

# Homotopy Models of Intensional Type Theory (Abstract)

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July 2006

We show how to provide a semantics for the identity type of intensional Martin-Löf type theory using the machinery of abstract homotopy theory. One specific consequence is that the identity type is soundly modelled in any Quillen model category. We then turn to the study of cocategory and (strict) interval objects and isolate two conditions under which an interval will model intensional identity types.