



XIX GEOMETRICAL SEMINAR

August 28 - September 4, 2016, Zlatibor, Serbia

PROGRAM

Monday, August 29, 2016.

7 ³⁰ - 9 ⁰⁰		Registration
9 ⁰⁰ - 9 ²⁰		Opening ceremony
9 ²⁰ - 10 ⁰⁰		Cocktail
CHAIR	M. Petrović-Torgašev	ROOM 1
10 ⁰⁰ - 11 ⁰⁰	Lj. Velimirović, E. Molnar, K. Matsumoto, R. Deszcz	The Memories of Professor Mileva Prvanović
CHAIR	S. Nikčević	ROOM 1
11 ⁰⁰ - 11 ³⁰	A. Mishchenko	Homotopy invariants of manifolds: Poincare duality and the signature formulae
11 ³⁵ - 12 ⁰⁵	L. Vrancken	Lagrangian submanifolds in the homogeneous nearly Kaehler $S^3 \times S^3$ with constant sectional curvature
12 ¹⁰ - 12 ⁴⁰	M. Pontecorvo	Bi-Hermitian metrics on Kato surfaces
12 ⁴⁵ - 13 ¹⁵	M. Mateljević	Interior estimates for Poisson type inequality and qc hyperbolic harmonic mappings
13 ¹⁵ - 14 ⁵⁵		LUNCH BREAK
CHAIR	E. Molnar	ROOM 1
15 ⁰⁰ - 15 ³⁰	N. Abiev	On evolution of positively curved invariant Riemannian metrics on special Wallach spaces
15 ³⁵ - 16 ⁰⁵	Z. Dušek	Transformations between Singer-Thorpe bases in 4-dimensional Einstein manifolds
16 ¹⁰ - 16 ⁴⁰	P. Bibikov	On classification problems in theory of differential equations: algebra + geometry
16 ⁴⁰ - 17 ¹⁰		Coffee break
CHAIR	L. Vrancken	ROOM 1
17 ¹⁰ - 17 ⁴⁰	J. Mikeš	On geodesic mappings
17 ⁴⁵ - 18 ⁰⁵	M. Moruz	Lagrangian submanifolds in the nearly Kaehler $S^3 \times S^3$ from minimal surfaces in S^3
18 ¹⁰ - 18 ³⁰	B. Bektas	Lagrangian submanifolds with constant angle functions in the nearly Kaehler $S^3 \times S^3$

CHAIR	H. Yildirim	ROOM 1
18 ⁴⁰ - 19 ⁰⁰	R. Mirzaei	Polar actions on manifolds of nonpositive curvature
19 ⁰⁰ - 19 ²⁰	P. Peska	On holomorphically projective mappings of parabolic Kahler manifolds
19 ²⁰ - 19 ⁴⁰	A. Šebeković	On generalized Wintgen ideal Legendrian submanifolds
CHAIR	A. Mironov	ROOM 2
15 ⁰⁰ - 15 ³⁰	E. Beltaos	Integrality of NIM-reps
15 ³⁵ - 16 ⁰⁵	I. Limonchenko	2-truncated cubes and their toric spaces
16 ¹⁰ - 16 ⁴⁰	W. Dai	Asymptotic stability of combination of contact waves with rarefaction waves for one-dimensional radiative hydrodynamic systems
		Coffee break
CHAIR	Dj. Baralić	ROOM 2
17 ¹⁰ - 17 ⁴⁰	Lj. Radović	Families of plaited polyhedra as knots and links
17 ⁴⁵ - 18 ⁰⁵	D. Govc	An approximate nerve theorem
18 ³⁵ - 18 ⁵⁵	V. Kibkalo	Topology of isoenergy surfaces for Kovalevskaya integrable case on Lie algebra $so(4)$
CHAIR	V. Andrejić	ROOM 2

$18^{40}-19^{00}$	D. Gorodkov	A 15-vertex triangulation of the quaternionic projective plane
$19^{00}-19^{20}$	M. Bjelica	Distribution of flows on edges of a hypercube
$19^{30}-23^{00}$		WELCOMING PARTY

Tuesday, August 30, 2016.

