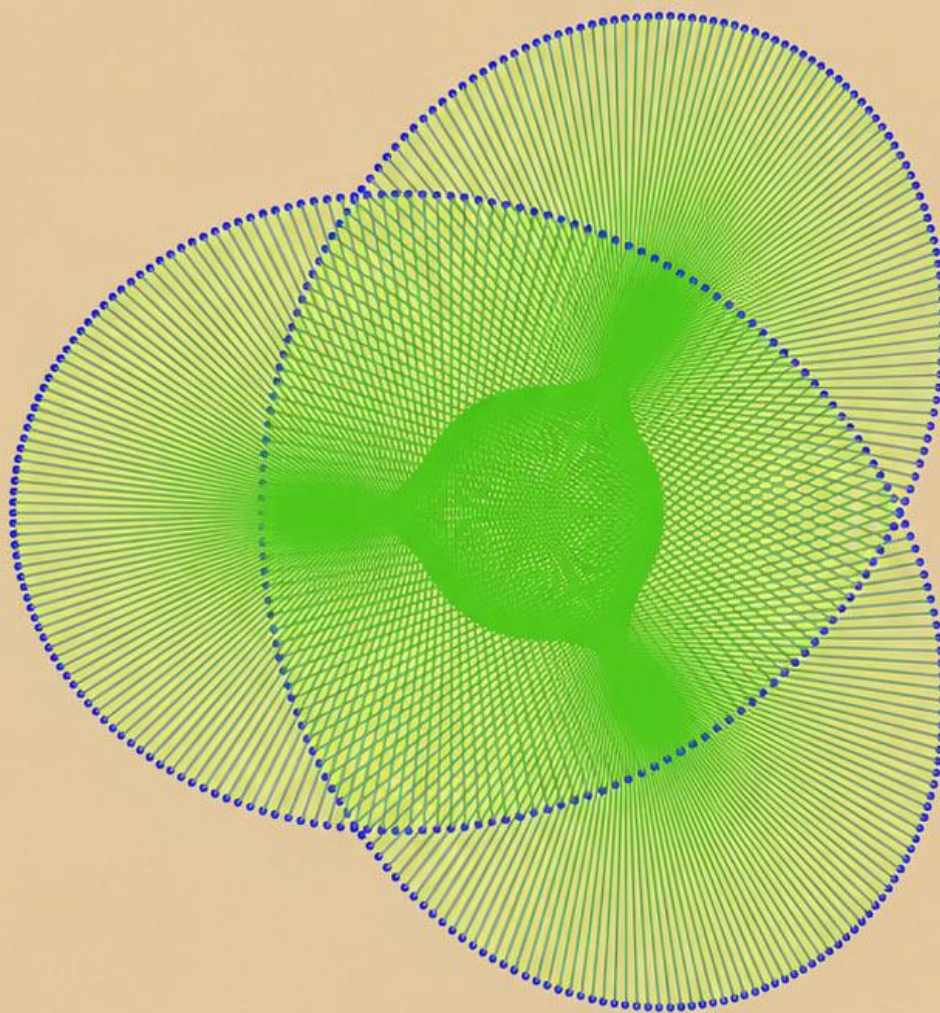


XXIII

Geometrical seminar



CONFERENCE PROGRAM



Zlatibor, 30.8. - 5.9.2026.

