

Programme: ISNMP Conference 2026

Häcker's Grand Hotel, Bad Ems, 28 June - 4 July 2026

The Abstracts of the Talks are in the **Book of Abstracts** on the conference website:
<https://isnmp.de/ISNMP-Conferences/ISNMP-2026/>

Sunday 28 June: Arrival Day

18:00 - 21:00: **Registration** at the Häcker's Grand Hotel.

Monday 29 June:

08:00 - 08:50: **Registration** at the Häcker's Grand Hotel.

08:50 - 09:00: **Opening** of the Conference: President of the ISNMP, **Norbert Euler**.

Chairperson: Marianna Euler [birth name: **Marianna W. Fushchych**]

09:00 - 09:45: **R. Popovych**, In memory of Wilhelm Fushchych.

Classical symmetry analysis of differential equations revisited.

09:45 - 10:30: **F. Nijhoff**, A dedication to Jarmo Hietarinta on his 80th.

Lattice Gel'fand-Dikii mappings and the associative Yang-Baxter equation.

Coffee Break: 10:30 - 11:15

Chairperson: R. Hernández Heredero

11:15 - 11:50: **J. Hietarinta**, *Integrability paradigm inspired by the Yang-Baxter equation*

11:50 - 12:25: **M.C. Nucci**, *On symmetries of differential equations*

12:25 - 13:00: **R. Conte**, *Lagrangian Bonnet surfaces in \mathbb{CP}^2*

Lunch Break: 13:00 - 14:30

Chairperson: H. Aratyn

14:30 - 15:05: **S. Carillo**, *Bäcklund transformations and non-linear soliton equations: some recent results*

15:05 - 15:40: **I. Tsyfra**, *On application of nonpoint symmetry reduction method to nonlinear evolutionary and wave type equations*

15:40 - 16:15: **V. Vladimirov**, *Soliton-like solutions supported by refined hydrodynamic-type model of an elastic medium with soft inclusions*

Coffee Break: 16:15 - 17:00**Chairperson: M.C. Nucci**17:00 - 17:35: **D-J Zhang**, *The GLM equation and direct linearisation structure related to the Lamé function*17:35 - 18:10: **Y. Jikumaru**, *On the governing equations of membrane O surfaces*18:10 - 18:45: **A.J. Pan-Collantes**, *Exact integration of nonlinear PDEs via C^∞ -structures*18:45 - 19:10: **N. Euler**, *On sequences of fully-nonlinear and quasilinear evolution equations***Tuesday 30 June:****Chairperson: S. Carillo**09:00 - 09:35: **R. Willox**, *A peculiar nonautonomous form of the Lyness mapping*09:35 - 10:10: **W.K. Schief**, *The differential geometry of the (modified⁽²⁾) Korteweg-de Vries equation and associated Miura transformations*10:10 - 10:45: **M. Vermeeren**, *Symplectic operators and Lagrangian multiforms for bi-Hamiltonian systems***Coffee Break: 10:45 - 11:30****Chairperson: W.K. Schief**11:30 - 12:05: **R. Hernández Heredero**, *Advances in the formal diagonalisation of systems of evolution equations*12:05 - 12:40: **R. Delgado López**, *A Mathematica package for the symmetry approach to integrability*12:40 - 13:15: **F. Zullo**, *The integrable Volterra system and its super-integrability***Lunch Break: 13:15 - 14:45****Chairperson: M. Vermeeren**14:45 - 15:20: **L.A. Ferreira**, *The hidden symmetries of Yang-Mills theory in $(3 + 1)$ -dimensions*15:20 - 15:55: **A. Kiselev**, *Wronskians over multidimension: From $\mathfrak{sl}(2)$ to (in)finite-dimensional polynomial homotopy Lie algebras*15:55 - 16:30: **J.F. Gomes**, *New solitonic solutions for higher grading integrable hierarchies***Coffee Break: 16:30 - 17:15**

Chairperson: B. Szablikowski

17:15 - 17:50: **M.L. Gandarias**, *A dissipative Westervelt's equation: symmetry analysis and hidden variational structure*

17:50 - 18:25: **S. Zhao**, *Direct linearization and bilinear structure of a fourth order lattice Gel'fand-Dikii equation*

18:25 - 19:00: **R. Yao**, *Novel existence conjectures and unified constraints for higher-order peakons/pseudo peakons in generalized J-K-CH equations*

ISNMP Meeting: 21:30 - 22:15

Wednesday 1 July:

Chairperson: F. Zullo

09:00 - 09:35: **A. Dzhamay**, *Discrete Painlevé equations with constraints: their geometry and symmetry*

09:35 - 10:10: **H. Aratyn**, *Volterra lattices and solutions of symmetric Painlevé IV equations*

10:10 - 10:45: **L. Delisle**, *A vector Hirota bilinear framework for integrable systems*

