Logikseminariet Stockholm–Uppsala

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Sheaves of setoids

One of the central notions in the development of constructive mathematics in Martin-Löf type theory is that of a setoid. Setoids are types equipped with an equivalence relations, and can be seen as the objects of a category with many good properties. The aim of the seminar is to show how this category supports a contruction of sheaves, analogous to the one available for the category of classical sets. This will be done using ideas of Algebraic Set Theory, as introduced by Joyal and Moerdijk, and extending previous work of Moerdijk, Palmgren, and van den Berg. This is joint work with Steve Awodey, Peter Lumsdaine, and Michael Warren, described in the preprint ArXiv:0711.1529v2.

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sal 11167, Ångströmlaboratoriet, Uppsala.

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