

We will continue on Thursday, **April 11, in M5 at 1pm** by the talk

Simon Henry

Model structure from small objects and left determined model structures

Abstract:

I'll present a way to characterize combinatorial weak model structures and left semi-model structures on a presentable category purely in terms of the cofibrations and trivial cofibrations between λ -presentable objects (for some λ).

As an application I'll present a generalization of Cisinski's theory of localizer to any locally presentable category instead of a topos. In particular it (partially) answers the question posed by Rosicky and Tholen on the existence of left determined model structures.

If times permit (but probably not) I'll explain how this also allows to construct a "(pseudo) model category of model categories".