

# Sy's 60<sup>th</sup> Birthday Conference

Vienna, July 2013

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### Welcome to All Participants

Welcome to my 60<sup>th</sup> Birthday Conference; thanks for coming! I expect that we will have a good time. We have many interesting (and sometimes unusual) talks planned and have worked hard to put together some nice social events. Have fun!

Sy

### General Information

- All **lectures** will take place in the **lecture hall of the Josefinum**, located on the first floor (above ground level). To get there use the main/central entrance of the Josefinum and take the next stairs up one floor. Signs will be posted to direct participants to the appropriate room.
- During the **coffee breaks** coffee will be served at the tea room and the seminar room of the KGRC.
- During the coffee breaks someone will stay at the lecture hall, so you may safely leave your laptops there. During lunch breaks and in the evenings the lecture hall will be **locked and inaccessible**.
- The KGRC will be open from 8:00a.m. until 6:00p.m. Some offices will be open to create additional space for conversation and discussion. Blackboards and chalk can be found in the tea room, in the seminar room, and on the hallway between rooms 91 and 92.
- Each participant will receive a **username and password** for usage of the **wireless internet**. Additionally, **two computers** will be provided in **room 98**.
- Additional information can be found on the conference web-site:

<http://www.logic.univie.ac.at/2013/SDF60/Home.html>

### Acknowledgements

Sy wishes to express his gratitude to Lidia Friedman and all members of the KGRC who have provided their assistance and time to help organise this conference and make it a success. Thanks!

	Monday 8	Tuesday 9	Wednesday 10	Thursday 11	Friday 12
9	09:00–09:10 SDF 09:10–09:40 Coecke	09:00–09:30 Törnquist	09:00–09:30 Knight	09:00–09:30 Ida	09:00–09:30 Buss
10	09:50–10:20 Baldwin	09:40–10:10 Kanovei	09:40–10:10 Beckmann	09:40–10:10 Weiermann	09:40–10:10 Wilken
11	10:50–11:20 Selivanov	10:40–11:10 Nies	10:40–11:10 Brendle	10:40–11:10 Halilovic	10:40–11:10 Dobrinen
12	11:30–12:00 Greiner	11:20–11:50 Flum	11:20–11:50 Friedman/Gregory	11:20–11:50 Raghavan	11:20–11:50 B. Miller
13					12:00–12:30 Krok/Enges
14					
15	14:15–14:45 Ros 14:55–15:25 Conley	14:00–14:30 Chong		14:00–14:30 Harizanov	<b>14:20 Fishing</b>
16	<b>CAKE+SEKT</b> 16:10–16:40 Magidor	14:40–15:10 Sato		14:40–15:10 Golshani	
17	16:50–17:20 Arrigoni	15:20–15:50 Sanders	<b>15:30 Augarten</b>	15:40–16:10 Mota	
18	17:30–18:00 Enayat		<b>17:00 Music</b>	16:20–16:50 R. Miller	
			<b>17:00 Banquet</b>	17:00–17:30 Beklemishev	

## Monday, July 8

9:00: **Sy David Friedman**, *Hi from Sy*

09:10-09:40: **Bob Coecke**, *Math, Physics, Language and music*

09:50-10:20: **John Baldwin**, *Categoricity and Completeness: Formalization without Foundationalism*

### Coffee Break

10:50-11:20: **Victor Selivanov**, *Descriptive Set Theory and Computation Theory*

11:30-12:00: **Wilfried Greiner**, *Two Romans meet...*

### Lunch Break, Reimbursement Desk (Room 98)

14:15-14:45: **Luca Motto Ros**, *On the Invariant Universality Property*

14:55-15:25: **Clinton Conley**, *Local Complexity among treeable Equivalence Relations, Part I*

### Fancy Coffee Break

16:10-16:40: **Menachem Magidor**, *When Physics meets Set Theory*

16:50-17:20: **Tatiana Arrigoni**, *The Hyperuniverse Program from a philosophical Point of View*

17:30-18:00: **Ali Enayat**, *Mathematics meets Poetry: Omar Khayyam*

## Tuesday, July 9

09:00-09:30: **Asger Törnquist**, *TBA*

09:40-10:10: **Vladimir Kanovei**, *Surreal Numbers from the Point of View of Nonstandard Analysis*

### Coffee Break

10:40-11:10: **Andre Nies**, *Metric Spaces and Computability Theory*

11:20-11:50: **Jörg Flum**, *Some Remarks on a 60-year old Model Theoretic Method*

