



Fourth International Workshop on Differential Algebra and Related Topics

October 27-30, 2010, Beijing, China

<http://mmrc.iss.ac.cn/~dart4>



Call for Presentations and Registration

Based on the foundational works of Ritt and Kolchin since the 1930s, differential algebra has evolved into an extremely rich subject during the last two decades. Differential Algebra and Related Topics (DART) is a series of workshops which offer an opportunity for participants to present original research, to learn of research progress and new developments, and to exchange ideas and views on differential algebra and related topics. DART-IV is the fourth in this series. The previous three DARTs were held at Rutgers University at Newark, NJ (USA) in 2000, 2007 and 2008.

Topics: Algebraic differential and difference equations, Differential algebraic groups, Differential algebra and model theory, Differential and difference dimension theory, Differential and difference Galois theory, D-module theory and Riemann-Hilbert correspondence, Differential invariants, Exterior differential and integrable systems, Integro-differential operators and differential Rota-Baxter operators, Analysis, combinatorics and number theory related to differential algebra, Polynomial vector fields, Rota-Baxter algebra and applications, Computational differential and difference algebras (characteristic sets, closed-form solutions, factorization etc), Applications of differential and difference algebras (control theory, physics, chemistry, biology, etc).

Invited Speakers (confirmed)

Chengming Bai	Nankai Univ.	Fang Li	Zhejiang Univ.
Gloria Mari Beffa	Univ. Wisconsin-Madison	Jorge Martín-Morales	Univ. Zaragoza
Yuqun Chen	South China Normal Univ.	Alexander V. Mikhailov	Univ. Leeds
Lucia Di Vizio	Univ. Paris 7	Ned Nedialkov	McMaster Univ.
Charlotte Hardouin	Institut de math. Toulouse	Alexei Ovchinnikov	City Univ. New York
Mark van Hoeij	Florida State Univ.	Georg Regensburger	RICAM
Gabriela Jeronimo	Univ. Buenos Aires	Daniel Robertz	RWTH Aachen Univ.
Irina Kogan	North Carolina State Univ.	Ravi Srinivasan	Rutgers Univ.
François Lemaire	Univ. Lille 1, France	Sebastian Walcher	RWTH Aachen Univ.
Alexander Levin	Catholic Univ. America	Xiaoping Xu	AMSS, CAS
Jean Levine	École des Mines de Paris	Chunming Yuan	KLMM, CAS

Presentations

In addition to 50-minute and 25-minute talks, there will be sessions for poster presentations. If you would like to present a poster, please submit an abstract in PDF format of no more than two pages by **September 1, 2010**. Submission is via EasyChair at the web site <http://www.easychair.org/conferences/?conf=dart4>. The workshop will invite a limited number of the poster presenters to give 25-minute talks, and cover their local expenses (hotel rooms and registration fees). A decision on posters will be made by **September 15, 2010**.

Registration

Information on registration is available at <http://www.mmrc.iss.ac.cn/~dart4/registration.html>.

Organizers

Workshop Chair: Xiao-Shan Gao

Program Committee: Li Guo, Julia Hartmann, Evelyne Hubert, Ziming Li, François Ollivier, Michael Singer, William Sit

Local Arrangements: Ruyong Feng, Chunming Yuan

Sponsors

Academy of Mathematics and Systems Science, Chinese Society of Computer Mathematics, Institute of Systems Science
Key Lab of Mathematics Mechanization, National Natural Science Foundation of China