1125-58-1001   **Victor Guillemin**, **Eva Miranda** and **Jonathan Weitsman*** (`j.weitsman@neu.edu`). *On geometric quantization of b-symplectic manifolds.*

We study a notion of pre-quantization for b-symplectic manifolds. We use it to construct a formal geometric quantization of b-symplectic manifolds equipped with Hamiltonian torus actions with nonzero modular weight. We show that these quantizations are finite dimensional T-modules. (Received September 13, 2016)