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Cohomologically Strongly Infinite Dimensional Compacta

Given a coefficient ring R we define a cohomological version of strongly infinite dimensional compacta (R -SID). Compacta which are not R -SID are called cohomologically weakly infinite dimensional (R -WID). We show the R -acyclicity of the complement $Q \setminus X$ in the Hilbert cube Q of a R -WID compactum X . As a corollary we obtain the R -acyclicity of the complement results when

- (a) X is weakly infinite dimensional;
- (b) X has finite cohomological dimension with respect to R .

This is a joint work with A. Amarasinghe