CHAIR	I. Taimanov	ROOM 1
9 ⁰⁰ -9 ³⁰	K. Polthier	Differential-based geometry modeling and processing of meshes
9 ³⁵ -10 ⁰⁵	T. Panov	Polyhedral products and commutator subgroups of right-angled Artin and Coxeter groups
10 ¹⁰ -10 ⁴⁰	V. Dragović	Algebro-geometric approach to Painleve VI equation, Schlesinger systems, and Poncelet Polygons
10 ⁴⁰ -11 ¹⁰		Coffee break
CHAIR	R. Deszcz	
11 ¹⁰ -11 ⁴⁰	O. Kowalski	Some systems of nonlinear PDE which are soluble in closed form
11 ⁴⁵ -12 ¹⁵	B. Opozda	Cauchy-Kowalevski's theorem applied for counting geometric structures
12 ²⁰ -12 ⁵⁰	R. Živaljević	Bier Complexes
12 ⁵⁵ -14 ⁵⁵		LUNCH BREAK
CHAIR	V. Balashchenko	ROOM 1
15 ⁰⁰ -15 ³⁰	K. Matsumoto	A new curvaturelike tensor field in an almost contact Riemannian manifold II
15 ³⁵ -16 ⁰⁵	N. C. Turgay	Some classification results on biconservative hypersurface in pseudo-Euclidean spaces
16 ¹⁰ -16 ⁴⁰	C.-L. Bejan	Para H-projective transformations
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR	Lj. Velimirović	ROOM 1
17 ¹⁰ -17 ⁴⁰	V. Andrejić	On Lorentzian spaces of constant sectional curvatures
17 ⁴⁵ -18 ⁰⁵	I. Hinterleitner	On the existence of pre-semigeodesic coordinates
18 ¹⁰ -18 ³⁰	M. Najdanović	Infinitesimal deformations of subspaces of generalized Riemannian spaces
CHAIR	S. Vukmirović	ROOM 1
18 ⁴⁰ -19 ⁰⁰	E. Nešović	Siacci's and the areal basis resolution of the acceleration vector for a space curve in Minkowski 3-space
19 ⁰⁰ -19 ²⁰	S. Guler	On warped product manifolds satisfying Ricci-Hessian class type equations
19 ²⁰ -19 ⁴⁰	N. Vesić	Generalized Bochner tensor/Some relations between generalizations of Weyl projective tensor
CHAIR	A. Vesnin	ROOM 2
15 ⁰⁰ -15 ³⁰	A. Koshelev	Geometries in non-local gravity
15 ³⁵ -16 ⁰⁵	I. Gogić	Two-sided multiplications and phantom line bundle
16 ¹⁰ -16 ⁴⁰	Dj. Baralić	Quasitoric manifolds and small covers over neighborly polytopes
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR	B. Dragović	ROOM 2
17 ¹⁰ -17 ⁴⁰	S. Nikolaienko	Topology of non-compact integrable Hamiltonian systems: first steps
17 ⁴⁵ -18 ⁰⁵	J. Stanković	Nonlocal modification of the Einstein theory of gravity
18 ¹⁰ -18 ³⁰	I. Dimitrijević	Nonsingular Big Bang solutions in nonlocal modified gravity
CHAIR	R. Živaljević	ROOM 2
18 ⁴⁰ -19 ⁰⁰	L. Lampret	Hochschild (co)homology of exterior algebras using algebraic Morse theory
19 ⁰⁰ -19 ²⁰	J. Nikolić	The moduli space of psuedo holomorphic disks with jumping Lagrangian boundary conditions

Wednesday, August 31, 2016.

9⁰⁰-19⁰⁰	EXCURSION

Thursday, September 1, 2016.

