## Session 12, Differential Galois Theory

### Wednesday 18, Room 308

15:30–16:00 **Model theory and differential Galois theory**
David Marker

16:00–16:30 **Principal invariant ideals for some polynomial derivations**
Andrzej Nowicki

16:30–17:00 **D-modules and irreducible plane curves**
Orlando Neto

18:00–18:30 **Connections on vector bundles, differential equations and Fuchs' relations**
Eduardo Corel

18:30–19:00 **Discussion**

### Thursday 19, Room 308

11:30–12:00 **A reduction for regular differential systems**
Manuel Bronstein

12:00–12:30 **On a characterization of the Painleve equations based on differential Galois theory of infinite dimension**
Hiroshi Umemura

12:30–13:00 **The multidimensional Jouanolou system**
Henryk Zoladek

13:00–13:30 **Lame differential operators with finite monodromy**
Razvan-Dinu Litcanu

15:30–16:00 **The differential Galois theory of strongly normal extensions**
Jerald Kovacic

16:00–16:30 **Differential Galois theory and integrability**
Juan José Morales Ruiz

16:30–17:00 **Application of a criterium for testing the non complete integrability of a hamiltonian system**
Delphine Boucher

17:30–18:00 **Non-integrability of the heavy top problem. A differential Galois approach**
Andrzej J. Maciejewski

18:00–18:30 **Discussion**

Friday 20, Room 308

10:30–11:00 **Inverse differential problems**
Claude Mitschi

11:00–11:30 **Invariant theory and Galois theory for $q$-difference equations**
Jean-Pierre Ramis

11:30–12:00 **Algebraic solutions of the Lamé equations**
Robert Maier

12:00–12:30 **The ring of all solutions of all linear differential equations and categorical duality**
Andy Magid

12:30–13:00 **Generic Picard-Vessiot extensions and examples**
Lourdes Juan

13:00–13:30 **Discussion**

Saturday 21, Room 308

09:30–10:00 **Picard-Vessiot theory in positive characteristic**
Anand Pillay

10:00–10:30 **Differential jet schemes for PDEs**
Thomas Scanlon

10:30–11:00 **Differential Galois realization of covers**
Zbigniew Hajto