

TWISTS OVER ÉTALE GROUPOIDS AND TWISTED VECTOR BUNDLES

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Given a twist over an étale groupoid, one can construct an associated C^* -algebra which carries a good deal of geometric and physical meaning; for example, the K -theory group of this C^* -algebra classifies D -brane charges in string theory. Twisted vector bundles, when they exist, give rise to particularly important elements in this K -theory group. In this talk, we will present joint work with C. Farsi in which we use the classifying space of the étale groupoid to construct twisted vector bundles, under some mild hypotheses on the twist and the classifying space.