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Models of products of noncommutative geometries.

Models of noncommutative geometry that are products of manifolds with discrete spaces, which have Dirac operators that are not of product type, lead to interesting physical theories in the gravity and particle sectors. The gravity construction appears to be similar to the bimetric gravity modifications whereas the nonproduct structure applied to the description of the Standard Model leads to no fermion doubling with explicit CP breaking and additional topological terms.