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Title : Some examples of foliation  $C^*$ -algebras and their relation with Connes' cyclic cohomology.

Abstract : This work is inspired from Connes' Non Commutative Geometry and its applications to foliation theory. We discuss the transverse fundamental class, which is a densely defined cyclic  $n$ -cocycle associated with codimension  $n$  foliations. The transverse fundamental class induces a well-defined map from the  $K$ -theory of the foliation  $C^*$ -algebra to the complex numbers.

We compute this map explicitly in the case of suspension flows on torus bundles over the circle.