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The Godbillon-Vey Invariant in *KK*-theory with Real Coefficients

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The Godbillon-Vey invariant is a 3-degree cohomology class associated with a foliation of codimension 1 of a closed manifold M.

This classical invariant has been shown to be closely related to measure theory and dynamics of the foliation. It also plays a crucial role in index theory, as proved by Alain Connes.

We construct a natural class in bivariant KK-theory with real coefficients representing the Godbillon-Vey invariant. We shall explain these construction, see how the Godbillon-Vey invariant deals with a (densely defined) infinite trace, and the relation to the index theorem for measured foliations.

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