

# Logikseminariet Stockholm–Uppsala

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On extensional categories of set-like objects in type theory

When formalising mathematics in type theory, sets are usually replaced by setoids, that is, by types-with-equivalence-relations. It is then natural to consider the category of setoids, and what structure it carries. Some problems appear: particularly, if we wish to regard propositionally equivalent equivalence relations as equal, then it is well known that although the category has pullbacks, it does not have given pullbacks (the pullback object constructed may be different for two sets of data that are considered equal). We will consider some alternative set-like constructions, hoping to find a category where these problems do not occur.

Onsdag kl. 10.30–12.15,  
sal 11167, Ångströmlaboratoriet, Uppsala.

<http://www.math.su.se/~jesper/seminarier/>