

Nonrelativistic Contraction of Canonically Deformed Super-Poincaré Hopf Algebra

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Abstract. We consider the nonrelativistic contraction of canonically deformed $\mathcal{N} = 1$ super-Poincaré Hopf algebra. In such a way we get the new quantum supergroup - canonically twisted super-Galilei Hopf algebra equipped with the Clifford-like spinorial sector of corresponding superspace. Besides, we also propose the new Lie-algebraic twist deformation of super-Galilei algebra leading to classical time and quantum space as well as to Clifford-like fermionic part of twisted $\mathcal{N} = 1$ superspace.

Keywords. Nonrelativistic contraction of twisted super-Poincaré Hopf algebra, nonrelativistic twist-deformed superspace.

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