

Další seminář z algebry se koná **11.4.2019 od 13.00 v posluchárně M5.**

## **Simon Henry**

Model structure from small objects and left determined model structures

### Abstrakt:

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  $\lambda$ -presentable objects (for some  $\lambda$ ).

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".