

MATHINFO CONFERENCE

8-12 September, 2025

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-9:30	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:30-10:30		Plenary: Balogh Zoltán (Bern, Chair: Alexandru Kristály), Jan Draisma (Bern, Chair: Bernd Sturmfels)	Excursion (Sovata-Corund-Odorhei-Sighișoara)	Plenary: Matteo Muratori (Milan, Chair: Paolo Salani), Antonio Lerario (Trieste, Chair: Sandra DiRocco)	Plenary: Simon Telen (Leipzig, Chair: Jan Draisma)
10:30-10:45		Coffee Break/ SPRINGER EXHIBITION		Coffee Break/ SPRINGER EXHIBITION	Coffee Break
10:45-11:20	Registration	Parallel Sessions (C)		Parallel Sessions (E)	Parallel Sessions (G)
11:20-12:30	Opening Ceremony+ Plenary 1: Bernd Sturmfels (Leipzig, Chair: Laurențiu Maxim) -114 Room				
12:30-14:30	Lunch Break				
15:00-16:00	Parallel Sessions (A) (14:30-16:00)	Plenary: Paolo Salani (Milan, Chair: Zoltán Balogh), Sandra DiRocco (Stockholm, Chair: Antonio Lerario)		Plenary: Laurențiu Maxim (Wisconsin, Chair: Simon Telen)	Sightseeing
16:00-16:30	Coffee Break	Coffee Break		Coffee Break	
16:30-18:00	Parallel Sessions (B)	Parallel Sessions (D)		Parallel Sessions (F)	
19:00-	Dinner	Dinner	Gala Dinner-Haller Castel, Marosugra/Ogra	Dinner/Goulash cooking at open fire and Transylvanian Beer tasting	Dinner
	Watching Israel-Italy football game (114 room)/Board game night	Watching Hungary-Portugal football game (114 room)/ Board game night			



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8-12 September, 2025

Program Mathematics

September 8th, Monday

8:00-9:30 Breakfast

9:30-10:30

10:45-11:20 Registration

11:20-11:30 Opening Ceremony (Csaba Farkas & Emil Horobeț)

11:30-12:20 **Plenary Talk** (Chair: Laurențiu Maxim) - Room 114

Bernd Sturmfels: The Likelihood Correspondence

12:20-12:30 Discussion

12:30-14:30 Lunch Break

Session (A)

14:30-16:00 Distance and critical points in algebra and geometry section (Room 230)

Chair: Dirk Siersma

14:30-15:00 **Isaac Ren:** Morse theory of distance functions between algebraic varieties

15:00-15:10 Discussion

15:15-15:45 **Luca Sodomaco:** Higher-order Osculating Eigenvectors of Symmetric Tensors

15:45-15:55 Discussion

16:00-16:30 Coffee Break

Session (B)

16:30-18:00 Distance and critical points in algebra and geometry section (Room 230)

Chair: Rob Eggermont

16:30-17:00 **Mátyás Domokos:** Separating invariants for real representations of abelian groups

17:00-17:10 Discussion

17:15-17:45 **Barna Scheffler:** Computing degree bounds for separating invariants of actions of finite groups

17:45-17:55 Discussion

16:30-18:00 Distance and critical points in analysis and PDEs section (Room 231)

Chair: Rodica Lung

16:30-17:00 **István Fazekas:** Convergence rate for the longest at most T-contaminated runs of heads

17:00-17:10 Discussion



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Program Mathematics

September 9th, Tuesday

8:00-9:30 Breakfast

9:30-10:30 Plenary Talks

Jan Draisma: The space of monoid preorders (Chair: Bernd Sturmfels) - 230 Room

Zoltán Balogh: LSI via OMT and curvature (Chair: Alexandru Kristály) - 231 Room

10:30-11:00 Coffee Break / Springer Exhibition

Session (C)

11:00-12:30 Distance and critical points in algebra and geometry section (Room 230)

Chair: Erin Connelly

11:00-11:30 Valerian Fodor: Inverse Images of Relative Interiors through Metric Projections in Hilbert Spaces

11:30-11:40 Discussion

11:45-12:15 Khazhgali Kozhasov: Minimal Euclidean Distance degree of Segre-Veronese varieties

12:15-12:25 Discussion

11:00-12:30 Distance and critical points in geometric analysis section (Room 231)

Chair: Zoltán Makó

11:00-11:30 Alexandru Kristály: Sharp Sobolev inequalities on Riemannian manifolds with nonnegative Ricci curvature

