

On orbifold criteria for singular symplectic toric quotients We present examples of four-dimensional symplectic quotients of unitary representations of the circle, that can not be \mathbb{Z} -graded regularly symplectomorphic to a finite quotient of U_2 , while the corresponding GIT-quotients are smooth. The notion of \mathbb{Z} -graded regular symplectomorphism will be explained in the talk.