

1) Title: An Introduction to Model Categories

As the title suggests, in this talk an intensive introduction to abstract homotopy theory and Quillen model categories will be given. In fact, various attempts to reach an axiomatic approach toward homotopy from its geometrical intuition will be narrated by an emphasis on Quillen's school.

2) Title: Two Model Structures on the Category of Differential Graded Modules

The existence of so-called projective and injective model structures on the category of bounded chain complexes is a well known fact. By the same token, the existence of such structures on the category of DG-Modules was a folklore though there were not a proof and explicit descriptions of role playing objects. This talk is aimed to provide an accessible description of these two model structures and the way that filled gaps.