

Models of Arithmetic and Analysis
MARIAN 2004, Pisa, June 25-26, 2004

PROGRAM

Friday, June 25th

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|--------------------|--------------------------------------------------------------------------------------------|
| 8:30-9:25 | Registration |
| 9:25-9:35 | Welcome |
| 9:35-10:15 | V. Benci, <i>Counting theories and hypernatural numbers</i> |
| 10:20-10:25 | Break |
| 10:25-11:05 | K. Hrbacek, <i>Internally iterated ultrapowers</i> |
| 11:10-11:35 | Coffee break |
| 11:35-12:15 | J.P. Ressayre, <i>Arithmetics of the real exponential field</i> |
| 12:20-12:25 | Break |
| 12:25-13:05 | Z. Adamowicz, <i>Collection and the question of the collapsing of the hierarchy</i> |
| 13:10-15:30 | Lunch break |

CONTRIBUTED SESSION I – Aula Magna

- 15:30-15:50 S. L'Innocente, *Weakly minimal modules over valuation domains*
- 15:55-16:15 T. Servi, *On the decidability of the real exponential field: candidates for a complete axiomatization*
- 16:20-16:40 S. Kuhlmann, *Primes and irreducibles in truncation integer parts of real closed fields*
- 16:45-17:05 M. Forti, *A topological characterization of enlargements*

CONTRIBUTED SESSION II – Aula Riunioni

- 15:30-15:50 F. Engstrom, *A notion of recursive saturation for models of arithmetic with the standard predicate*
- 15:55-16:15 D. Lush, *Analysis based on large finite linear orderings*
- 16:20-16:40 J.P. Mayberry, *Arithmetic as the theory of finite sets*

- 17:10-17:35** **Coffee break**
- 17:35-18:15** **J. Schmerl, *The pentagon as a substructure lattice***
- 18:20-18:25** **Break**
- 18:25-19:05** **V. Kanovei, *Fully saturated extensions of standard universe***
- 20:30** **Social Dinner, Ristorante “*Vecchio Teatro*” (Piazza Dante)**

Saturday, June 26th

- 09:30-10:10** R. Kossak, *PA and FA: On some properties of automorphism group and arithmetically saturated models of arithmetic*
- 10:15-10:20** Break
- 10:20-11:00** D. Ross, *Nonstandard measure and countable additivity*
- 11:05-11:30** Coffee break
- 11:30-12:10** P. D'Aquino, *Around quadratic reciprocity law in weak fragments of arithmetic*
- 12:15-12:20** Coffee break
- 12:20-13:00** C. Toffalori, *Non-standard aspects in model theory of modules*
- 13:05-15:20** Lunch break

CONTRIBUTED SESSION III – Aula Magna

- 15:20-15:40** **A. Fornasiero, *Embedding Henselian fields into power series***
- 15:45-16:05** **F.V. Kuhlmann, *Dense subfields and integer parts***
- 16:10-16:30** **T. Todorov, *Non-standard analysis and J.F. Colombeau's new generalized functions***

CONTRIBUTED SESSION IV – Aula Riunioni

- 15:20-15:40** **S. Mohsenipour, *A new proof of non-finite axiomatizability of normal open induction***
- 15:45-16:05** **P. Andreev, *An axiomatization of the hyperfinite world***
- 16:10-16:30** **C. Dimitracopoulos, *and the existence of infinitely many primes***

- 16:35-16:55** **Break**
- 16:55-17:35** **A. Enayat, *Strong foundational systems and automorphisms***
- 17:40-17:45** **Break**
- 17:45-18:25** **A. Berarducci, *Definable groups in o-minimal structures***
- 18:30** **Closing ceremony (with wine)**