

Relative L -theory and cyclic homology

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Generalizing work of Weiss and Williams on visible hyperquadratic L -theory of spaces we give a formula for the L -theory of a Poincaré category relative to any base Poincaré structure with the same duality. When the base structure is the quadratic one, we relate the resulting quotient map to the cyclic trace map in the context of Poincaré categories. This is part of work in progress with Thomas Nikolaus and Jay Shah.