List of communications presented at SPT2007

This list includes all communications; no distinction is made between plenary talks and talks in parallel sessions.

1. **M. Abd-el-Malek** (RAU): *Internal flow problem through a conducting thin duct via the Lie group method*
2. **N. Alexeeva** (ZA): *No communication*
3. **D. Alekseevsky** (GB): *Homogeneous bi-Lagrangian structures*
4. **I. Amiraliyeva** (TR): *No communication*
5. **K. Andriopoulos** (GR): *The Complete Symmetry Group story*
6. **M. Arminjon** (F): *Quantum wave equations in curved space-time from wave mechanics*
7. **E. Asadi** (NL): *Integrable systems of geometric curves*
8. **A. Ballesteros** (E): *Superintegrable spaces of non-constant curvature*
9. **I. Barashenkov** (ZA): *Interactions of domain walls in the parametrically driven nonlinear Schroedinger equation*
10. **V. Barutello** (I): *On the singularities of generalized solutions to n-body type problems*
11. **P. Basarab Horvath** (S): *Symmetry Classification of PDEs*
12. **S. Benenti** (I): *An algorithm for the computation of the curvature tensors without the Christoffel symbols*
13. **L. Biasco** (I): *Birkhoff–Lewis type results for the nonlinear wave equation*
14. **S. Bolotin** (USA): *Second species solutions of the elliptic 3 body problem*
15. **H. Broer** (NL): *Quasi-periodicity in dynamical systems*
16. **F. Calogero** (I): *Isochronous systems are not rare*
17. **D. Catalano Ferraioli** (I): *Nonlocal aspects of λ-symmetries and ODEs reduction*
18. **M. Celli** (I): *The central configurations of four masses $x, -x, y, -y$*
19. **M. Chanachowicz** (CAN): *Invariant classification of rotationally symmetric conformal Killing tensors in E^3*
20. **C. Chanu** (I): *R-separation of the conformal invariant Laplace equation*
21. **A. Cherubini** (I): *No communication*
22. **L. Chierchia** (I): *Quasi-periodic attractors in celestial mechanics*
23. **G. Cicogna** (I): *No communication*

24. **G.M. Coclite** (I): *Discontinuous solutions for the Degasperis-Procesi equation*
25. **V. Coti Zelati** (I): *Variational methods and homoclinic solutions to invariant tori*
26. **A. Degasperis** (I): *Darboux dressing construction of solutions to integrable PDEs with nonvanishing boundary values*
27. **F. Diacu** (CAN): *Saari's Homographic Conjecture of the 3-Body Problem*
28. **O. Dragulete** (CH): *No communication*
29. **J. Fejoz** (F): *Unchained polygons and the n-body problem*
30. **M. Fels** (USA): *Darboux integrable Harmonic maps*
31. **D. Ferrario** (I): *Transitive decomposition of n-body symmetry groups*
32. **G. Gaeta** (I): *No communication*
33. **V. Golovko** (RUS): *Nonlocal Poisson-Nijenhuis structures*
34. **A. Gonzalez** (I): *Analytic smoothing of geometric maps with applications to KAM theory*
35. **T. Gramchev** (I): *Divergent normal forms in Gevrey spaces*
36. **G. Gronchi** (I): *Predetermination of orbital elements*
37. **F. Gungor** (TR): *Symmetries of generalized Davey-Stewartson equations*
38. **H. Hanssmann** (NL): *On the destruction of resonant Lagrangian tori in Hamiltonian Systems*
39. **J. Horwood** (GB): *On the computation of first integrals of motion cubic in the momenta*
40. **M. Iwasa** (JP): *A method of asymptotic solutions invariant under the renormalization group*
41. **J. Janiska** (CZ): *Utiyamas reduction method and infinitesimal symmetries of invariant Lagrangians*
42. **B. Konopelchenko** (I): *Coisotropic and quantum deformations of associative algebras and integrable systems*
43. **I. Kosenko** (RUS): *Stability of the Tethered Satellite System Relative Equilibria. Unrestricted Problem*
44. **I. Krashilshchick** (RUS): *Nonlocal geometry od PDEs and integrability*
45. **B. Kruglikov** (N): *Applications of multi-brackets to formal intergability*
46. **D. Krupka** (CZ): *Natural variational principles*
47. **O. Krupkova** (CZ): *Variational exterior differential systems*
48. **S. Lombardo** (NL): *Algebraic reductions of integrable equations and Automorphic Lie Algebras*
49. **F. Magri** (I): *Cyclic systems of Levi Civita*

