

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Yiannis Loizides</li><li>Eckhard Meinrenken</li><li>Yanli Song</li></ul>	authors	<ul style="list-style-type: none"><li>Yiannis Loizides</li><li>Eckhard Meinrenken</li><li>Yanli Song</li></ul>	DUPLICATES	11
	title	Spinor modules for Hamiltonian loop group spaces	title	Spinor modules for Hamiltonian loop group spaces		
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	doi	10.4310/jsg.2020.v18.n3.a10	doi			
	urls	<ul style="list-style-type: none"><li>https://web.archive.org/web/20220304090034/https://www.intlpress.com/site/pub/files/_fulltext/journals/jsg/2020/0018/0003/JSG-2020-0018-0003-a010.pdf</li></ul>	urls	<ul style="list-style-type: none"><li>https://web.archive.org/web/20200907153507/https://arxiv.org/pdf/1706.07493v1.pdf</li></ul>		
	id	id-7628234772258552652	id	id7081576499873372920		
	abstract	Let $LG$ be the loop group of a compact, connected Lie group $G$ . We show that the tangent bundle of any proper Hamiltonian $LG$ -space $M$ has a natural completion $TM$ to a strongly symplectic $LG$ -equivariant vector bundle. This bundle admits an invariant compatible complex structure within a natural polarization class, defining an $LG$ -equivariant spinor bundle $S_{TM}$ , which one may regard as the $Spin_c$ -structure of $M$ . We describe two procedures for obtaining a finite-dimensional version of this spinor module. In one approach, we construct from $S_{TM}$ a twisted $Spin_c$ -structure for the quasi-Hamiltonian $G$ -space associated to $M$ . In the second approach, we describe an 'abelianization procedure', passing to a finite-dimensional $T\hat{S}^1 LG$ -invariant submanifold of $M$ , and we show how to construct an equivariant $Spin_c$ -structure on that submanifold.	abstract	Let $LG$ be the loop group of a compact, connected Lie group $G$ . We show that the tangent bundle of any proper Hamiltonian $LG$ -space $M$ has a natural completion $TM$ to a strongly symplectic $LG$ -equivariant vector bundle. This bundle admits an invariant compatible complex structure within a natural polarization class, defining an $LG$ -equivariant spinor bundle $S_{TM}$ , which one may regard as the $Spin_c$ -structure of $M$ . We describe two procedures for obtaining a finite-dimensional version of this spinor module. In one approach, we construct from $S_{TM}$ a twisted $Spin_c$ -structure for the quasi-Hamiltonian $G$ -space associated to $M$ . In the second approach, we describe an 'abelianization procedure', passing to a finite-dimensional $T\hat{S}^1 LG$ -invariant submanifold of $M$ , and we show how to construct an equivariant $Spin_c$ -structure on that submanifold.		
	versions		versions			