

1068-53-282

Zuoqin Wang* (wangzuoq@umich.edu), 530 Church Street, Ann Arbor, MI 48109. *Stability functions for Kaehler quotients with applications.*

We are going to study the spectral properties of Kaehler manifolds in the context of Kaehler quantization. The main tool we are going to use is the “stability function”, which roughly speaking is a function that compares quantum states before reduction with quantum states after reduction. We will also give some applications to toric geometry. This is a joint work with Victor Guillemin and Daniel Burns. (Received January 19, 2011)