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A Stringy Product for Twisted Orbifold K-theory

Given an orbifold X with inertia orbifold LX , we construct a product for the twisted K-theory of LX which extends the orbifold cohomology product of Chen and Ruan. The twisting arises from the “inverse transgression” of elements in $H^4(BX, \mathbb{Z})$. This is joint work with Y. Ruan and B. Zhang.