On the Heisenberg Invariance and the Elliptic Poisson Tensors

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Résumé en anglais: We study different algebraic and geometric properties of Heisenberg invariant Poisson polynomial quadratic algebras. We show that these algebras are unimodular. The elliptic Sklyanin–Odesskii–Feigin Poisson algebras $q_{n,k}(\mathcal{E})$ are the main important example. We classify all quadratic $H$-invariant Poisson tensors on $\mathbb{C}^n$ with $n \leq 6$ and show that for $n \leq 5$ they coincide with the elliptic Sklyanin–Odesskii–Feigin Poisson algebras or with their certain degenerations.

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