XXIII Geometrical Seminar

Zlatibor, 30 August – 5 September 2026

CONFERENCE PROGRAM

Organized by



Faculty of
Mathematics
Belgrade, Serbia



Faculty of Science
Kragujevac, Serbia



Faculty of Sciences
and Mathematics,
Niš, Serbia



Mathematical
Institute,
Belgrade, Serbia

Sponsors



Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ



Monday, August 31, 2026

$7^{30} - 9^{00}$		REGISTRATION
$9^{00} - 9^{20}$		OPENING CEREMONY
$9^{20} - 10^{00}$		COCKTAIL
CHAIR	Lj. Velimirović	ROOM 1
$10^{00} - 10^{30}$	D. Alekseevsky	Clifford Modules, Associated Homogeneous Geometry and their Applications
$10^{35} - 11^{05}$	H. Fan	Novikov type Landau-Ginzburg model
$11^{10} - 11^{40}$	A. Vesnin	Three-variable transcendental invariant of planar knotoids
$11^{45} - 12^{15}$	S. Ivanov	Spin(7) manifolds, instanton curvature and parallel torsion
$12^{20} - 12^{50}$	M. Mateljević	Schwarz lemma for harmonic maps and minimal surfaces
$12^{55} - 14^{55}$		LUNCH BREAK
CHAIR	M. Mateljević	ROOM 1
$15^{00} - 15^{30}$	Y. Nikonorov	Properties of plane angles of tetrahedra with a given base
$15^{35} - 16^{05}$	A. Ivanov	Minimal Fillings of Finite Metric Spaces
$16^{10} - 16^{40}$	E. Kudryavtseva	Symplectic classification of parabolic singularities and cuspidal tori in integrable Hamiltonian systems
CHAIR	I. Gogić	ROOM 2
$15^{00} - 15^{30}$	A. Lavrov	Noncompact homogeneous Einstein spaces and extended Poincare algebras
$15^{35} - 15^{55}$	N. Vesić	Geometrical invariants of thin structure deformation
$16^{00} - 16^{20}$	K. Lukić	Noncommutative integrability in cosymplectic geometry
$16^{25} - 16^{45}$	Đ. Kocić	Hypersurfaces of the sphere $S^6(1)$ with four-dimensional nullity distribution
$16^{40} - 17^{10}$		Coffee break
CHAIR	B. Jovanović	ROOM 1
$17^{10} - 17^{30}$	A. Šubert	Canonical form of the inertia tensor of a rigid body in pseudo-Euclidean space and on the Lobachevsky plane
$17^{35} - 18^{05}$	N. Šešum	Four dimensional ancient solutions asymptotic to a bubble sheet
$18^{10} - 18^{40}$	V. Dragović	Chebyshev dynamics, isoharmonic deformations, and constrained Schlesinger systems
$18^{45} - 19^{15}$	L. Kauffman	Strict Equivalence of Multi-Virtual Linkoids
$19^{20} - 19^{50}$	M. Stojanović	Cone-type triangulations of hypercube
CHAIR	C.L. Bejan	ROOM 2
$17^{10} - 17^{30}$	N. Vesić	On the Role of Riemannian Spaces in the Invariant Theory of Riemannian and Symmetric Affine Connection Spaces
$17^{35} - 17^{55}$	V. Milenković	Invariant geometric objects of special types of mappings of generalized Riemannian spaces
$18^{00} - 18^{20}$	M. Pavlović	Classification of the geodesic curves of a sub-Riemannian LR system on the Heisenberg group in dimension 5
$18^{25} - 18^{45}$	A.U. Corapli	On Hypersurfaces Admitting Generalized Solitons in Riemannian Warped Products
$18^{50} - 19^{10}$	B. Cindik	Special Curvature Tensors in Four-Dimensional Manifolds of Neutral Signature
$19^{30} - 21^{00}$		DINNER

Tuesday, September 1, 2026

CHAIR	S. Ivanov	ROOM 1
$8^{30} - 9^{00}$	D. Millionschikov	Combinatorics of universal enveloping Lie algebras and some geometrical problems
$9^{05} - 9^{35}$	N. Ivanov	On the Quantum Phase Operator
$9^{40} - 10^{10}$	A. Mihai	Special Vector Fields: Torqued and Anti-Torqued
$10^{15} - 10^{45}$	B. Dragović	A Universe with Hybrid Nonlocality
$10^{45} - 11^{15}$		Coffee break
CHAIR	B. Dragović	
$11^{15} - 11^{45}$	I. Dimitrijević	A simple model of nonlocal de Sitter gravity $\sqrt{dS}$
$11^{50} - 12^{20}$	N. Dj. Lazarov	The basic functions of three dimensions of FRLW metric
$12^{25} - 12^{55}$	S. Terzić	Smooth manifolds in $G_{n,2}$ and $G_{n,2} / T^n$ assigned to the canonical T^n - action
$13^{00} - 13^{30}$	M. Stošić	New advancements in knot and 3-manifold invariants
$13^{35} - 14^{55}$		LUNCH BREAK
CHAIR	F. Popelensky	ROOM 1
$15^{00} - 15^{30}$	C.L. Bejan	Submanifolds of Codimension 2 of Paracosymplectic Manifolds with Normal Reeb Vector Field
$15^{35} - 16^{05}$	A. Petkov	The Almost Schur Lemma and the Positivity Conditions in Quaternionic Contact Geometry
$16^{10} - 16^{40}$	S. E. Meric	On Ricci-Yamabe Solitons
CHAIR	M. Đorić	ROOM 2
$15^{00} - 15^{30}$	I. Gogić	Nonlinear Preserver Problems on Matrix Domains
$15^{35} - 16^{05}$	M. Radovanović	Topological complexity of oriented Grassmann manifolds
$16^{10} - 16^{40}$	N. Guseva	Conformal Fedosov structures on compact Riemannian spaces with non-positive sectional curvature
$16^{40} - 17^{10}$		Coffee break
CHAIR	M. Stanković	ROOM 1
$17^{10} - 17^{40}$	M. D. Türkoğlu	A Hyperbolic Optimization Paradigm for Orbital Transfers: Integrating Riemannian Geometry and Machine Learning
$17^{45} - 18^{15}$	P. Peška	Non-Existence of Conformal Fedosov Structures on Roter Type Manifolds
$18^{20} - 18^{50}$	I. Hinterleitner	Formula for the lengths of the height and edges of a right-angled (n+1)-hedron
$18^{55} - 19^{25}$	M. Maksimović	Concircularly semi-symmetric metric connection and application to Lorentzian manifolds
$19^{30} - 21^{00}$		DINNER

