

The Amitsur Conference in Algebra

June 28–29, 2005

The Weizmann Institute of Science
Faculty of Mathematics and Computer Science

Program

Tuesday, June 28, 2005

- 10:00–10:30 Coffee and Welcome
- 10:30–11:30 **Aner Shalev** (Hebrew University)
Permutation groups and quantum computing
- 11:30–12:30 **Amiram Braun** (Haifa University)
On a characteristic p version of a theorem of J. Dixmier
- 12:30–2:30 Lunch
- 14:30–15:30 **Eli Bagno*** (Hebrew University) & **Riccardo Biagioli** (University of Quebec)
Colored-descent representations of complex reflection groups of $G(r,p,n)$
- 15:30–16:00 Coffee break
- 16:00–17:00 **Efi Cohen*** & **Zvi Arad** (Netanya Academic College)
Classification of table algebras with two basis elements whose product is a linear combination of their conjugates
- 17:00–18:00 **Abraham Klein** (Tel Aviv University)
Cardinality restrictions on subsets of zero divisors in rings
- 18:30 Short visit to Chaim Weizmann's House
- 19:00 Conference Dinner

Wednesday, June 29, 2005

10:15-10:30 Coffee

10:30-11:30 **Mia Cohen** (Ben Gurion University)
Fourier transforms for Hopf algebras

11:30-12:30 **Yuri Bazlov** (University of London)
Self-dual Nichols-Woronowicz algebras and cohomology of flag manifold

12:30-2:30 Lunch

14:30-15:30 **Malka Schaps** (Bar Ilan University)
Traces in quaternion algebras and lengths of geodesics

15:30-16:00 Coffee break

16:00-17:00 **Michael Natapov** (Technion)
On projective representations of nilpotent groups

17:00-18:00 **Alexei Belov*** (Hebrew University), **Louis Rowen**
& **Uzi Vishne** (Bar Ilan University)
Normal basis of algebras

18:00-18:30 **Timo Hanke** (Technion)
The explicit construction of noncrossed product algebras over small fields