

Factorization of the Dirac Operator on Foliations

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On a foliation induced by a Riemannian submersion, J. Kaad and W. D. van Suijlekom constructed two natural operators whose product is the Dirac operator, up to a bounded curvature term. This result gives a geometric outlook on the work of A. Connes, M. Hilsum, and G. Skandalis about wrong-way functoriality in bounded KK-theory, where this curvature term remained implicit.

In this talk, using recent developments in unbounded KK-theory, we adapt their results to extend this factorization to foliations.

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