

Shuffles, descents and representations.
A Conference in memory of Manfred Schocker
Nice, September 10–14.
Program.

- **Monday 10 Sept.**

- 9.30: Coffee (Important notice: the morning session will take place in the “Grand Château” of the University, Salle des Actes; please look at the web site, practical informations page, where you will find a map of the campus)
- 10-10.15: Introduction by **Albert Marouani**, President of the University.
- 10.15-11: **Ch. Reutenauer** : “Manfred”
- 11.15-12.15: **Persi Diaconis** : Lecture Series 1, “The mathematics of shuffling cards”
- 12.30: Buffet (Important notice: all sessions from monday afternoon onwards will take place in the Salle de Conférences of the Math Lab, please look at the web site, practical informations page, where you will find a map of the campus).
- 14-15: **Karin Erdmann** : “The Lie module of the symmetric group ”
- 15.30-16.30: **Mihai Ciucu** : “No-feedback card guessing for dovetail shuffles”
- 17-18: **Dieter Blessenohl** : “On the Canonical Lie Projector”

- **Thursday 11 Sept.**

- 9-10: **Persi Diaconis** : Lecture Series 2, “Descent algebras and quasi-symmetric functions”
- 10.15-11.15: **Tomasz Brzezinski** : “Corings and comodules”
- 11.30-12.30: **Kurusch Ebrahimi-Fard** : “Rota-Baxter type identities and shuffle products”
- 12.45: Lunch at the cafeteria of the Uni.
- 14-15: **Terry Lyons** : “The expected signature, shuffle products and Lévy area”
- 15.15-16.15: **Jason Fulman** : “Card shuffling and random walk on representations”

• **Wednesday 12 Sept.**

- 9-10: **Jean-Yves Thibon** : “Commutative combinatorial Hopf algebras”
- 10.15-11.15: **Anthony Henderson** : “Orbit closures in the enhanced nilpotent cone”
- 11.30-12.30: **Christian Kassel** : “Some universal constructions on Hopf algebras”
- 12.45: Lunch at the cafeteria of the Uni.
- 14: Free afternoon, Bus Departure at 14. for St Jean-Cap-Ferrat.

• **Thursday 13 Sept.**

- 9-10: **Persi Diaconis** : Lecture Series 3, “Mathematical appearances of riffle shuffling”
- 10.15-11.15: **Frédéric Chapoton** : “Shuffles and operads”
- 11.30-12.30: **Paul-Hermann Zieschang** : “On schemes which contain a constrained set of involutions, or: an algebraic approach to twin buildings”
- Free Lunch Break.
- 14-15: **Pierre Cartier** : “From multizeta values to free Lie algebras”
- 15.15-16.15: **Roger Bryant** : “The module structure of free Lie algebras”

- **Friday 14 Sept.**

- 9-10: **Phil Hanlon** : “A Hodge decomposition of the coloring complex and coefficients of the chromatic polynomial”
- 10.15-11.15: **Christophe Hohlweg** : “Descent algebras of finite Coxeter groups”
- 11.30-12.30: **Marcelo Aguiar** : “Shuffles, the Coxeter complex of type A, and bilax monoidal functors”
- Lunch at the cafeteria of the Uni.
- 14-15: **Persi Diaconis** : Lecture Series 4, “Random walks on hyperplane arrangements”