

Logikseminariet Stockholm–Uppsala

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Dependent Type Theory with Parametric First-Order Data
Types and Pattern-Matching

We present a variation of Martin-Löf's logical framework with $\beta\iota$ -equality, extended with first-order parametric data types and constants defined recursively with pattern-matching. We use the *Size-Change Principle for Program Termination* (C.S. Lee, N.D. Jones, A. Ben-Amram 2001) to justify the recursive definitions. This approach enables us to define new constants in a straight-forward manner. Our contribution is a proof of normalization for the proposed system.

Onsdag 10 maj kl. 10.30–12.15,
sal 3513, MIC,
Polacksbacken, Uppsala.

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