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Physics > General Physics

Covariant Mickelsson-Faddeev extensions of gauge and diffeomorphism algebras

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(Submitted on 15 Jan 2012)

We construct new extensions of current and diffeomorphism algebras in N>3 dimensions, which are related to the Mickelsson-Faddeev algebra. The result is compatible with Dzhumadil'daev's classification of diffeomorphism cocycles. We also construct an extension of the current algebra in N>=5 dimensions which depends on the fourth Casimir operator.

Subjects: **General Physics (physics.gen-ph)**; Mathematical Physics (math-ph)

Cite as: **arXiv:1205.2353 [physics.gen-ph]**

(or **arXiv:1205.2353v1 [physics.gen-ph]** for this version)

Submission history

From: Thomas Larsson [view email]

[v1] Sun, 15 Jan 2012 05:19:44 GMT (9kb)

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