

Sunday morning: Big lecture room

Plenary lectures

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|---------------|--------------------|--|
| 9:00 – 9:10 | | <i>Opening</i> |
| 9:10 – 10:00 | R. Gover | Compactification, boundary calculus, and applications I. |
| 10:10 – 11:00 | A. Waldron | Singular Volume Problems and Contact Quantum Mechanics I. |
| 11:10 – 12:00 | P. Teichner | An integer-valued Kontsevich integral - Goodwillie/Weiss approximations to the space of knots I. |

Sunday afternoon: Big lecture room

16:00 – 16:25	Z. Dušek	Wrong steps in Finsler geometry related to homogeneous geodesics
16:30 – 16:55	T. Salač	Monogenic hull and twistor theory
17:00 – 17:25	M. Fischmann	Recent developments on conformal symmetry breaking operators
17:30 – 18:00	I. Khavkine	Explicit triangular decoupling of vector and tensor mode equation on Schwarzschild

Sunday afternoon: Small lecture room

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| 16:00 – 16:20 | K. Farnsworth | Weyl vs. Conformal Invariance in Quantum Field Theory |
| 16:25 – 16:45 | R. Lipinski-Jusinkas | Ambitwistor strings in the pure spinor formalism |
| 16:50 – 17:20 | K. Bering | Independence of gauge-fixing in higher order BV formalism |
| 17:30 – 18:00 | J. Tolar | On Clifford groups in quantum computing |

Monday morning: Big lecture room

Plenary lectures

- 9:00 – 9:50 **D. Fiorenza** T-duality in rational homotopy theory I.
- 10:00 – 10:50 **P. Teichner** An integer-valued Kontsevich integral - Goodwillie/Weiss approximations to the space II.
- 11:00 – 11:50 **M. Grigoriev** Gauge invariant PDE, AKSZ sigma models, and higher spin fields I.

Monday afternoon: Big lecture room

- 16:15 – 16:55 **L. Zalabová** Local geometric control of a certain mechanism with growth vector $(4,7)$
- 17:00 – 17:30 **V. Žádník** Recent advances in conformal theory of null curves
- 17:35 – 18:00 **T. Willse** Sasaki-Einstein metrics and their compactifications via projective geometry

Monday afternoon: Small lecture room

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|---------------|--------------------|---|
| 16:15 – 16:45 | R. Kycia | Topological analysis of nuclear pasta phases |
| 16:50 – 17:10 | F. Farakos | New D-term uplift |
| 17:15 – 17:35 | E. Latini | Quantum Principal bundle |
| 17:40 – 18:00 | R. von Unge | SUSY Yang-Mills theory in projective superspace |

Tuesday morning: Big lecture room

Plenary lectures

- 9:00 – 9:50 **A. Waldron** Singular Volume Problems and Contact Quantum Mechanics II.
- 10:00 – 10:50 **P. Teichner** An integer-valued Kontsevich integral - Goodwillie/Weiss approximations to the space of knots III.
- 11:00 – 11:50 **R. Gover** Compactification, boundary calculus, and applications II.

Tuesday afternoon: Big lecture room

Plenary lectures

- 15:45 – 16:20 **B. Doubrov** Singular varieties and abnormal extremals of parabolic geometries
- 16:25 – 17:05 **P. Panžič** Dirac cohomology for modules over quantum $\mathfrak{sl}(2)$
- 17:10 – 17:50 **A. Čap** Canonical Cartan connections associated to filtered G-structures
- 17:55 – 18:20 **J. Slovák** Constant curvature models in subriemannian geometries

Tuesday afternoon: Small lecture room

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|---------------|------------------------|--|
| 15:45 – 16:05 | O. Hulík | Toda theory, $\text{AdS}_3/\text{CFT}_2$ and chiral coupling of particles |
| 16:10 – 16:30 | J. Vosmera | $\hat{\mathfrak{u}}(1)$ -breaking branes for $c = 2$ free bosons from minimal models |
| 16:35 – 17:00 | J. Pulmann | Kontsevich integral for a non-even associator and cabling |
| 17:05 – 17:35 | J. Vysoký | Poisson-Lie T-duality revisited: Language of Courant algebroids |
| 17:40 – 18:00 | G. Chadzitaskos | Generalization of Shmushkevich method for collisions of particles |

