

CYCLIC HOMOLOGY AND RIGID COHOMOLOGY

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This is a report on joint work with Joachim Cuntz, Ralf Meyer and Georg Tamme.

Let V be a complete discrete valuation ring with residue field k . We develop a version of periodic cyclic homology for bornological V -algebras that is defined for not necessarily commutative algebras. For a commutative k -algebra, it recovers Berthelot's rigid cohomology.