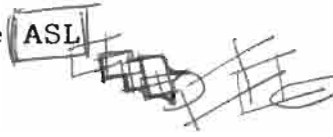


LOGIC COLLOQUIUM '82

and

1982 European Summer Meeting of the (ASL)

(Florence, August 23-28, 1982)



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SCHEDULE

MONDAY, AUGUST 23

- 9:30 a.m.-10:30 a.m. - ROOM 1 - D. SCOTT: "Lambda-calculus and Category theory I"
- 11:00 a.m.-12:00 a.m. - ROOM 1 - A. LACHLAN: "Open problems in the theory of homogeneous structures"
- 12:30 a.m. - LUNCH
- 2:30 p.m.- 3:30 p.m. - ROOM 1 - C. SMORINSKI: "I Lecture on Models of Peano Arithmetic"
- 3:40 p.m.- 4:40 p.m. - ROOM 1 - J. BALDWIN: "Strong saturation and the foundations of stability theory"
- 5:00 p.m.- 5:20 p.m. - ROOM 1 - M. PREST: "Model theory and representation of Artinian Rings"
- 5:20 p.m.- 5:40 p.m. - ROOM 2 - M. EYTAN: "ADJ semantics as models"
- 5:20 p.m.- 5:40 p.m. - ROOM 1 - S. THOMAS: "The classification of the stable simple locally finite groups"
- ROOM 2 - G. ROSOLINI: "About frames and filters"
- 5:40 p.m.- 6:00 p.m. - ROOM 1 - D. SARACINO - C. WOOD: "Finitely generic abelian lattice ordered groups"
- ROOM 2 - A. OBTULOWICZ: "The logic of categories of partial functions and recursiveness"
- 6:00 p.m.- 6:20 p.m. - ROOM 1 - F. POINT: "Quantifier elimination in projectable L-groups"
- ROOM 2 - A. LABELLA - A. PETTOROSSO: "A first step for analyzing the semantics of parallelism in computations using a categorial approach"
- 7:30 p.m. - DINNER

THUESDAY, AUGUST 24

- 9:00 a.m.-10:00 a.m. - ROOM 1 - D. SCOTT: "Lambda-calculus and Category theory II"
- 10:10 a.m.-11:10 a.m. - ROOM 1 - S. SHELAH
- 11:30 a.m.-12:30 a.m. - ROOM 1 - H. BARENDREGT: "Lambda-calculus and its models"
- 12:30 a.m. - LUNCH
- 2:30 p.m.- 3:30 p.m. - ROOM 1 - C. SMORINSKI: "II Lecture on Models of Peano arithmetic"
- 3:40 p.m.- 4:40 p.m. - ROOM 1 - GRAYSON

- 5:00 p.m.- 5:20 p.m. - ROOM 1 - H.B. CURRY - R. HINDLEY - J.P. SEL-
DIN: "Beta strong reduction in com-
binatory logic"
ROOM 2 - J. OIKKONEN: "Regularity of inter-
nal weak solutions of partial diffe
rential equations"
ROOM 3 - J.M. FONT: "Intuitionist implica-
tion in some modal logic of type S_4 "
- 5:20 p.m.- 5:40 p.m. - ROOM 1 - J.W. KLOP: "Extending partial combi
natory algebras"
ROOM 2 - Z. MIJAJLOVIC: "Modeltheoretic pro-
perties of Parovicenko Space" ←
ROOM 3 - G. FISCHER-SERVI: "Intuitionistic
modal logic"
- 5:40 p.m.- 6:00 p.m. - ROOM 1 - J. KAJIYA - L. RUDIN: " D_ω as a mo-
del for ω -order intuitionistic Lo-
gic"
ROOM 2 - G. GEORGESCU: "Algebraic Logic for ←
the quantifier "There exists uncoun-
table many""
ROOM 3 - B.J. LUCAS: "Inadequate and weakly
incompatible modal systems"
- 6:00 p.m.- 6:20 p.m. - ROOM 1 - A.W. JANKOWSKY: "Some modifications
of Scott's theorem on injective spa-
ce"
ROOM 2 - S. TULIPANI: "Decidability and unde-
cidability of some theories of mea-
sure spaces"
ROOM 3 - D. ULRICH: "Some extensions of im-
plicational S_5 not complete with re-
spect to any class of Logic"
- 7:30 p.m. - DINNER

WEDNESDAY, AUGUST 25

- 9:00 a.m.-10:00 a.m. - ROOM 1 - A. JOYAL: "Topos theory in Logic"
10:10 a.m.-11:10 a.m. - ROOM 1 - G. CHERLIN: "Undecidable fields of
characteristic p"
11:30 a.m.-12:30 a.m. - ROOM 1 - R. MAGARI: "Algebraic logic and dia-
gonal phenomena"
12:30 a.m. - LUNCH
7:30 p.m. - DINNER