Coffee Break: 10:45 - 11:30

Chairperson: R. Kozlov

11:30 - 12:05: **K. Marciniak**, *Pencils of Novikov algebras of Stäckel type and soliton hierarchies*

12:05 - 12:40: **B. Szablikowski**, *Non-autonomous finite-dimensional restrictions of soliton hierarchies and Painlevé type systems*

12:40 - 13:15: **F. Leyvraz**, *The "goldfish" equations of motion for infinitely many particles*

Lunch Break: 13:15 - 14:45

Chairperson: R. Thibes

14:45 - 15:20: **S. Anco**, *Integrable systems on AKNS Lie algebras*

15:20 - 15:55: **R. Vitolo**, *Bi-Hamiltonian systems from homogeneous operators*

Short Break: 15:55 - 16:05

16:05 - 16:40: **I. Bobrova**, *On a non-commutative q-PVI system*

16:40 - 17:15: **R. Kozlov**, *Conservation properties of mean field games equations*

Social Dinner: 19:00 - 22:00

We will meet 18:15 at Häcker's for a **group photo** and then jointly walk to *Alt Ems*.

Thursday 2 July:

Open Problems Session [15 min presentations in alphabetical order]

Chairperson: Norbert Euler

08:30 - 08:45: **S. Anco**, *Symmetries and Conservation Laws of PDEs*

08:45 - 09:00: **R. Conte**, *Open problem: discretize Gauss-Codazzi equations*

09:00 - 09:15: **A. Dzhamay**, *Discrete Painlevé equations: what next?*

09:15 - 09:30: **L.A. Ferreira**, *Is there a dressing transformation method for Yang-Mills theory?*

Short Break: 09:30 - 09:40

09:40 - 09:55: **J.F. Gomes**, *Periodic solutions for integrable hierarchies*

09:55 - 10:10: **J. Hietarinta**, *Open search problems*

10:10 - 10:25: **A.V. Kiselev**, *The alternated composition of $N = 2p$ differential operators $w_j(x) \partial_x^p$ yields the weights' Wronskian with which constant?*

Coffee Break: 10:25 - 11:10

11:10 - 11:25: **K. Marciniak**, *Geometry of integrable systems defined by curves other than hyper-elliptic ones*

11:25 - 11:40: **F. Nijhoff**, *Do Integrable Systems have a future?*

11:40 - 11:55: **R. Popovych**, *Open problems of symmetry analysis of differential equations*

Short Break: 11:55 - 12:05

12:05 - 12:20: **R. Vitolo**, *Some open problems in Hamiltonian PDEs*

12:20 - 12:35: **R. Willox**, *On some crucial (but potentially difficult...) open problems to do with higher order birational mappings*

12:35 - 12:50: **D-J. Zhang**, *Algebraic structures of the vertex operators of elliptic solitons*

Lunch Break: 12:50 - 14:00

Excursion: 14:00 - 19:00

We will meet at the **Bad Ems train station**, where the bus will be waiting for us at 14:00.

Friday 3 July:

Chairperson: I. Tsyfra

09:00 - 09:35: **M. Nesterenko**, *Contractions of Lie algebras and their realizations*

09:35 - 10:10: **R. Thibes**, *Time-dependent trapped plasma nonlinear dynamics*

10:10 - 10:45: **M. Gorgone**, *Substitution principles in ideal gas dynamics and magneto gas dynamics derived as conditional symmetries*

Coffee Break: 10:45 - 11:30

Chairperson: C. Gilson

11:30 - 12:05: **P. Padmanabhan**, *An algebraic understanding of Hietarinta's 4×4 constant Yang-Baxter solutions*

12:05 - 12:40: **Y. Shi**, *Matrix Darboux transformations for discrete integrable systems*

12:40 - 13:15: **X-B. Hu**, *Some studies on integrable integro-differential equations involving the Hilbert operator*

Lunch Break: 13:15 - 14:45

Chairperson: V. Vladimirov

14:45 - 15:20: **A. Shchekkin**, *Refined Painlevé/gauge theory correspondence*

15:20 - 15:55: **C. Gilson**, *Darboux Transformations, Quasi-determinants and the Sasa-Satsuma equation*

15:55 - 16:30: **A.A. Singh**, *Geometric Lagrangian one-forms and Hitchin systems*

Coffee Break: 16:30 - 17:45

Student Session [20 min presentations in alphabetical order]:

Chairperson: M. Nesterenko

17:45 - 18:05: **A. Castejón Sánchez**, *Exact traveling waves for a damped wave equation*

18:05 - 18:25: **B. De la Flor**, *General parametric solution of a third-order system of ODEs arising in classification of integrable systems*

18:25 - 18:45: **Ş. Gönül**, *Lie symmetries, reductions and exact solutions of a $(2 + 1)$ -dimensional Boussinesq equation with arbitrary nonlinearity*

18:45 - 19:05: **X. Luo**, *Classification of KdV-type Bi-Hamiltonian systems*

Closing: 19:05

Saturday 4 July: Departure Day