CHAIR	A. Mishchenko	ROOM 1
9 ⁰⁰ -9 ³⁰	A. Vesnin	On complexity and Turaev-Viro invariants of 3-manifolds
9 ³⁵ -10 ⁰⁵	G. Hall	Sectional curvature in 4-dimensional manifolds
10 ¹⁰ -10 ⁴⁰	S. Ivanov	Solution of the qc Yamabe equation on a 3-Sasakian manifold and extremals of the Sobolev-Folland-Stein inequality on the quaternionic Heisenberg group
10 ⁴⁰ -11 ¹⁰		Coffee break
CHAIR	V. Rovenski	
11 ¹⁰ – 11 ⁴⁰	R. Deszcz	Curvature properties of some class of warped product manifolds
11 ⁴⁵ - 12 ¹⁵	D. Millionshchikov	Integrable complex structures on nilpotent Lie algebras
12 ²⁰ -12 ⁵⁰	E. Molnar	Top dense ball packings and coverings in hyperbolic space
12 ⁵⁵ – 14 ⁵⁵		LUNCH BREAK
CHAIR	B. Opozda	ROOM 1
15 ⁰⁰ -15 ³⁰	Y. Maeda	Geometry of loop spaces
15 ³⁵ -16 ⁰⁵	Lj. Velimirović	Note on infinitesimal bending of knots
16 ¹⁰ -16 ⁴⁰	D. Ilyutko	Chord diagrams: framings, operations and maps
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR	M. Brozos-Vázquez	ROOM 1
17 ¹⁰ -17 ⁴⁰	R. M. Pacheco	Surfaces in \mathbb{R}^7 obtained from harmonic maps in S^6
17 ⁴⁵ -18 ⁰⁵	W. Goemans	Double rotational surfaces in Euclidean 4-space
18 ¹⁰ -18 ³⁰	M. Stojanović	Upgrading the axiomatic system to n-dimensional space
CHAIR	N. C. Turgay	ROOM 1
18 ⁴⁰ -19 ⁰⁰	M. Abdelmalek	Transversal hypersurfaces in weighted manifolds
19 ⁰⁰ -19 ²⁰	A. Pantić	On Deszcz symmetries of generalised Wintgen ideal Lagrangian submanifolds
19 ²⁰ -19 ⁴⁰	F. Malek	On quasi contact metric manifolds
CHAIR	M. Mateljević	ROOM 2
15 ⁰⁰ -15 ³⁰	G. Nosovski	Geometrical coding of digital images
15 ³⁵ -16 ⁰⁵	B. Gajić	Precession of four-dimensional rigid body motion
16 ¹⁰ -16 ⁴⁰	M. Knežević	Some remarks to the theorem of Wan for HQC mappings
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR	G. Nosovski	ROOM 2
17 ¹⁰ -17 ⁴⁰	A. Chekunov	The Computer Modeling of Gluing Flat Images Algorithms
17 ⁴⁵ -18 ⁰⁵	J. Stojanov	Spectral Cartan analysis of anisotropic structures based on Garner-type dynamicses
18 ¹⁰ -18 ³⁰	E. Vilkul	The geometry of iterations defined on subsets of measure metric space and its applications to the tumor spread problem

CHAIR	M. Knežević	ROOM 2
18⁴⁰-19⁰⁰	M. Svetlik	Isoperimetric inequality and related problems
19⁰⁰-19²⁰	A. Yavuz Taşcı	A note on Schwarz lemma for harmonic quasi-conformal mappings

Friday, September 2, 2016.

