

A Baum-Connes conjecture for singular foliations

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A large class of manifolds M endowed with a Stefan-Sussmann singular foliation, admit a decomposition which records the “height” of the singularities involved. These are the manifolds whose singular foliation is defined from a Lie groupoid, and the singularity height can be formulated using dimension. Using this decomposition we can formulate an assembly map for singular foliations as such, which is an isomorphism under suitable amenability conditions. The assembly map allows to calculate the K-theory of the foliation C^* -algebra. This is joint work with Georges Skandalis.

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