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Cohomology of partial smash products

We define the partial group cohomology as the right derived functor of the functor of partial invariants, we relate this cohomology with partial derivations and with the partial augmentation ideal. Finally we show that there exists a Grothendieck spectral sequence relating cohomology of partial smash algebras with partial group cohomology and algebra cohomology.

Joint work with Edson Ribeiro Alvares and Marcelo Muniz Alves.