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Given a vector bundle on a Kähler manifold and a characteristic class, T. Coates and A. Givental studied Gromov-Witten invariants "twisted" by these data. They proved a "quantum Riemann-Roch theorem" which relates the twisted invariants with the untwisted ones. In this talk we will discuss a generalization of their results to orbifold target spaces. (Received September 18, 2005)