

Journées sur les Arithmétiques Faibles (JAF 36)

Conference Programme

Monday, June 5

- 8:45 – 9:30 *Registration*
9:30 – 9:40 *Opening*
- 9:40 – 10:20 Irène Guessarian. Congruence preservation and recognizability.
10:20 – 11:00 Christian Hoffrut. A note on counting quantifiers.
- 11:00 – 11:20 *Coffee break*
- 11:20 – 12:00 Leszek Kolodziejczyk. The logical strength of automata theory.
12:00 – 12:40 Henri-Alex Esbelin. Computable groups of low complexity.
12:40 – 13:20 Alexander Zapryagaev. Interpretations in Presburger arithmetic.
- 13:20 – 15:00 *Lunch*
- 15:00 – 15:40 Lev Beklemishev. Reflection calculus and conservativity spectra.
15:40 – 16:20 Fedor Pakhomov. Gödel's second incompleteness theorem without arithmetization.
- 16:20 – 16:40 *Coffee break*
- 16:40 – 17:20 Mateusz Łełyk. On the strength of various truth principles.
17:20 – 18:00 Bartosz Wcisło. Remarks on Lachlan's theorem.

Tuesday, June 6

- 9:00 – 9:40 Anatoly Beltiukov. Subrecursive dialectica interpretations for subrecursive realizations.
- 9:40 – 10:20 Anatol Slissenko. On entropic measures of computations.
- 10:20 – 11:00 Stanislav Speranski. On weak monadic second-order definability in some weak arithmetical structures.
- 11:00 – 11:20 *Coffee break*
- 11:20 – 12:00 Denis Ovchinnikov. Interpretations by positive existential formulas and the Diophantine-class problems over algebraic structures.
- 12:00 – 12:40 Eugenio Omodeo. “One equation to rule them all”, revisited.
- 12:40 – 13:20 Yuri Matiyasevich. The Four Color Conjecture as a particular case of Hilbert’s tenth problem.
- 13:20 – 15:00 *Lunch*
- 15:00 – 16:00 *Piano concert in the Marble Hall*
- 16:45 – 18:30 *Boat trip*
- 19:00 – 22:00 *Social dinner*

Wednesday, June 7

- 9:00 – 9:40 Denis Saveliev. Goodstein-type theorems and fast-growing functions.
- 9:40 – 10:20 Gregory Kucherov. Recent results on combinatorics and algorithmics of repeats in strings
- 10:20 – 10:40 *Coffee break*
- 10:40 – 11:20 Jana Glivická. Nonstandard methods and models of weak arithmetics.
- 11:20 – 12:00 Daniyar Shamkanov. Global neighbourhood completeness of the Gödel-Löb provability logic.
- 12:00 – 12:40 Petr Glivicky. Model theory of linear fragments of Peano arithmetic.
- 12:40 – 14:30 *Lunch*
- 14:30 – 15:10 Paola D’Aquino. Roots of exponential polynomials.
- 15:10 – 15:50 Manuel José S. Loureiro. Lipschitz determinacy for initial levels of the Hausdorff hierarchy in second order arithmetic.
- 15:50 – 16:00 *Closing*