Spectral Geometries for Some Diffeologies

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Diffeologies, introduced by JM Souriau, are a vast generalization of smooth manifolds that, from the point of view of category theory, is much better behaved. Not much is known on the possible ways to describe such spaces in the language of spectral geometry and it is the purpose of this quite preliminary talk to explore some of the problems involved in such study. We will also see how categories of spectral triples might be of help in these matters and more. This is a joint work with F.Germ and R.Conti.