Wednesday, September 2, 2026

$9^{30} - 18^{30}$

E X C U R S I O N

Thursday, September 3, 2026

CHAIR	Z. Rakić	ROOM 1
$8^{30} - 9^{00}$	Y. Nikolayevsky	Killing tensors on symmetric spaces
$9^{05} - 9^{35}$	A. Tuzhilin	Continuous Gromov-Hausdorff distance
$9^{40} - 10^{10}$	I. Taimanov	Central extensions of Lie algebras, dynamical systems, and symplectic nilmanifolds
$10^{15} - 10^{45}$	A. Mironov	Billiard trajectories inside cones
$10^{45} - 11^{15}$		Coffee break
CHAIR	M. Zlatanović	
$11^{15} - 11^{45}$	V. Rovenski	Geometry of a weak metric structures and their applications
$11^{50} - 12^{20}$	V. Milousheva	Canonical Parameters on Timelike Surfaces in pseudo-Euclidean 4-spaces
$12^{25} - 12^{55}$	H. Yildirim	$\delta\#(2, 2)$ -ideal hypersurfaces of dimension 4 in centroaffine differential geometry
$13^{00} - 13^{30}$	I. Nikonov	Multicrossing homology and secant classes
$13^{30} - 14^{55}$		LUNCH BREAK
CHAIR	V. Rovenski	ROOM 1
$15^{00} - 15^{30}$	E. Fominkyh	Minimal ideal triangulations of 3-manifolds
$15^{35} - 16^{05}$	R. Deszcz	Some pseudosymmetry type curvature conditions
$16^{10} - 16^{40}$	D. Ilyutko	Some classification of oriented graph-links
$16^{45} - 17^{15}$	H. Adams	Gromov-Hausdorff distances, Borsuk-Ulam theorems, and Vietoris-Rips complexes
$17^{15} - 17^{45}$		Coffee break
CHAIR	I. Nikonov	ROOM 1
$17^{45} - 18^{05}$	E. Abdullaev	Pointed Gromov-Hausdorff distance between $\mathbb{A}^p$ -wedge sums of metric spaces
$18^{10} - 18^{30}$	D. Iliukhin	A problem of intersection of balls in normed space
$18^{35} - 18^{55}$	I. Mikhailov	Gromov-Hausdorff distances between unbounded metric spaces
$19^{00} - 19^{20}$	A. Vikhorov	Modifications of the continuous Gromov-Hausdorff distance
$20^{00} - 23^{00}$		CONFERENCE DINNER

Friday, September 4, 2026

CHAIR	D. Alekseevsky	ROOM 1
8³⁰ – 9⁰⁰	B. Jovanović	C^1 and C^0 Hamiltonian systems
9⁰⁵ – 9³⁵	B. Gajić	Higher-dimensional generalizations of the heavy rigid body motion with gyroscope
9⁴⁰ – 10¹⁰	F. Popelensky	Integrable billiards and refraction
10¹⁵ – 10⁴⁵	I. Limonchenko	Neighborly Murai spheres and the Simplicial Steinitz Problem
10⁴⁵ – 11¹⁵		Coffee break
CHAIR	M. Antić	ROOM 1
11¹⁵ – 11⁴⁵	K. Trenčevski	Research on geometry of gravitation by distinguishing the spatial and temporal part of spherically metric
11⁵⁰ – 12²⁰	J. Mikeš	Geodesic mappings and their generalizations "on whole"
12²⁵ – 12⁵⁵	Z. Dušek	Geodesic orbit Finsler metrics
13⁰⁰ – 13³⁰	M. Stanković	Equitorsion Holomorphically Projective Mappings of Generalized Kaehler Spaces of the First, Second, and Third Kind
13³⁰ – 14⁵⁵		LUNCH BREAK
CHAIR	B. Gajić	ROOM 1
15⁰⁰ – 15³⁰	S. Bogaty	Restoring a compact using its exponent
15³⁵ – 16⁰⁵	G. Nosovsky	Image Sharpening Improvement via the Geometrical Coding Approach
16¹⁰ – 16⁴⁰	S. Vukmirović	On geometry of screw motion
CHAIR	Z. Dušek	ROOM 2
15⁰⁰ – 15³⁰	S. Stepanov	A Curvature-Dependent Inequality Between Dirichlet Energy and Bienergy with Rigidity
15³⁵ – 16⁰⁵	T. Arias-Marko	Symmetric-like properties and the Laplace-Beltrami operator on Riemannian manifolds
16¹⁰ – 16⁴⁰	J. Stojanov	Computing Tensor Logarithmic Norm: Explicit Forms and Spectral Properties
16⁴⁰ – 17¹⁰		Coffee break
CHAIR	S. Stepanov	ROOM 1
17¹⁰ – 17⁴⁰	M. Najdanović	Geometric Properties of Infinitesimally Deformed Dual Curves
17⁴⁵ – 18⁰⁵	M. Krstić	Banach Space Geometry, c_0 and ℓ^1 in Operator-Valued Integration
18¹⁰ – 18³⁰	A. Velimirović	Generalized Riemannian Geometry: An Application to Generative AI
18³⁵ – 18⁵⁵	M. Stefanović	Half-Symmetric Connections of Generalized Riemannian Spaces
19⁰⁰ – 19²⁰		CLOSING CEREMONY
19³⁰ – 21⁰⁰		DINNER

Saturday, September 5, 2026.

9³⁰ –14⁰⁰		
		DEPARATURE DAY

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