Let $G$ be connected reductive algebraic group over $\mathbb{C}$, fix a Borel subgroup $B$ of $G$ and a maximal torus $T$ in $B$, and let $U$ be the unipotent radical of $B$. Let $Y$ be an affine toric variety for $T$. Alexeev and Brion introduced a moduli scheme $M_Y$ which classifies affine (spherical) $G$-varieties $X$ equipped with a $T$-equivariant isomorphism $X//U \to Y$, where $X//U = \text{Spec}(\mathbb{C}[X]^U)$.

S. Jansou, P. Bravi and S. Cupit-Foutou described the first examples of $M_Y$. We studied the case where $Y = W//U$ with $W$ a spherical $G$-module and $G$ of type $A$ (a spherical $G$-module $W$ is a representation $W$ of $G$ which is spherical as a $G$-variety, that is, which contains a dense $B$-orbit). (Received September 16, 2008)