

Logikseminariet Stockholm–Uppsala

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Consistency of Heyting Arithmetic in Natural Deduction

A proof of the consistency of Heyting arithmetic in natural deduction is presented. The proof is based on a normalization proof of W. A. Howard (1970) and consists of a reduction procedure for derivations of falsity and a vector assignment. The expressions of the vectors can be interpreted as ordinals less than ϵ_0 , which shows that the reduction procedure terminates.

Onsdag 30 januari kl. 10.30–12.15,
sal 64119, Ångströmlaboratoriet, Uppsala.

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