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“A new equivalence between super Harish-Chandra pairs and Lie supergroups”

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ABSTRACT

It is known that there exists a natural functor $\Phi$ from Lie supergroups to super Harish-Chandra pairs. A functor going backwards, that associates a Lie supergroup with each super Harish-Chandra pair, yielding an equivalence of categories, was found by Koszul [19], and later generalized by several authors.

In this paper, we provide two new backwards equivalences, i.e. two different functors $\Psi^o$ and $\Psi^e$ that construct a Lie supergroup (thought of as a special group-valued functor) out of a given super Harish-Chandra pair, so that both $\Psi^o$ and $\Psi^e$ are quasi-inverse to the functor $\Phi$.

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REFERENCES


