

The Programme at the Häckers Grand Hotel

Sunday June 23: Arrival Day

18:00-20:00 Registration

Monday June 24:

08:00 – 08:50 Additional Registration Time

Opening

09:00 – 09:15 Norbert Euler Some words of welcome

Morning Session Chairperson: Maria Clara Nucci

09:15 – 10:00 Thanasis Fokas The beauty and power of the complex plane
10:00 – 10:35 Sandra Carillo Bäcklund transformations in Abelian and
non-Abelian nonlinear evolution equations

10:35 – 11:10 Rafael Hernández Heredero Formal diagonalisation of integrable systems

of evolution equations

Coffee Break 11:10 - 11:50

11:50 – 12:25 **Henrik Aratyn** Orbit method for obtaining rational special function solutions

of Painlevé V Hamilton equations

12:25 – 13:00 Robert Conte Common solutions to two Bianchi IX systems

Lunch Break 13:00–14:30

Afternoon Session Chairperson: Frank Nijhoff

14:30 – 15:05 **Kenji Kajiwara** Generation of Aesthetic Shapes by Integrable

Differential Geometry

15:05 – 15:40 **Jarmo Hietarinta** Solutions to the constant Yang-Baxter equation:

additive charge conservation in three dimensions

15:40 – 16:15 Giorgio Gubbiotti On a chain of Lie-Poisson coalgebras and their invariants

Welcome Reception: 16:15 – 17:30

Evening Session: Chairperson: Norbert Euler

An Evening of Science and Philosophy: 19:00 – 20:45

19:00 – 19:15 Oliver Krügel (Mayor) Words of welcome

19:15 – 20:00 Thanasis Fokas The two "big bangs" of our mental evolution

20:00 – 20:45 Adrian Constantin Geophysical flows and waves

Tuesday June 25:

Morning Session Chairperson: Kenji Kajiwara

09:00 – 9:45 Frank Nijhoff Lagrangian multiform structure of discrete,

semi-discrete and "generating" PDE type KP systems

09:45 – 10:20 **Derchyi Wu** Stability of KdV n-solitons

10:20 – 10:55 **Błażej Szablikowski** Non-autonomous deformations of integrable

soliton hierarchies

Coffee Break = 10:55 - 11:35

11:35 - 12:10 Maria Clara Nucci A review of two and three-dimensional superintegrable

systems that are linearized through hidden symmetries

12:10 – 12:45 Colin Rogers On Korteweg-de Vries and reciprocal moving

boundary problems

Lunch Break 12:45–14:15

Afternoon Session Chairperson: Wolfgang K. Schief

14:15 – 15:00 Arthemy Kiselev The (non)triviality problem for Kontsevich's

deformations of Nambu-Poisson brackets

15:00 – 15:35 **Jose F. Gomes** Integrable hierarchies, soliton solutions and infinite

 $dimensional\ algebras$

15:35 – 16:10 Masashi Hamanaka Solitons in 4d Wess-Zumino-Witten models –

Towards unification of integrable systems

Coffee Break 16:10 - 16:50

16:50 - 17:25 Maria L. Gandarias Symmetry multi-reduction for PDEs with invariant

 $conservation\ laws$

17:25 – 18:00 **Jen-Hsu Chang** Totally non-negative Pfaffian for solitons in BKP equation

Social Dinner 19:30 – 22:00 Lahnterrasse: Ristorante & Pizzeria (Wilhelmsallee 11, Bad Ems)

Wednesday June 26:

Morning Session

Discussions and Collaborations

11:00 – 12:30 **ISNMP Meeting** (members only)

Lunch Break 13:00- 14:30

Excursion

14:30	Bus departures from Bad Ems Main Train Station.
15:00	Bus arrives at $Deutsches\ Eck$ in Koblenz.
15:30 - 17:00	English Guided Tour of the Koblenz Old Town $(Altstadt)$
17:00	Guided Tour ends at $Deutsches\ Eck$
17:00 - 19:00	Your free time in Koblenz
19:00	Bus departures from Deutsches Eck
19:30	Bus arrives in Bad Ems: end of excursion

Thursday June 27:

Morning Session Chairperson: Sandra Carillo

09:45 – 10:20 Ralph Willox Singularities and growth of higher order discrete equations

10:20 – 10:55 Irina Bobrova Affine Weyl groups and non-abelian discrete systems

Coffee Break 10:55 - 11:35

11:35 – 12:20 Wolfgang K. Schief The differential geometry of the multi-dimensionally

consistent TED equation

12:20 – 13:00 Roman Kozlov Lagrangian formalism and Noether-type theorems for

second-order delay ordinary differential equations

Lunch Break 13:00- 14:30

Afternoon Session Chairperson: Da-Jun Zhang

14:30 – 15:15 Krzysztof Marciniak	Algebraic curves as a source of separable
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multi-Hamiltonian systems

15:15 – 15:50 Maciej Błaszak From Stäckel systems to Painlevé hierarchies

15:50 – 16:25 Anouchah Latifi Wind-wave interaction in finite depth: linear and

nonlinear approaches, blow-up and soliton breaking

in finite time, integrability perspectives

16:25 – 17:00 **Huimin Yin** Stability of doubly periodic patterns by using

Floquet analysis

Coffee Break 17:00 - 17:40

PhD Students Session Chairperson: Thomas Wolf

17:40 - 1	18:05	Aroonima Sahoo	Linear control system on Lie sur	peraroun

and its controllability

18:05 – 18:30 Tofan Khunitia Kumar Isoclinism and relative central extensions

of a pair of Lie superalgebras

18:30 – 18:55 Pavel Drozdov The two-photon coalgebra symmetry and

discrete-time systems in quasi-standard form

On Open Access Publishing Chairperson: Norbert Euler

18:55 – 19:30 Raphaël Tournoy Episciences overlay journals and their place in the open access landscape

Friday June 28:

Morning Session Chairperson: Rafael Hernández Heredero

09:00 - 9:35	Thomas Wolf	Exact Solitary Wave Solutions for
		$a\ Coupled\ gKdV\text{-}NLS\ System$
09:35 - 10:10	Nobuyuki Sawado	Long-lived vortices in a sheared flow of the intermediate geostrophic regime
10:10 - 10:45	Kouichi Toda	Traveling wave solutions for a static version of the Zakharov-Kuznetsov equation via the Painlevé analysis

 $Coffee\ Break \qquad 10:45-11:25$

11:25 - 12:00	Maria C. Muriel	First integrals and C^{∞} -structures for ordinary
		$differential\ equations$
12:00 - 12:35	Adrian Ruiz	On the calculation of exact solutions to a family of general Liénard equations

Lunch Break 13:10- 14:30

12:35 – 13:10 **Stephen Anco**

Afternoon Session Chairperson: Concepcion Muriel

14:30 – 15:05 Xiao-Chuan Liu	On dynamics of solitary waves solutions for the generalized Camassa-Holm equation
15:05 – 15:40 Ruoxia Yao	Supersymmetries of a new supersymmetric dispersionless system and the classifications
15:40 – 16:15 M & N Euler	Fully-nonlinear evolution equations: the Schwarzian derivative, recursion operators and integrability

Properties and applications of adjoint-symmetries

Auf Wiedersehen!

16:15 Norbert Euler Some short closing statements

Saturday June 29: Departure Day