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Spinor bundles for Hamiltonian loop group spaces

Let G be a compact Lie group, and N a Hamiltonian LG space, with proper moment map.Associated to these data is a finite dimensional quasi-hamiltonian G-space M with G-valued moment map. We will give a geometric construction of a canonical "twisted spin-c structure" on M. This is based on joint work with Yiannis Loizides and Yanli Song.