

On strong homology, phantom maps, and the same n -type problems

Daewoong Lee

Dartmouth College and Chonbuk National University Republic of Korea

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Abstract

In this talk, we discuss some basic notions in algebraic topology such as singular (co)homology, categories and functors. We also describe some fundamental results about the strong (co)homology groups, derived limits of various inverse systems, and phantom maps. Moreover, we construct the same n -type structure for the suspension of the infinite complex projective space, and introduce the same n -type problems in homotopy theory.