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An analogue of Kostant's formula for Lie group-valued moment maps

Let $P \rightarrow M$ be a prequantum circle bundle with connection over a symplectic manifold M . Let G be a compact Lie group. Given a Hamiltonian G -action on M , Kostant gave a formula for lifting the infinitesimal \mathfrak{g} -action on M to one on P that preserves the connection. This talk presents an analogue of Kostant's formula in the setting of quasi-Hamiltonian G -spaces with G -valued moment map. This is joint work with Jennifer Vaughan.