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Realizing unstable coalgebras

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(Joint with G. Raptis and M. Stelzer)

Unstable coalgebras form the natural target category for mod p singular homology of spaces. We construct a tower of spaces converging to the moduli space of realizations of an unstable coalgebra C ie spaces whose mod p homology is isomorphic to C. As a consequence we can reformulate, unify and generalize associated obstruction theories by Harper, Bousfield and Blanc. We adapt the approach taken by Blanc/Dwyer/Goerss for realizing \Pi-algebras.

One long term goal is to obtain an analogous deformation theory for mod p coefficients as in the rational case given by Schlessinger/Stasheff.

Mots Clés / Keywords

Realization; unstable coalgebra; moduli space

Auteur principal: Dr BIEDERMANN, Georg (Nantes)

Orateur: Dr BIEDERMANN, Georg (Nantes)

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