

THE KOLCHIN SEMINAR IN DIFFERENTIAL ALGEBRA
AT THE GRADUATE CENTER
OF THE CITY UNIVERSITY OF NEW YORK
FALL-2016
[HTTP://KSDA.CCNY.CUNY.EDU/GRADCENTER.HTML](http://ksda.cuny.edu/gradcenter.html)

Seventh International Workshop on Differential Algebra and Related Topics

Friday, September 30: Graduate Center, 4th Floor, Room 4102 (Science Center).

10:00-11:15 a.m.

Julia Hartmann, University of Pennsylvania

Differential Embedding Problems over Complex Function Fields

11:25-12:10 a.m.

Gal Binyamini, Weizmann Institute of Science

Density of Rational Points on Transcendental Varieties

1:30-2:15 p.m.

Omar Leon-Sanchez, McMaster University

Order Bounds and Kolchin Polynomials

2:25-3:10 p.m.

Michael Semenov-Tian-Shansky, Université de Bourgogne

Poisson Structure for Differential/Difference Lax Equations and Differential Galois Theory

3:40-4:25 p.m.

Richard Gustavson, Graduate Center (CUNY)

Differential Kernels and Bounds for the Consistency of Differential Equations

4:35-5:20 p.m.

Joel Nagloo, Bronx Community College (CUNY)

The Third Painlevé Transcendents Revisited

6:00 p.m.—Conference Dinner

Saturday, October 1: Hunter College, West Building

Lectures in Room HW 415, Refreshments and Posters, Room HW224.

10:00-11:15 a.m.

Andrei Gabrielov, Purdue University

Classification of Spherical and Circular Quadrilaterals

11:25-12:10 a.m.

Taylor Dupuy, The University of Vermont

Title: TBA

1:40-2:25 p.m.

Amador Martin-Pizarro, C.N.R.S. Institut Camille Jordan Lyon

On Bounded Automorphisms of Fields with Operators

2:35-3:40 p.m.

Poster Session and Break in Room HW224

3:50-4:35 p.m.

Emma Previato, Boston University

An Arithmetically Integrable System

4:45-5:30 p.m.

Georg Regensburger, Johannes Kepler University Linz

The Fundamental Theorem of Calculus in Differential Algebra

Sunday, October 2: Hunter College, West Building

Lectures in Room HW 615, Refreshments and Posters, Room HW605.

10:0011:15 a.m.

Victor Kac, Massachusetts Institute of Technology

The Method of Lambda Brackets in the Theory of Integrable (Bi)Hamiltonian PDE

11:2512:10 a.m.

Ekaterina Shemyakova, SUNY at New Paltz

Differential Operators on the Superline, Berezinians and Darboux Transformations

1:302:15 p.m.

Michael Wibmer, University of Pennsylvania

Torsors for Difference Algebraic Groups

2:353:20 p.m.

Andrei Minchenko, University of Vienna

Simple Differential Algebraic Lie Algebras

3:203:45 p.m.

Break, Room HW605

3:504:35 p.m.

Julien Roques, Institut Fourier, Université Grenoble Alpes, France

Hypergeometric Mirror Maps

Monday, October 3: Hunter College, West Building

Lectures in Room HW 615, Refreshments and Posters, Room HW605.

10:0011:15 a.m.

Alexandru Buium, University of New Mexico

Arithmetic Analogues of Isomonodromic Deformations

11:2512:10 a.m.

Carlos Arreche, North Carolina State University

Projectively Integrable Linear Difference Equations and Their Galois Groups

1:402:25 p.m.

Charlotte Hardouin, Institut de Mathématiques de Toulouse

Parametric Genericity of Special Functions

2:353:20 p.m.

James Freitag, University of Illinois at Chicago

Ranks in Differential Fields

3:203:45 p.m.

Break

3:504:25 p.m.

Wei Li, Academy of Mathematics and Systems Science, Chinese Academy of Sciences

Partial Differential Chow Forms and a Type of Partial Differential Chow Varieties

4:455:30 p.m.

Anand Pillay, Notre Dame University

Picard-Vessiot Closed Differential Fields and Constrained Cohomology

Tuesday, October 4: Graduate Center, 4th Floor, Room 4102 (Science Center).

10:00-11:15 a.m.

Tom Scanlon, University of California at Berkeley

Title: TBA

11:25-12:10 a.m.

Ruyong Feng, Academy of Mathematics and Systems Science, CAS

Parallel Telescoping

1:10-1:55 p.m.

Thomas Dreyfus, Université Lyon 1

Computing the Differential Galois Group Using Reduced Forms

2:05-2:50 p.m.

Gleb Pogudin, Johannes Kepler University, Linz

New Bounds for Effective Differential Nullstellensatz

2:50-3:10 p.m. Break

3:10-3:55 p.m.

Zoe Chatzidakis, CNRS/ENS

Definable Galois Theory in Difference Fields

4:05-4:50 p.m.

Uma Iyer, Bronx Community College (CUNY)

Representations of an Algebra of Quantum Differential Operators

DART VII

Program Committee:

- David Marker, University of Illinois at Chicago
- Alice Medvedev, The City College of New York (CUNY)
- Alexey Ovchinnikov, Queens College and The Graduate Center (CUNY)
- Michael F. Singer, North Carolina State University

Local Arrangements:

- Richard Churchill, Hunter College and The Graduate Center (CUNY)
- Alice Medvedev, The City College of New York (CUNY)
- Joel Nagloo, Bronx Community College, (CUNY)
- Alexey Ovchinnikov, Queens College and The Graduate Center (CUNY)

Website:

- Joel Nagloo, Bronx Community College, (CUNY)
- Peter Thompson, The Graduate Center (CUNY)

Registration is now open. Please visit the official DART VII website at

<http://fsw01.bcc.cuny.edu/joel.nagloo/DART7.html>

The KSDA organizing committee:

Joel Nagloo, Bronx Community College

Alexey Ovchinnikov, Queens College and The Graduate Center

Richard Churchill, Hunter College and The Graduate Center

Alice Medvedev and William Sit, CCNY

Phyllis Cassidy (ex-official), Smith College and CCNY

— Please Post —