CHAIR	D. Millionshchikov	ROOM 1
9 ⁰⁰ -9 ³⁰	I. Taimanov	The Moutard transformation of two-dimensional Dirac operators and the Mobius geometry
9 ³⁵ -10 ⁰⁵	Y. Nikolayevsky	H-contact unit tangent sphere bundles
10 ¹⁰ -10 ⁴⁰	A. Tuzhilin	Geometry of Gromov-Hausdorff space and optimal networks
10 ⁴⁰ -11 ¹⁰		Coffee break
CHAIR	G. Hall	
11 ¹⁰ - 11 ⁴⁰	M. Brozos-Vázquez	Half conformally flat gradient Ricci almost solitons in higher signature
11 ⁴⁵ - 12 ¹⁵	A. Mironov	Angular billiard and algebraic birkhoff conjecture
12 ²⁰ -12 ⁵⁰	V. Rovenski	The Einstein-Hilbert type action on foliated metric-affine manifolds
12 ⁵⁵ - 14 ⁵⁵		LUNCH BREAK
CHAIR	L. Vrancken	ROOM 1
15 ⁰⁰ -15 ³⁰	S. Stepanov	Liouville type theorems for Riemannian twisted and warped products
15 ³⁵ -16 ⁰⁵	T. Šukilović	Classification of the left-invariant metrics on RH^n
16 ¹⁰ -16 ⁴⁰	H. Yildirim	Some results on conformally flat almost contact metric manifolds
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR	K. Matsumoto	ROOM 1
17 ¹⁰ -17 ⁴⁰	B. Kirik	An investigation of symmetric and skew-symmetric recurrent tensors of second order on 4-dimensional manifolds
17 ⁴⁵ -18 ⁰⁵	M. Glogowska	Hypersurfaces in space forms satisfying some curvature conditions
18 ¹⁰ -18 ³⁰	M. D. Turkoglu	On the existence of a new connection on a Weyl manifold
CHAIR	M. Stanković	ROOM 1
18 ⁴⁰ -19 ⁰⁰	M. Petrović	On almost geodesic mappings of the second type between manifolds with non-symmetric linear connection
19 ⁰⁰ -19 ²⁰	P. Mutlu	Bochner curvature tensor of locally conformal Kaehler space forms
19 ²⁰ -19 ⁴⁰	E. Bayram	Surface family with a common natural geodesic lift of a timelike curve in Minkowski 3-space
CHAIR	T. Panov	ROOM 2
15 ⁰⁰ -15 ³⁰	V. Grujić	Quasisymmetric function invariant of graphs
15 ³⁵ -16 ⁰⁵	D. Gugin	The proof of Blagojevic-Grujic-Zivaljevic conjecture on symmetric products of compact Riemann surfaces with punctures
16 ¹⁰ -16 ⁴⁰	I. Rudskiy	Categorical description of plant morphogenesis
		Coffee break
CHAIR	Y. Maeda	ROOM 2
17 ¹⁰ -17 ⁴⁰	P. Stanimirović	Solving indefinite least-squares problem using generalized inverses and recurrent neural network
17 ⁴⁵ -18 ⁰⁵	Y. Veryovkin	Pontryagin algebras of some moment-angle complexes
18 ¹⁰ -18 ³⁰	M. Tuzhilin	Qualitative behavior of integrable Hamiltonian systems in a neighbourhood of the saddle-saddle point
CHAIR	V. Grujić	ROOM 2
18 ⁴⁰ -19 ⁰⁰	A. Malakhov	On Lie problem and differential invariants for subgroups of the plane Cremona group
19 ⁰⁰ -19 ²⁰	R. Raymond	A Nahm transform between G2-monopoles and 5-dimensional Instantons
20 ⁰⁰ - 24 ⁰⁰		FARAWELL PARTY

Saturday, September 3, 2016.

CHAIR	M. Đorić	ROOM 1
9⁰⁰-9³⁰	B. Dragović	Ultrametric spaces and their applications
9³⁵-10⁰⁵	S. Terzić	Geometric formality of manifolds in small dimensions
10¹⁰-10⁴⁰	V. Balashchenko	The geometry of left-invariant structures on nilpotent Lie groups
10⁴⁰-11¹⁰		Coffee break
CHAIR	Z. Rakić	
11¹⁰ – 11⁴⁰	M. I. Munteanu	Magnetic maps
11⁴⁵ - 12¹⁵	T. Popelensky	Toda conjecture mod p>3
12²⁰ -12⁵⁰	B. Jovanović	Singular motion of a symmetric Manakov top
12⁵⁵ – 14⁵⁵		LUNCH BREAK