

## Trente-septième Journées sur les Arithmétiques Faibles

### Thirty seventh Weak Arithmetics Days

*Villa Finaly - Florence (Italy)*

#### Monday, May 28 2018

##### Morning

- ◆ **9h** : Registration
- ◆ **9h45** : Opening session
- ◆ **10h** : Olivier Finkel (Paris VII) *Polishness of some topologies related to automata* [Joint work with Olivier Carton and Dominique Lecomte]
- ◆ **10h30** : Coffee break
- ◆ **11h15** : Laurence Kirby (Baruch College, CUNY) *Bounded finite set theory*
- ◆ **11h45** : Jana Glivická (Prague) *Models of arithmetics with linear induction*

##### Lunch (13h)

##### Afternoon

- ◆ **14h30** : Eugenio Omedo (Trieste, Italy) *Further reflections on candidate "rule-them-all" Diophantine equations* [Joint work with Domenico Cantone]
- ◆ **15h00** : Mihail Starchak (Saint Petersburg) *Two Classes of Basic Divisibility Families from NP*
- ◆ **15h30** : Coffee break
- ◆ **16h15** : Petr Glivický (Prague) *Femat's last theorem and Catalan's conjecture in arithmetics with weak exponentiation*

#### Tuesday, May 29 2018

##### Morning

- ◆ **9h30** : Julien Cervelle (Paris 12) *Study of stepwise simulation between ASMs* [Joint work with Patrick Cégielski]
- ◆ **10h** : Charalampos Comaros (University of Aegean, Greece) *Products of primes in weak systems of arithmetic*
- ◆ **10h30** : Coffee break
- ◆ **11h15** : Yuri Gurevich (Ann Arbor) *LOGIC in computer science, computer engineering and mathematics*

##### Lunch (13h)

##### Afternoon

- ◆ **14h30** : Fedor Pakhomov (Steklov Institute, Moscow) *Weak Set Theories and  $\Delta_0$ -Collection*
- ◆ **15h30** : Jean-Eric Pin (Paris VII) *Regular languages, profinite topologies and weak arithmetic*
- ◆ **16h30** : Coffee break
- ◆ **17h15** : Costas Dimitracopoulos (Athens) *End extensions of models of fragments of PA* [Joint work with Vasileios Paschalis]

##### Special Dinner (19h)

#### Wednesday, May 30 2018

##### Morning

- ◆ **9h30** : Michal Tomasz Godziszewski (Warzam)  $\Pi_1^0$  - computable quotient presentation of a nonstandard model of arithmetic
- ◆ **10h** : Pierre Valacher (Paris 12) *Primitive recursion and algorithmically-completeness for Primitive Recursive Class of fuction* [Joint work with Patrick Cégielski, Julien Cervelle and Serge Grigorieff]
- ◆ **10h30** : Coffee break
- ◆ **11h15** : Mateusz Lelyk (Poland) *How useful are pure compositional axioms for the truth predicate?*

##### Closure –Distribution of lunch boxes (12h15)

