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Characteristic classes for trivialized flat U_n bundle

In this talk we will describe a way to define characteristic classes for trivialized flat U_n bundle using Hopf-cyclic theory. It turns out that many of these classes extend to K-theory of certain C^*-algebras. This allows one to define a set of characteristic numbers, generalizing the relative eta invariant, which are homotopy invariant.

This is a joint work with Jerry Kaminker.