

Program Schedule SNSC'08

Time		Thursday, July 24, 2008
13:00	13:15	Welcome (Paule)
13:15	14:15	Invited Talk MATTHIES, Hermann G.: <i>White Noise Numerical Methods for Stochastic Partial Differential Equations</i>
14:15	14:30	Break
14:30	15:30	Invited Talk KALTOFEN, Erich: <i>The Discovery of Reduced Symbolic Models and the Seven Dwarfs of Symbolic Computation</i>
15:30	16:00	Break
16:00	16:45	F1301 LEVANDOVSKYY, Viktor (20 min): <i>A Symbolic Approach to the Generation, Stability and Dispersion of Finite Difference Schemes</i> PILLWEIN, Veronika (25 min): <i>Positive Jacobi kernel polynomial sums</i>
16:50	17:10	LOUVET, Nicolas (20 min): <i>On the Computation of Componentwise Condition Numbers</i>
17:30	17:45	Panel Discussion: Introduction (Paule)
17:45	18:45	Panel Discussion
19:00		Conference Dinner: bus departure
19:30		Conference Dinner

Program Schedule SNSC'08

Time		Friday, July 25, 2008
09:00	10:00	Invited Talk VAN DER VORST, Henk: <i>Linear Algebra and Computers: An upward spiral</i>
10:00	10:15	Break
10:15	11:00	F1302 BUCHBERGER, Bruno (15 min): <i>Overview of the Theorema Project</i> JEBELEAN, Tudor (15 min): <i>Combining Logic and Algebra in Theorema for Program Verification and Natural Style Proving</i> KUTSIA, Temur (15 min): <i>Equational Reasoning in Theorema</i>
11:05	11:25	JOHNSON, Jeremy (20 min): <i>Use of computer algebra and symbolic computation in the generation and optimization of numeric code</i>
11:30	12:15	F1303 SCHICHO, Josef (25 min): <i>Themes in 1303 (with emphasize on inter-project cooperations), Lie algebras and Diophantine equations</i> MOORE, Brian (20 min): <i>Balancing of parallel mechanisms</i>
12:15	13:30	Lunch
13:30	14:30	Invited Talk GEDDES, Keith: <i>Generating Efficient Numerical Evaluation Routines for Bivariate Functions via Tensor Product Series</i>
14:30	14:45	Break
14:45	15:30	F1304 WINKLER, Franz (30 min): <i>Results of the three projectperiods</i> SHEMYAKOVA, Ekaterina (15 min): <i>Resultate zu Invariantensysteme von Differentialoperatoren</i>
15:35	15:55	MONAGAN, Michael (20 min): <i>Computing minimal polynomials for the bifurcation points of the logistic map.</i>
16:00	16:30	Break
16:30	17:15	F1305 SCHNEIDER, Carsten (25 min): <i>Symbolic Summation and its Application in Particle Physics</i> KOUTSCHAN, Christoph (10 min): <i>Proof of Ira Gessel's Lattice Path Conjecture</i> STAN, Flavia (10 min): <i>On Recurrences for Ising Integrals</i>
17:20	17:40	HAASE, Gundolf (20 min): <i>GPU Accelerated Algebraic Multigrid</i>
17:45	18:00	Break
18:00	18:25	F1309 SIMON, Rene (25 min): <i>All-at-once Multigrid KKT Solvers</i>
18:25	18:50	YAVNEH, Irad (25 min): <i>Automated Transformations of PDE Systems</i>
19:00		Excursion: bus departure

Program Schedule SNSC'08

Time		Saturday, July 26, 2008
09:00	10:00	Invited Talk HACKBUSCH, Wolfgang: <i>Efficient convolution with the Newton potential in d dimensions</i>
10:00	10:15	Break
10:15	11:15	F1308 KINDERMANN, Stefan (20 min): <i>Overview, achievements and outlook</i> SINI, Mourad (20 min): <i>Inverse Scattering for complex obstacles</i> WOLFRAM, Marie-Therese (20 min): <i>Direct and inverse problems in ion channels</i>
11:20	11:40	SCHERZER, Otmar (20 min):
11:45	12:30	F1306 VALDMAN, Jan (25 min): <i>Fast solvers and a posteriori error estimates in elastoplasticity</i> SCHÖBERL, Joachim (25 min): <i>High Order Finite Elements: Algorithms and Applications</i>
12:30	13:30	Lunch
13:30	14:30	Invited Talk RECIO, Tomas: <i>Automated Deduction in Geometry through Symbolic Computation</i>
14:30	14:45	Break
14:45	15:30	F1315 KAPL, Mario (15 min): <i>Overview of Project 15, Weighted Spline Wavelets and Applications</i> BÉLA, Szilvia (15 min): <i>Approximating implicitly defined curves by fat arcs</i> AIGNER, Martin / SONG, Xinghua (15 min): <i>Evolution-based fitting</i>
15:35	15:55	VAVILOV, Nikolai (20 min): <i>Calculations in exceptional groups over rings</i>
16:00	16:15	Break
16:15	17:00	F1322 BUCHBERGER, Bruno (5 min): <i>Project Genesis - Cooperation F1302/F1308</i> ROSENKRANZ, Markus (20 min): <i>Integro-differential Algebras for Solving/Factoring Boundary Problems</i> REGENSBURGER, Georg (20 min): <i>Integro-differential Polynomials, Max-plus Algebra, Wavelets</i>
17:00		Conclusion