11:30-11:40 Discussion

11:45-12:15 László Flórián: A family of network evolution models with moderate density

12:15-12:25 Discussion

12:30-14:30 Lunch Break

15:00-16:00 Plenary Talks

Sandra DiRocco: Higher order Data Loci (Chair: Antonio Lerario) - 230 Room

Paolo Salani: Concavity Properties of solutions to Elliptic PDEs and related inequalities (Chair: Zoltán Balogh) - 231 Room

16:00-16:30 Coffee Break

SPRINGER NATURE GROUP



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8-12 September, 2025

Program Mathematics

September 9th, Tuesday

Session (D)

16:30-18:00 Distance and critical points in algebra and geometry section (Room 230)

Chair: Luca Sodomaco

16:30-17:00 Giacomo Maletto: Varieties whose generic affine normal space is normal to more than one point

17:00-17:10 Discussion

17:15-17:45 Emil Horobet: The generalization of modern portfolio theory in the context of parametric polynomial systems

17:45-17:55 Discussion

16:30-18:00 Distance and critical points in geometric analysis section (Room 231)

Chair: István Fazekas

16:30-17:00 Rodica Lung: Identifying Fat-Tailed Distributions: Methods and Insights

17:00-17:10 Discussion

17:15-17:45 Zoltán Makó: The general form of intuitionistic fuzzy preference-homogeneous value functions

17:45-17:55 Discussion



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Program Mathematics

September 11th, Thursday

8:00-9:30 Breakfast

9:30-10:30 Plenary Talks

Antonio Lerario: Testing the Variety Hypothesis (Chair: Sandra DiRocco) - 230 Room

Matteo Muratori: Rigidity results and qualitative properties for solutions of the Lane-Emden equation on Cartan-Hadamard (model) manifolds (Chair: Paolo Salani - 231 Room

10:30-11:00 Coffee Break / Springer Exhibition

Session (E)

11:00-12:30 Distance and critical points in algebra and geometry section (Room 230)

Chair: Nidhi Kaihnsa

11:00-11:30 Carles Checa: An effective criterion for multiple positive solutions of vertically parametrized polynomial systems

11:30-11:40 Discussion

11:45-12:15 Máté Telek: Copositive geometry and positive A-discriminants

12:15-12:25 Discussion

11:00-12:30 Distance and critical points in geometric analysis section (Room 231)

Chair: Matteo Muratori

11:00-11:30 Zsolt Darvay: Predictor-corrector interior-point algorithm with two different classes of algebraically equivalent transformations

11:30-11:40 Discussion

11:45-12:15 Petra Renáta Rigó: Parabolic target space interior-point algorithm for monotone linear complementarity problems

12:15-12:25 Discussion

12:30-14:30 Lunch Break

15:00-16:00 Plenary Talk

Laurențiu Maxim: Linear optimization on varieties and Chern-Mather classes
(Chair: Simon Telen) - 230 Room

16:00-16:30 Coffee Break

SPRINGER NATURE GROUP



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Program Mathematics

September 11th, Thursday

Session (F)

16:30-18:00 Distance and critical points in algebra and geometry section (Room 230)

Chair: Cornel Pinte

16:30-17:00 Nidhi Kaihnsa: Optimisation in Polyhedral Norms

17:00-17:10 Discussion

17:15-17:45 Dirk Siersma: Distance and critical points on PL-manifolds

17:45-17:55 Discussion

16:30-18:00 Distance and critical points in geometric analysis section (Room 231)

Chair: Csaba Farkas

16:30-17:00 József Kolumbán: Estimating the convex relaxation of the ideal magnetohydrodynamics equations

17:00-17:10 Discussion

17:15-17:45 Sándor Kajántó: Sharp Hardy-type inequalities on special irreversible Finsler manifolds

17:45-17:55 Discussion



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Program Mathematics

September 12th, Friday

8:00-9:30 Breakfast

9:30-10:30 Plenary Talk (Chair: Jan Draisma) - Room 230

Simon Telen: Euler stratifications of hypersurface families

Session (G)

11:00-12:30 Distance and critical points in algebra and geometry section (Room 230)

Chair: Emil Horobeț

11:00-11:30 Miklós Pintér: Maximal complete algebras

11:30-11:40 Discussion

11:45-12:15 Botond Miklósi: On degenerations of matrix tuples

12:15-12:25 Discussion

12:30-14:30 Lunch Break