

**Summer School on “Combinatorics, Geometry, and Physics”**

**organized by**

**Abdelmalek Abdesselam (U of Virginia),  
Christian Krattenthaler (U Vienna),  
Adrian Tanasă (Paris North U),  
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**June 2 - 13, 2014**

**Schedule, Week 2: June 9 - 13, 2014**

• **Monday, June 9, 2014 - All lectures at the Campus AKH, Alserstrasse 4/Hof 1, Seminar Rm. 2**

09:30 – 10:30 **Alice Guionnet**

Loop Equations, Topological Expansions, and Universality in Random Matrix Models

10:30 – 11:00 *break*

11:00 – 12:30 **Exercise Session**

12:30 – 14:00 *lunch break*

14:00 – 15:00 **Razvan Gurau**

Introduction to Random Tensors

15:00 – 15:30 *break*

15:30 – 16:30 **Razvan Gurau**

Introduction to Random Tensors

16:30 – 18:00 **Exercise Session**

• **Tuesday, June 10, 2014 - All lectures at the ESI, Boltzmann Lecture Hall**

09:00 – 10:30 **Razvan Gurau**

Introduction to Random Tensors

10:30 – 11:00 *coffee/tea break*

11:00 – 12:30 **Exercise Session**

12:30 – 14:00 *lunch break*

14:00 – 15:00 **Alice Guionnet**

Loop Equations, Topological Expansions, and Universality in Random Matrix Models

15:00 – 15:30 *break*

15:30 – 16:30 **Alice Guionnet**

Loop Equations, Topological Expansions, and Universality in Random Matrix Models

16:30 – 18:00 **Exercise Session**

- **Wednesday, June 11, 2014 - All lectures at the ESI, Boltzmann Lecture Hall**

09:00 – 10:30 **Alice Guionnet**

Loop Equations, Topological Expansions, and Universality in Random Matrix Models

10:30 – 11:00 *coffee/tea break*

11:00 – 12:30 **Exercise Session**

12:30 – 14:00 *lunch break*

14:00 – 15:00 **Students' presentations**

15:00 – 15:30 *break*

15:30 – 16:30 **Students' presentations**

16:30 – 18:00 **Students' presentations**

- **Thursday, June 12, 2014 - All lectures at the ESI, Boltzmann Lecture Hall**

09:00 – 10:30 **Razvan Gurau**

Introduction to Random Tensors

10:30 – 11:00 *coffee/tea break*

11:00 – 12:30 **Exercise Session**

12:30 – 14:00 *lunch break*

14:00 – 15:00 **Alice Guionnet**

Loop Equations, Topological Expansions, and Universality in Random Matrix Models

15:00 – 15:30 *break*

15:30 – 16:30 **Alice Guionnet**

Loop Equations, Topological Expansions, and Universality in Random Matrix Models

16:30 – 18:00 **Exercise Session**

20:00 **Social “Heurigen” Evening**

- **Friday, June 13, 2014 - All lectures at the ESI, Boltzmann Lecture Hall**

09:00 – 10:30 **Razvan Gurau**

Introduction to Random Tensors

10:30 – 11:00 *coffee/tea break*

11:00 – 12:30 **Exercise Session**

12:30 – 14:00 *lunch break*

14:00 – 15:00 **Discussion of problems**

15:00 – 15:30 *break*

15:30 – 16:30 **Discussion of problems**

16:30 – 18:00 **Discussion of problems**

**All lectures - except on Monday June 9 - take place in the ESI Boltzmann Lecture Hall**