

Localized equivariant twisted cohomology

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We will discuss our proposal for establishing a de Rham model of equivariant twisted K-theory using machinery from noncommutative geometry.

More precisely, for a given $\alpha \in H^3_G(M, \mathbb{Z})$, where G is a compact Lie group acting on a compact manifold M , we introduce a notion of localized equivariant twisted cohomology and discuss its relation with twisted equivariant K-theory.

This is a joint work with Jean-Louis Tu.