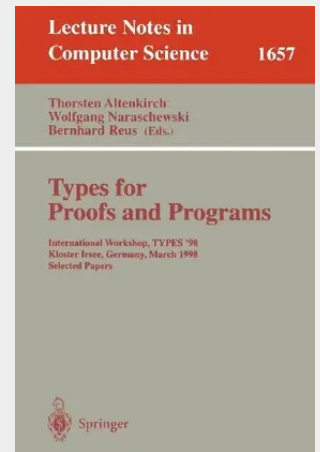


Types for Proofs and Programs

International Workshop, TYPES '98, Kloster Irsee, Germany, March 27-31, 1998,
Selected Papers

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GiovanniSambin, SilviaGebellato On Relating TypeTheories and Set Theories PeterAczel
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man. ac. uk Introduction 1 The original motivation for the work described in this paper
was to det- minetheprooftheoreticstrengthofthetypetheoriesimplementedintheproof
developmentsystemsLegoandCoq,[12,4]. Thesetypetheoriescombinetheim- 2
predicativetype of propositions, from the calculus of constructions,[5], with
theinductivetypesandhierarchyof typeuniversesof Martin-L?ofsconstructive typetheory,[13].
Intuitivelythereisaneasywaytodetermineanupperboundontheprooftheoreticstrength.
Thisistousethe'obvious'types-as-sets- terpretation of these type theories in a strong
enough classical axiomatic set theory.

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