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                       with streams in Coq a case study: The Sieve of Eratosthenes -- The Alf
                       proof editor and its proof engine -- Encoding Z-style Schemas in type
                       theory -- The expressive power of Structural Operational Semantics
                       with explicit assumptions -- Developing certified programs in the
                       system Coq the program tactic -- Closure under alpha-conversion --
                       Machine Deduction -- Type theory and the informal language of
                       mathematics -- Semantics for abstract clauses.

Sommario/riassunto   This volume contains thoroughly refereed and revised full papers selected from the presentations at the first workshop held under the auspices of the ESPRIT Basic Research Action 6453 Types for Proofs and Programs in Nijmegen, The Netherlands, in May 1993. As the whole ESPRIT BRA 6453, this volume is devoted to the theoretical foundations, design and applications of systems for theory development. Such systems help in designing mathematical axiomatisation, performing computer-aided logical reasoning, and managing databases of mathematical facts; they are also known as proof assistants or proof checkers.