

# Marsden-Weinstein reduction of some type of kahlerian manifolds

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## **Abstract**

An  $FL$ -manifold  $(M, \omega, L)$  is a symplectic manifold  $(M, \omega)$  equipped with a lagrangian foliation  $L$ . The concern of the talk is the Marsden-Weinstein reduction of  $FL$ -structures in some homogeneous symplectic manifolds. It will be pointed out some relevant relationships between this reduction problem and a conjecture of C. Benson and C. Gordon.