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Parametrization of Coadjoint Orbits of $\mathbb{R}^n \rtimes \mathbb{R}$

We give an algorithm for an explicit construction of quantizable canonical coordinates on the coadjoint orbits across entire specific layers and an explicit description for the cross-section of the type I Lie group $\mathbb{R}^n \rtimes \mathbb{R}$.

Keywords: Coadjoint orbits, parametrization.

MSC: 22E25, 53D50