

Twisted spectral triples and local index formula

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The basic template for a space in noncommutative geometry is encoded in the notion of spectral triple. This was recently adapted, in joint work with A. Connes, to include certain type III spaces, such as those arising from foliations or from the geometry of certain arithmetic spaces. After giving examples of this nature, we will present a new local index formula, which computes the characteristic classes of twisted spectral triples modeled on the geometry of conformal foliations with locally constant transverse conformal factor.