, where H is the $(2n + 1)$ dimensional Heisenberg group, S is the subgroup of $(n \times n)$ symmetric matrices and K is a non compact, unimodular subgroup of automorphism of N . Also, we determine the automorphism group of N .

Keywords: Generalized Gelfand pairs, metaplectic representation.

MSC: 43A80; 22E27.