Wednesday afternoon: Big lecture room

Plenary lectures

- 16:00 – 16:50 **P. Sułkowski** Physics of knots – from Chern-Simons theory to quivers I.
- 17:00 – 17:50 **M. Grigoriev** Gauge invariant PDE, AKSZ sigma models, and higher spin fields II.
- 18:00 – 18:50 **D. Fiorenza** T-duality in rational homotopy theory II.

Thursday morning: Big lecture room

Plenary lectures

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|---------------|---------------------|---|
| 9:00 – 9:50 | R. Gover | Compactification, boundary calculus, and applications III. |
| 10:00 – 10:50 | A. Waldron | Singular Volume Problems and Contact Quantum Mechanics III. |
| 11:00 – 11:50 | P. Sułkowski | Physics of knots – from Chern-Simons theory to quivers II. |

Thursday afternoon: Big lecture room

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|---------------|----------------------|---|
| 15:45 – 16:10 | S. Kim | Standard embedding of smooth Schubert varieties in rational homogeneous manifolds of Picard number 1 |
| 16:15 – 16:40 | J. Gregorovič | Models of 2-nondegenerate CR manifolds |
| 16:45 – 17:05 | M. Reiter | Local rigidity of holomorphic maps of real manifolds |
| 17:15 – 17:35 | I. Kossovskiy | A normal form for 2-nondegenerate hypersurfaces |
| 17:40 – 18:00 | R. Golovko | The wrapped Fukaya category of a Weinstein manifold is generated by the cocores of the critical Weinstein handles |

Thursday afternoon: Small lecture room

- 15:45 – 16:05 **A. Zuevsky** Foliation of VOA/Riemann surface space by VOA characters
- 16:10 – 16:35 **F. Wierstra** Hopf invariants in real and rational homotopy theory
- 16:40 – 17:05 **L. Peksová** Properads and homotopy algebras related to surfaces
- 17:15 – 17:35 **T. Lada** An L_∞ -example revisited
- 17:40 – 18:00 **M. Schnabl** $SU(2)$ -symmetry of the ghost vertex

Friday morning: Big lecture room

Plenary lectures

- 9:00 – 9:50 **M. Grigoriev** Gauge invariant PDE, AKSZ sigma models, and higher spin fields III.
- 10:00 – 10:50 **P. Sułkowski** Physics of knots – from Chern-Simons theory to quivers III.
- 11:00 – 11:50 **D. Fiorenza** T-duality in rational homotopy theory III.

Friday afternoon: Big lecture room

- 16:00 – 16:20 **K. Sagerschnig** Marked contact twisted cubic structures
- 16:25 – 17:00 **I. Zelenko** On geometry of 2-nondegenerate CR structures of hypersurface type via bigraded Tanaka prolongation
- 17:05 – 17:25 **V. Tuček** BGG-sequences for infinite dimensional representations
- 17:30 – 18:00 **P. Zima** Killing equations on Riemannian spaces of constant curvature
- 18:05 – 18:30 **R. Lávička** Separation of variables for polynomials

Friday afternoon: Small lecture room

- 16:00 – 16:20 **L. Krump** Finer decomposition of Baston quaterionic complexes
- 16:25 – 16:45 **T. Rusin** On the cup-length of the oriented Grassmann manifold and the characteristic rank of its canonical bundle
- 16:50 – 17:10 **P. Kočí** Matter coupling to higher spin supermultiplets
- 17:15 – 17:35 **A. Kotov** Free Cartan-Lie algebroids
- 17:40 – 17:55 **J. Novák** Coupled scalar perturbations of Galileon cosmologies in the mechanical approach in the late Universe
- 18:00 – 18:20 **H.V. Le** Frölicher-Nijenhuis bracket and derived invariants of Riemannian manifolds provided with a parallel form of even degree