GRADUATE SEMINAR

Arnaud Ngopnang Ngompé

The Hurewicz model structure on simplicial *R*-modules

PhD Student supervised by Prof. Martin Frankland and Prof. Don Stanley

September 19, 2023 11:30 AM ED 438

Abstract:

By a theorem of Christensen and Hovey, the category of non-negatively graded chain complexes has a model structure, called the h-model structure or Hurewicz model structure, where the weak equivalences are the chain homotopy equivalences. The Dold–Kan correspondence induces a model structure on the category of simplicial modules. In this talk, we give a description of the two model categories and some of their properties, notably the fact that both are monoidal.



