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SO(d,d;Z) Transformation Property for Gauge Fluxes and Ramond-Ramond Fields in Noncommutative Geometry

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Abstract: In this paper we study the spinor constructions of gauge fluxes and Ramond-Ramond fields on noncommutative tori T^d up to d=6. In which the spinor and conjugate spinor are distinguished and dual bases are also introduced. So that we can express the Chern-Simons Lagrangian in toroidal compactification as a product of spinors.

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Key words: SO(d,d;Z) spinor, noncommutative geometry

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