50. **G. Manno** (I): *Projectively equivalent metrics: a solution of a S. Lie problem*
51. **K. Marciniak** (S): *Separation curves, soliton hierarchies, bi-cofactor systems and geodesic equivalence*
52. **L. Martina** (I): *Symmetry group and Symplectic Structure for exotic particles in the plane*
53. **V. Matveev** (D): *Geodesically equivalent metrics in the large: Beltrami and Schouten problems*
54. **R. McLenaghan** (CAN): *Orthogonally separable webs for the Hamilton-Jacobi equation in three dimensional Minkowski space*
55. **A. Mironov** (RUS): *On the Tzizeica equation symmetries' relation to the Novikov-Veselov hierarchy*
56. **R. Montgomery** (USA): *Classical newtonian N-body scattering*
57. **P. Morando** (I): *Deformation of Lie derivative and μ-symmetries*
58. **O. Morozov** (RUS): *Maurer-Cartan forms for symmetry pseudo-groups and coverings of differential equations*
59. **O. Mul** (P): *Perturbation Theory Method for Analysis of Vibrations in Some Transmission Pipeline Systems*
60. **N. Nekhoroshev** (I): *Fuzzy fractional monodromy*
61. **L. Noethen** (D): *Nearly invariant sets*
62. **F. Oliveri** (I): *Differential equations characterized by Lie point symmetries*
63. **P. Olver** (USA): *Differential Invariant Algebras*
64. **O. Oxtoby** (ZA): *Moving solitons in the discrete nonlinear Schroedinger equation*
65. **F. Paparella** (I): *Asymptotic behavior of a rebounding ball*
66. **E. Perez-Chavela** (MX): *Periodic orbits for anisotropic perturbations of the Kepler problem*
67. **D. Pinheiro** (P): *Interaction of two charges in a uniform magnetic field*
68. **J. Pohjanpelto** (USA): *Differential Invariants for Lie Pseudogroups*
69. **A. Portaluri** (I): *No communication*
70. **B. Prinari** (I): *No communication*
71. **M. Procesi** (I): *Periodic solutions for nonlinear dispersive PDE's in $d >$ 1 spatial dimensions*
72. **G. Pucacco** (I): *Separation of variables on the hyperbolic plane*
73. **F. Pugliese** (I): *On a special class of Monge-Ampere equations*
74. **O. Ragnisco** (I): *Integrable models on curved space from q-algebras: equations of motion and their solution*

75. **G. Rastelli** (I): *Decomposition of scalar potentials of natural Hamiltonians into integrable and perturbative terms. A naive approach*
76. **S. Rauch** (S): *Separation of potential and quasi-potential Newton equations*
77. **O. Rojas** (AUS): *Closed form expression for integrals of sG map*
78. **A. Rutherford** (CAN): *Pseudorotational Spectra of Molecules and Isoparametric Geometry*
79. **G. Saccomandi** (I): *A general reduction method for finite amplitude elastic waves*
80. **V. Salnikov** (F): *The dynamics of the triple pendulum: various approaches to non-integrability*
81. **T. Salnikova** (RUS): *Periodic solutions of one variant of the bounded three-dimensional three-body problem*
82. **V. Samokhin** (RUS): *On deformations conserving a conservation law*
83. **J. Sanders** (NL): *An addition formula for nilpotent normal forms*
84. **P.M. Santini** (I): *The dispersionless Kadomtsev-Petviashvili equation: Cauchy problem, long-time behavior and wave breaking*
85. **G. Sartori** (I): *No communication*
86. **D. Saunders** (CZ): *Homogeneous Variational Systems*
87. **C. Scimiterna** (I): *Multiscale expansion of the lattice potential KdV and of its symmetries on functions of infinite order*
88. **F. Strazzullo** (USA): *Darboux Integrable Hyperbolic PDE's in the Plane of Generic Type*
89. **M.A. Teixeira** (BR): *Singularities of non-smooth dynamical systems*
90. **P. Tempesta** (I): *Formal groups, L-series and hyperfunctions*
91. **S. Terracini** (I): *Singularities and collisions of generalized solutions to the N–body problem*
92. **J. Tolksdorf** (D): *Dirac Type First Order Differential Operators as a Natural Square Root of Gravity and Yang-Mills Gauge Theories*
93. **E. Valdinoci** (I): *Periodic and quasiperiodic motions in the many body planetary problem*
94. **A. Vanderbauwhede** (B): *Continuation of doubly-symmetric solutions in reversible systems*
95. **P. van der Kamp** (AUS): *Towards Global Classifications: a Diophantine Approach*
96. **A. Venturelli** (F): *Globally Minimizing Parabolic Solutions for the Newtonian N-body Problem*
97. **F. Verhulst** (NL): *Emergence and break-up of invariant manifolds in a*

parametric PDE

98. **Raf. Vitolo** (I): *No communication*
99. **Ren. Vitolo** (I): *The Hopf-saddle-node bifurcation for fixed points of 3D-diffeomorphisms: a dynamical inventory*
100. **S. Walcher** (D): *The Michaelis-Menten equation and Murphy's law*
101. **P. Winternitz** (CAN): *Superintegrable systems in quantum mechanics*
102. **I. Yehorchenko** (UKR): *Relative Invariants of Lie Algebras: Construction and Applications*
103. **B. Zhilinskii** (F): *Generalization of Hamiltonian monodromy. Quantum manifestations*