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Modified bimetric-like gravity from spectral geometry.

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The tools of spectral geometry lead to the derivation of the action functionals both for gauge theories and gravity. The simplest, mildly noncommutative models with a product geometry give the standard Yang-Mills-Higgs models and the General Relativity action with a cosmological constant. An interesting situation occurs when the geometry is not of the product type, thus allowing the metric to be dynamical in the discrete degrees of freedom. The resulting model resembles bimetric gravity, and demonstrates stability for a class of typical cosmological solutions. Based on a joint work with Arkadiusz Bochniak.

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