

# Status-Seminar SFB “Algorithmic and Enumerative Combinatorics”

## Programme

### • Monday, December 3, 2018

09:00 – 09:45 **Christian Krattenthaler**

*Determinants*

09:55 – 10:25 **Christian Krattenthaler**

*Tutorial on HYP and HYPQ*

10:25 – 10:45 *Coffee / Tea Break*

10:45 – 12:00 **Discussions**

12:00 – 14:00 *Lunch Break*

14:00 – 14:30 **Manuel Kauers**

*What are ... integral D-finite functions?*

14:30 – 15:00 **Open problems — Session 1**

(Josef Küstner, Elaine Wong, Clément Requilé)

15:00 – 15:20 *Break*

15:20 – 15:50 **Manjil Saikia**

*What is ... the polynomial method?*

15:50 – 16:20 **Open problems — Session 2**

(Cristian-Silviu Radu, Ting Guo, Katarzyna Grygiel)

16:20 – 18:45 *Discussions at the Punschstand*

18:45 – *Dinner*

### • Tuesday, December 4, 2018

09:00 – 09:45 **Peter Paule**

*Modular functions and partition congruences: basic notions*

09:55 – 10:40 **Cristian-Silviu Radu**

*Modular functions and partition congruences: applications*

10:40 – 11:00 *Coffee / Tea Break*

11:00 – 12:00 **Discussions**

12:00 – 14:00 *Lunch Break*

14:00 – 14:50 **Zafeirakis Zafeirakopoulos**

*Geometric excursions of a partition analyst*

14:50 – 15:10 *Break*

15:10 – 15:40 **Manuel Kauers**

*Software Tutorial 1*

15:40 – 16:10 **Thibaut Verron**

*Software Tutorial 2*

16:10 – 16:30 *Break*

16:30 – 16:45 **General Announcements: Volunteers\***

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\*This slot is for people to give very short (3–5 min) talks on any topic. For example: announcement of conferences, grants, open positions, other open problems, etc.

16:45 – 18:45 *Problem Solving Groups*

18:45 – *Dinner*

• **Wednesday, December 5, 2018**

09:00 – 09:25 **Evans Doe Ocansey**

*Representation of nested products over roots of unity in difference rings*

09:30 – 09:55 **Manfred Buchacher**

*Restricted inhomogeneous lattice walks*

10:00 – 10:25 **Nicolas Smoot**

*A brief exposition of the Ramanujan–Kolberg algorithm*

10:30 – 11:00 *Coffee / Tea Break*

11:00 – 11:25 **Thibaut Verron**

*Who wants (a few) “guessing” data points for free?*

11:25 – 11:55 **Veronika Pillwein**

*On a Kapteyn series of the second kind*

12:00 – *Lunch*