

Conference program „Applied Algebraic Topology“, July 4 - 8, 2011, ETH Zurich

All lectures take place in lecture hall G 3

| | Monday, July 4 | Tuesday, July 5 | Wednesday, July 6 | Thursday, July 7 | Friday, July 8 |
|---------------|---|--|---|--|---|
| 08:30 - 09:15 | Registration and coffee (G 69) | | | | |
| 09:00 - 09:45 | | Jesus Gonzales Higher topological complexity | Shmuel Weinberger Disordered solids and the dynamics of bounded geometry | Gunnar Carlsson Persistent homology for visualization | Herbert Edelsbrunner A point calculus for persistent homology |
| | Roy Meshulam Topology of random complexes | | | | |
| 09:45 - 10:15 | | Coffee break (G 69) | Coffee break (G 69) | Coffee break (G 69) | Coffee break (G 69) |
| 10:15 - 11:00 | Robert Ghrist Topological signal processing | Robert Adler Random fields and random geometry | John Baillieu Information gradients and topology in random fields | Dirk Schütz Walker's conjecture on planar polygon spaces | Thomas Kahl Some collapsing operations for precubical sets |
| 11:15 - 12:00 | Günter Ziegler The colored Tverberg problem (and beyond) | Sergey Yuzvinsky Topological complexity of motion planning on hyperplane complements | Armando Costa Collapsibility and containment problems of random 2-complexes | Eric Babson Random simplicial complexes | Martin Raussen Simplicial models for trace spaces |
| 12:00 - 14:00 | Lunch break | Lunch break | Lunch break | Lunch Break | Lunch break |
| 14:00 - 14:45 | Lucile Vandembroucq Weak topological complexity and the cofibre of the diagonal map | Matthew Kahle Configuration spaces of hard disks | Excursion | Uli Wagner Embeddability of random complexes | Eric Goubault Trace spaces: algorithmics and applications |
| 14:45 - 15:15 | Coffee break (G 69) | Coffee break (G 69) | | Coffee break (G 69) | Coffee break (G 69) |
| 15:15 - 16:00 | Slava Krushkal Topological arbiters | Andrzej Zuk On the problem of Atiyah about L2 Betti numbers | | Patrizio Frosini Some new results in multi-dimensional persistent homology | Nathan Linial What are high-dimensional permutations. How many are there? |
| 16:30 - 16:50 | | Benjamin Matschke News on the square peg problem | | Viktor Fromm Topology of Spaces of Polygons | |
| 17:00 - 17:20 | | Ken Deeley Configuration spaces of thick particles on graphs | | Mikael Vejdemo Johansson Incremental and exploratory persistence | |
| | 19:00 Conference dinner | | | | |