1012-14-68   **Vasiliy A Dolgushev*** (`vald@math.northwestern.edu`), Mathematics Department, Northwestern Univ., 2033 Sheridan Rd., Office B2, Evanston, IL 60208. *Hochschild cohomology versus orbifold cohomology.*

We prove the additive version of the conjecture proposed in 2002 by Ginzburg and Kaledin. This conjecture states that if X/G is an orbifold modeled on a quotient of a smooth affine symplectic variety X (over C) by a finite group $G \subset Aut(X)$ and A is a G-stable quantum algebra of functions on X then the graded vector space of the Hochschild cohomology of the algebra A^G of invariants is isomorphic to the graded vector space of the Chen-Ruan (stringy) cohomology of the orbifold X/G. This talk is based on joint paper math.QA/0410562 with P. Etingof. (Received September 05, 2005)