Imbalance of the O(3) theory and the N=1 model

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Abstract

In this paper, we study the O(3) theory and the N=1 model with the O(3) symmetry group. The analysis of the O(3) theory is performed by using the modified Poincar\'e group and the modified K\"ahler group. We find that both of them are equivalent to the O(3) theory with the O(3) symmetry group.