

LOGIKSEMINARIET STOCKHOLM–UPPSALA

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Formalized Limits and Colimits of Setoids

A setoid is a set equipped with an equivalence relation, and functions between setoids are required to preserve the equivalence relations. In other words: setoids are what Bishop called "sets".

We prove in Type Theory that the category of setoids is complete and cocomplete. This involves defining diagrams of setoids, and their limits and colimits. In particular, we get products and disjoint unions of setoid-indexed families of setoids.

The work is a generalization of an exercise from Per Martin-Löf's course in Type Theory, Spring 2003.

Onsdag 17/9 kl 10.00–11.45, sal 16, hus 5,
Matematiska institutionen, Kräftriket,
Stockholms universitet.

Logikseminariets hemsida:
<http://www.math.su.se/matematik/forskning/logik/>