### Lunch Break, Reimbursement Desk (Room98)

14:00-14:30: **Chitat Chong**, *The Minimal Alpha Degree revisited*

14:40-15:10: **Masahiko Sato**, *Viewing Lambda Terms through Maps*

15:20-15:50: **Sam Sanders**, *Infinitesimals and Computability: A Marriage made in Platonic Heaven*

### 17:00 Musical Evening!

## Wednesday, July 10

09:00-09:30: **Julia Knight**, *Strongly Minimal Theories with Computable Models*

09:40-10:10: **Arnold Beckmann**, *Parity Games and Propositional Proofs*

**Coffee Break**

10:40-11:10: **Jörg Brendle**, *Maximality and Definability*

11:20-11:50: **Ilene Friedman and Greg Gregory**, *Sarasota, Florida*

**Lunch Break**

**15:30 Augarten Tour**

**17:00 Drinks and Banquet**

## Thursday, July 11

09:00-09:30: **Tetsuo Ida**, *Graphs for Computational Origami- Formalism and Algorithms*

09:40-10:10: **Andreas Weiermann**, *How is it that Infinitary Methods can be applied to Finitary Mathematics?*

**Coffee Break**

10:40-11:10: **Ajdin Halilovic**, *The other Side of the Tree Property*

11:20-11:50: **Dilip Raghavan**, *Combinatorial Dichotomies and Cardinal Invariants*

**Lunch Break**

14:00-14:30: **Valentina Harzianov**, *Effective Categoricity of Injection Structures*

14:40-15:10: **Mohammad Golshani**, *Violating GCH everywhere by a Cofinality preserving Forcing*

**Coffee Break**

15:40-16:10: **Miguel Angel Mota Gaytan**, *More Applications of the Method of Rigid Iterations with Side Conditions*

16:20-16:50: **Russell Miller**, *Local Computability and the Ordinal  $\omega_1^{CK} \times \omega$*

17:00-17:30: **Lev Beklemishev**, *TBA*

## Friday, July 12

09:00-09:30: **Sam Buss**, *On Clause Learning Algorithms for Satisfiability*

09:40-10:10: **Gunnar Wilken**, *TBA*

**Coffee Break**

10:40-11:10: **Natasha Dobrinen**, *TBA*

11:20-11:50: **Ben Miller**, *Local Complexity among Treeable Equivalence Relations, Part II*

12:00-12:30: **Olga Krok and Petri Enges**, *Fishing in Finland*

**Fishing!**



**KGRC.**

- 1 Kurt Gödel Research Center

**Hotels.**

- 2 Arcotel Boltzmann
- 3 Hotel and Palais Strudlhof
- 4 Pension Ani-Falstaff
- 22 Hotel Bellevue (not on this map)
- 24 Hotel Atlanta

**Supermarkets, Bakeries.**

- 3 Spar (supermarket with Deli counter and ATM machine)
- 5 Ströck (bakery)
- 6 Hofer (supermarket, slightly cheaper than Spar or Billa), ATM machine close by
- 7 Spar (supermarket with Deli counter)
- 8 Billa (supermarket with Deli counter)
- 9 Billa (supermarket)
- 25 Spar (supermarket with Deli counter)

**Restaurants, Cafes.**

- 10 AAI Mensa (Student Cafeteria, two menus, one vegetarian)
- 11 Pizzeria Vecchi Amici (delicious Pizza!)
- 12 Café Weimar (classic Viennese *Kaffehaus*, a bit expensive)
- 13 Rochus1090 (modern Viennese *Kaffehaus*)
- 15 Hitomi (Japanese restaurant, very low prices, reasonable sushi)
- 16 Weltcafe (organic food and coffee)
- 17 Stiegl Ambulanz (bar food, micro-brewery in house, nice outdoor areas on the AKH Campus)
- 18 Regenbogenstube (organic food, vegetarian and vegan selection, set lunch offers)
- 19 Café Francaise, French *Kaffehaus* and restaurant (set lunch)
- 20 Café Stein (Viennese Café)
- 21 Restaurant Yamm! (Vegetarian Restaurant, a bit expensive)
- 23 Restaurant Flein (Beautiful garden!)

**Attention:** Due to ongoing repairs of the streetcar tracks, the trams that run along Währinger Straße (37, 38, 40, 41, 42) are replaced by buses between the Schottentor and Volksooper subway stations. These buses follow slightly different routes than the trams they replace. Wiener Linien (Vienna's public transportation company) recommends to go by foot along Währinger Straße, if possible, as the buses may not be able to handle the demand for transportation in this area, especially at rush hour.