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A Hilbert bundle description of differential K-theory

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We give an infinite-dimensional description of the differential K-theory of a manifold. The construction uses superconnections on Hilbert bundles and eta forms. We describe the pushforward of a finite-dimensional cycle under a proper submersion with a Riemannian structure. Finally, we give a model for twisted differential K-theory. This is joint work with Alexander Gorokhovsky

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