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Stratonovich-Weyl Correspondence for the Generalized Poincaré Group

We construct a Stratonovich-Weyl correspondence for each unitary irreducible representation of the generalized Poincaré group $\mathbb{R}^{n+1} \rtimes SO_0(n,1)$ associated with an integral coadjoint orbit with little group $SO(n)$, generalizing some results of J. F. Cariñena, J. M. Gracia-Bondìa and J. C. Vàrilly [J. Phys. A: Math. Gen. 23 (1990) 901–933].