CADE 2009 Programme

09:00-09:30: Registration
09:30-10:00: Opening session by the President of the State University of Navarre, Dr. Julio Lafuente
10:00-11:00: A. Bruno and V. Edneral: Integrability analysis of a polynomial system of ODEs near a degenerate stationary point
11:00-11:30: A.A. Gusev, O. Chuluunbaatar, V.P. Gerdt, B.L. Markovski, V.V. Serov and S.I. Vinitsky: Algorithm for reduction of boundary value problems in multistep adiabatic approximation
11:30-12:00: Coffee break. "Autoridades" Room. El Sario Building
12:00-12:30: A. Abad, R. Barrio, F. Blesa and M. Rodríguez: A Mathematica interface for the Taylor series method
12:30-13:00: A. Mylläri and S. Slavyanov: Painlevé type dynamical system generated by two Coulomb centers problem
13:00-13:30: O. Efimovskaya: Decomposition of the loop algebra over SO(4) and integrable models of the chiral equation type
13:30-15:00: Lunch. Restaurant Building

15:30-16:30: A. Abad and A. Elipe: Evolution strategies for computing periodic orbits
16:30-17:00: M. Lara and S. Ferrer: A very high order, Mathematica generated, Lie series solution to the rigid body motion
17:00-17:30: Coffee break. "Autoridades" Room. El Sario Building
17:30-18:00: J.F. Palacián and P. Yanguas: Computer algebra methods in transition state theory for high rank saddles
18:00-18:30: M. Sansottera: Towards stability results for planetary problems with more than three bodies

October, 29: Thursday morning. Room 04. El Sario Building. Chairman: Vladimir Gerdt
09:30-10:00: Registration
10:00-11:00: J.M. Ucha and F.J. Castro-Jiménez: Interesting examples of quasi free divisors
11:00-11:30: A. Lasaruk and T. Sturm: Approximate reduction of linear partial differential operators
11:30-12:00: Coffee break. "Autoridades" Room. El Sario Building
12:00-12:30: N. Vassiliev: Fast polynomial reduction
12:30-13:00: D. Stefanescu, V.P. Gerdt and S. Yevlakov: Numerical computation of bounds for positive roots
13:00-13:30: E. Roanes-Lozano, A. Hernando and L.M. Laita: Some reflections inspired by the design of a locomotive classification expert sytem
13:30-15:00: Lunch. Restaurant Building

October, 29: Thursday afternoon and evening
16:30-18:00: Visit to the Planetarium of Pamplona: projection of the movie "Evolution" (in English) and a walk around the sky.
18:00-20:30: Pamplona downtown: we shall visit some remarkable churches and historical buildings of the city.
20:30-22:30: Tapas tasting itinerary around the most emblematic bars of Pamplona.

October, 30: Friday morning. Room 06. El Sario Building. Chairman: Nikolay Vassiliev
09:30-10:00: Registration
10:00-11:00: V.P. Gerdt and Yu.A. Blinkov: On algorithmic consistency check for discretized PDEs
11:00-11:30: A.I. Zobnin: Differential polynomials and standard bases
11:30-12:00: Coffee break. "Autoridades" Room. El Sario Building
12:00-12:30: A. Mylläri, T. Mylläri, V. Rostovtsev and S. Vinitsky: Formal integral and caustics in generalised Contopoulos model
12:30-13:00: F. Crespo, G. Diaz, S. Ferrer and M. Lara: Poisson and symplectic normalization of 4-DOF
isotropic oscillators. The van der Waals family
13:00-13:30: **J.F. San Juan**: Analytical model for Lunar orbiter revisited

13:30-15:00: **Group Picture**: *El Sario Building Entrance. Lunch. Restaurant Building*

15:30-16:30: P. Acosta and **J.J. Morales-Ruiz**: A Galoisian approach to supersymmetric quantum mechanics
16:30-17:00: **V.P. Gerdt** and Yu.A. Blinkov: Symbolic-numeric study of finite difference schemes for Navier-Stokes equations
17:00-17:30: Coffee break. "Autoridades" Room. *El Sario Building*
17:30-18:00: **V.V. Kornyak**: Discrete dynamical models with quantum behaviour
18:00-18:30: Closing session and group picture

October, 30: Friday evening
21:00-23:30: Banquet dinner: Restaurant (cider house) Kaleangora, Tajonar Street, 29, to enjoy one of the most popular gastronomic traditions in Northern Navarre.

October, 31: Saturday
9:30-17:30: Day trip along St. James' way (*Camino de Santiago*) visiting the Romanesque architecture of Estella, Puente La Reina, Santa María de Eunate and the famous vineyards and wine cellars of *Señorio de Sarría* where we will have a wine tasting and a delicious meal.