THURSDAY, AUGUST 26

- 9:00 a.m.-10:00 a.m. - ROOM 1 - L. VAN DEN DRIES
- 10:10 a.m.-11:10 a.m. - ROOM 1 - J. MAKOWSKY: "Model theoretic issues in theoretical computer science"
- 11:30 a.m.-12:30 a.m. - ROOM 1 - M. DEZANI: "Filter lambda-models over type structures"
- 12:30 a.m. - LUNCH
- 2:30 p.m.- 3:30 p.m. - ROOM 1 - C. SMORINSKI: "III Lecture on Models of Peano Arithmetic"
- 3:40 p.m.- 4:10 p.m. - ROOM 1 - S. BASARAB: "Some model theory for regularly closed fields"
- ROOM 2 - C. BERNARDI - F. MONTAGNA: "Applications to logic of Ersov numeration theory"
- ROOM 3 - M. SANCHEZ-MAZAS: "An arithmetic model for modal logic"
- 4:10 p.m.- 4:30 p.m. - ROOM 1 - C. BERLINE: "Superstable groups"
- ROOM 2 - S. HAYASHI: "Extracting LIPS programs from constructive proofs: a formal theory of constructive mathematics based on LISP"
- ROOM 3 - S. VALENTINI: "A sequent calculus for the modal logic of provability"
- 5:00 p.m.- 5:20 p.m. - ROOM 1 - J. COMBASE: "On the existence of finitely determined models for some theories in Stationary Logic"
- ROOM 2 - S. RONCHI della ROCCA - B. VENNERI: "Principal types schemes for an extended type theory"
- ROOM 3 - M. FORTI - F. HONSELL: "Can cardinal ordering be universal?"
- 5:20 p.m.- 5:40 p.m. - ROOM 1 - A. HOOGEWIJS: "A partial predicate calculus and forcing"
- ROOM 2 - I. MARGARIA - M. ZACCHI: "Right and left invertibility in lambda-beta-calculus"
- ROOM 3 - R. MIGNONE: "Concerning ultrafilter characterizations for Huge cardinals"
- 5:40 p.m.- 6:00 p.m. - ROOM 1 - H. MANNILA: "A note on $(\lambda, \mu)^*$ -compactness"
- ROOM 2 - G. JACOPINI - M. VENTURINI ZILLI: "Inclusion problems among classes of lambda-terms"

ROOM 3 - E. WETTE: "1977 Wroclaw abstract renewed: computation of the anisotropic proportions in an anti-Einsteinian representation of all motions II"

6:00 p.m.- 6:20 p.m. - ROOM 1 - Z.H. GEORGIS: "Malitz quantifiers and well orderings"

ROOM 2 - M. COPPO: "Completeness of type assignment in continuous lambda models"

ROOM 3 - K. DOSEN: "Sequent systems for modal logic"

8:00 p.m. - Social dinner at Villa "Il Garofalo"

FRIDAY, AUGUST 27

9:00 a.m.-10:00 a.m. - ROOM 1 - E. BÖRGER: "Decision problems in Predicate Logic"

10:00 a.m.-11:10 a.m. - ROOM 1 - G. REYES

11:30 a.m.-12:30 a.m. - ROOM 1 - J.M.E. HYLAND

12:30 a.m. - LUNCH

2:30 p.m.- 3:30 p.m. - ROOM 1 - C. SMORINSKI: "IV Lecture on Models of Peano Arithmetic"

3:40 p.m.- 4:00 p.m. - ROOM 1 - J.P. JONES - Iu.V. MATIJASEVIC: "A new proof of the theorem of Davis Putnam and Robinson"

ROOM 2 - P. VOJTAS: "White and black - a Boolean game"

ROOM 3 - M. NEGRI: "Non standard codes for infinite sequences of natural numbers"

4:00 p.m.- 4:20 p.m. - ROOM 1 - D.C. McCARTY: "Mathematical and metamathematical applications of realizability"

ROOM 2 - P. STEPANEK: "Conditions stronger than homogeneity of Boolean algebras"

ROOM 3 - S.D. COMER: "A new foundations for the theory of relations"

5:00 p.m.- 5:20 p.m. - ROOM 1 - G.R. RENARDEL de LAVALETTE: "Extensional realizability"

ROOM 2 - H. ANDREKA: "Algebraic model theory = cylindric set algebras"

ROOM 3 - M.F. HARREL: "Extension to geometry of principia mathematica and related systems"

- 5:20 p.m.- 5:40 p.m. - ROOM 1 - R. MURAWSKI: "On trace expansion of initial segments"
 ROOM 2 - I. NEMETI: "Cylindric-Natural set algebras, the natural extension of Boolean operations to "First-order logic operations" defined on arbitrary sets"
- 5:40 p.m.- 6:00 p.m. - ROOM 1 - C. BENNET: "A lattice of degrees of provable extensions of Peano arithmetic"
 ROOM 2 - C. MARCHINI: "Unities-semantics and realizations"
- 6:00 p.m.- 6:20 p.m. - ROOM 1 - C. CALUDE - G. PAUN - Independent instances for some undecidable problems"
 ROOM 2 - Z. SIKIC: "Multiple forms of Gentzen's rules and some intermediate logics"
- 7:30 p.m. - DINNER

SATURDAY, AUGUST 28

- 9:00 a.m.-10:00 a.m. - M. FOURMAN: "Non constructive objects"
 10:00 a.m.-11:10 a.m. - D. LASCAR: "Subgroups of automorphism of a saturated structure"
 11:30 a.m.-12:30 a.m. - L. PACHOLSKI
 12:30 a.m. - LUNCH

INFORMATION:

Library - The University library is at Istituto Matematico "U. Di-
ni". It is open every day, except Saturday and Sunday,
from 8:15 a.m. to 3:00 p.m. (on Friday from 8:15 a.m. to
12:45 a.m.).

Photocopies can be obtained at a price of 100 L. it. per
page.

Inquire at the Secretary desk.

Lunch and dinner - Lunch and dinner are served at the Cafeteria of
Casa dello Studente. They must be booked on Monday morning
and purchasing tickets (Lit 2.000 each).

A social dinner at Villa "Il Garofalo" will be offered on
26 th August (Bus departure from Casa dello Studente at
7:30 p.m.).

Participants can have their breakfast at the Bar (open from
8:00 a.m. to 8:00 p.m.).

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