

## Canonical Differential Calculi for Finitely Generated Abelian Groups and Their Fermionic Representations

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Abstract: Canonical differential calculi are defined for finitely generated Abelian groups with involutions existing consistently. Two such the canonical calculi are presented. Fermionic representations for canonical calculi are defined based on quantized calculi. Fermionic representations for aforementioned two canonical calculi are searched out.

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Key words: finitely generated Abelian group, canonical differential calculus, involution, quantized calculus, fermionic representation

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