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I. Hernández

Centro de Investigacion en Matematicas, Apdo. Postal 402, C.P. 36000 Guanajuato, Gto.,
Mexico
isabel@cimat.mx

G. Salgado

Centro de Investigacion en Matematicas, Apdo. Postal 402, C.P. 36000 Guanajuato, Gto.,
Mexico
salgado@cimat.mx

O. A. Sánchez-Valenzuela

Centro de Investigacion en Matematicas, Apdo. Postal 402, C.P. 36000 Guanajuato, Gto.,
Mexico
adolfo@cimat.mx

Lie Superalgebras Based on a 3-Dimensional Real or Complex Lie Algebra

We give a complete classification of real and complex Lie superalgebras $\mathfrak{g}_0 \oplus \mathfrak{g}_1$, for which \mathfrak{g}_0 is a 3-dimensional Lie algebra, and \mathfrak{g}_1 is \mathfrak{g}_0 itself under the adjoint representation.

Keywords: Lie superalgebras, adjoint representation, symmetric equivariant maps.

MSC: 17B70, 81R05; 15A21, 15A63, 17B81