

Logic Colloquium '03

*Proceedings of the Annual European Summer Meeting of
the Association for Symbolic Logic, held in Helsinki, Finland,
August 14-20, 2003.*

Edited by

Viggo Stoltenberg-Hansen

Department of Mathematics

Uppsala University

Jouko Väänänen

Department of Mathematics and Statistics

University of Helsinki



ASSOCIATION FOR SYMBOLIC LOGIC

A K Peters, Ltd. • Wellesley, Massachusetts

TABLE OF CONTENTS

Introduction	vii
--------------------	-----

TUTORIAL

Michael Benedikt Generalizing finite model theory	3
--	---

RESEARCH ARTICLES

Arthur W. Apter Indestructibility and strong compactness	27
Charles M. Boykin and Steve Jackson Some applications of regular markers	38
Matthew Foreman Has the continuum hypothesis been settled?	56
Jean-Yves Girard Geometry of interaction IV: the feedback equation	76
Tapani Hyttinen On local modularity in homogeneous structures	118
Michael C. Laskowski Descriptive set theory and uncountable model theory	133
Larisa Maksimova Decidable properties of logical calculi and of varieties of algebras ...	146
Ralph Matthes Stabilization — an alternative to double-negation translation for classical natural deduction	167
Dag Normann Definability and reducibility in higher types over the reals	200

Erik Palmgren	
Predicativity problems in point-free topology	221
Wai Yan Pong	
Rank inequalities in the theory of differentially closed fields	232
Pavel Pudlák	
Consistency and games — in search of new combinatorial principles	244
Michael Rathjen	
Realizability for constructive Zermelo-Fraenkel set theory	282
Saharon Shelah	
On long EF-equivalence in non-isomorphic models	315
Richard A. Shore and Theodore A. Slaman	
The $\forall\exists$ theory of $\mathcal{D}(\leq, \vee,')$ is undecidable	326
M. C. Stanley	
Cocovering and set forcing	345
J. V. Tucker and J. I. Zucker	
Abstract versus concrete computability: the case of countable algebras	377