Bohr-Sommerfeld quantization of b-symplectic toric manifolds

Pau Mir
UPC

Abstract:

We define the Bohr-Sommerfeld quantization via T-modules for a b-symplectic toric manifold and show that it coincides with the formal geometric quantization of Guillemin, Miranda and Weitsman. In particular, we prove that its dimension is given by a signed count of the integral points in the moment polytope of the toric action on the manifold.