



XVII GEOMETRICAL SEMINAR

September 3-8, 2012, Zlatibor, Serbia

PROGRAM

Monday, September 3, 2012.

7 – 8³⁰		Registration
8³⁰ - 9⁴⁰		Opening ceremony
9⁴⁵ - 10¹⁵		Cocktail
CHAIR	A. Tuzhilin	
10²⁰ – 10⁵⁰	P. Gilkey	Homogeneous 4-dimensional Kaehler-Weyl structures
10⁵⁵ – 11²⁵	L. Vrancken	Almost complex surfaces in the nearly Kaehler $S^3 \times S^3$
11³⁰ – 12⁰⁰	M. Pontecorvo	On a question of Vaisman concerning complex surfaces
12⁰⁵ – 12³⁵	M. Mateljević	On harmonic quasiconformal quasi-isometries with respect to quasi-hyperbolic and Euclidean metrics
12⁴⁰ – 14⁵⁵		LUNCH BREAK
CHAIR		ROOM 1
15⁰⁰-15³⁰	M. Antić	Affine hypersurfaces with warped product structure
15³⁵-16⁰⁵	M. Radnović	Confocal quadratics in pseudo-Euclidean space
16¹⁰-16⁴⁰	S. Jablan	Unknotting and ascending numbers of knots and their families
16⁴⁰-17¹⁰		Coffee break
CHAIR		ROOM 1
17¹⁰-17⁴⁰	S. Minčić	On curvature tensors and Ricci type identities in manifolds with non-symmetric affine connection
17⁴⁵-18¹⁵	S. Stepanov	Tachibana, Killing and planar r-numbers
18²⁰-18⁵⁰	J. Mikeš	Geodesic and holomorphically projective mappings
CHAIR		ROOM 1
19⁰⁰-19¹⁵	A. De	Contact CR-warped product submanifolds of a quasi-sasakian manifold
19²⁰-19³⁵	I. Tastan	On special spacetimes
CHAIR		ROOM 2
15⁰⁰-15³⁰	F. Toppan	Critical scaling dimension for D-module reps of N=4,5,7 superconformal algebras and constraints on superconformal mechanics
15³⁵-16⁰⁵	E. Belaatos	Fixed points and D-branes
16¹⁰-16⁴⁰	E. Kudryavtseva	The topology of spaces of functions with prescribed singularities on surfaces
		Coffee break
CHAIR		ROOM 2
17¹⁰-17⁴⁰	B. Gajić	On integrability of Kirchhoff and Chaplygin cases of Kirchhoff equations
17⁴⁵-18¹⁵	Z. Dušek	The existence of light-like homogeneous geodesics
18²⁰-18⁵⁰	I. Kozlov	The topology of Liouville foliation for the Kovalevskaya integrable case on the Lie algebra so(4)
CHAIR		ROOM 2
19⁰⁰-19¹⁵	Lj. Radović	Mirror-curve codes for knots and links
19²⁰-19³⁵	Dj. Baralić	Generalized Steiner's and Kirkmans's Points of Pascal's Mystic Hexagram
20⁰⁰ – 22⁰⁰		D I N N E R

Tuesday, September 4, 2012.

CHAIR	B. Jovanović	
9 ⁰⁰ -9 ³⁰	V. M. Buchstaber	Symplectic nilmanifolds and applications
9 ³⁵ -10 ⁰⁵	S. Terzić	Combinatorial structure of Grassmann manifolds stratification
10 ¹⁰ -10 ⁴⁰	D. Millionshchikov	Variety of nilpotent Lie algebras and symplectic structures
10 ⁴⁰ -11 ¹⁰		Coffee break
CHAIR	D. Blair	
11 ¹⁰ - 11 ⁴⁰	O. Kowalski	On curvature-homogeneous spaces of type (1,3)
11 ⁴⁵ - 12 ¹⁵	R. Deszcz	On quasi-Einstein manifolds
12 ²⁰ - 12 ⁵⁰	U. C. De	On almost pseudo conformally symmetric manifolds with applications to relativity
12 ⁵⁵ - 14 ⁵⁵		LUNCH BREAK
CHAIR		ROOM 1
15 ⁰⁰ -15 ³⁰	M. Okumura	On definitions of certain submanifolds of complex manifold
15 ³⁵ -16 ⁰⁵	K. Matsumoto	Twisted product CR-submanifolds in a locally conformal Kaehler manifold
16 ¹⁰ -16 ⁴⁰	Y. Matsuyama	Curvature pinching for complete totally real submanifolds of a complex projective space
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR		ROOM 1
17 ¹⁰ -17 ⁴⁰	V. Andrejić	Duality principle and special Osserman manifolds
17 ⁴⁵ -18 ¹⁵	A. V. Cadarella	The curvature of Lorentzian S- manifolds with an Osserman-type condition
18 ²⁰ -18 ⁵⁰	D. Ilyutko	Extremal networks in normed planes and Maxwell formula
CHAIR		ROOM 1
19 ⁰⁰ -19 ¹⁵	M. Čirić	On geodesic mappings and geodesic deformations of generalised Riemannian spaces
19 ²⁰ -19 ³⁵	K. Panagiotidou	Results on three-dimensional real hypersurfaces of complex space form
19 ⁴⁰ -19 ⁴⁵	I. Hinterleitner	On holomorphically projective mappings
CHAIR		ROOM 2
15 ⁰⁰ -15 ³⁰	T. Popelensky	TBA
15 ³⁵ -16 ⁰⁵	T. Popov	Homotopy commutative algebra and 2-nilpotent Lie algebra
16 ¹⁰ -16 ⁴⁰	I. Rudskiy	Representation of the cellular architecture of plants as a space with free group action
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR		ROOM 2
17 ¹⁰ -17 ⁴⁰	K. Trenčevski	On the osculating spaces of submanifolds in Euclidean spaces
17 ⁴⁵ -18 ¹⁵	R. Pacheco	Harmonic maps of finite uniton number into G ₂
18 ²⁰ -18 ⁵⁰	K. R. Stevanović-Hedrih	Angular velocities and accelerations of the basic vector of a kinetic position vector tangent space in different curvilinear coordinate systems
CHAIR		ROOM 2
19 ⁰⁰ -19 ¹⁵	B. Prvulović	Vector fields on Grassmann manifolds
19 ²⁰ -19 ³⁵	M. Knežević	A note on Schwarz lemma for harmonic quasi-conformal mappings
20 ⁰⁰ - 22 ⁰⁰		DINNER

Wednesday, September 5, 2012.

CHAIR	B-Y. Chen	
8⁴⁵-9¹⁵	D. E. Blair	<i>D</i> -homothetic warping
9²⁰-9⁵⁰	B. Opozda	Bochner Weitzenbock formulas for connections compatible with metric tensor fields
9⁵⁵-10²⁵	E. Garcia-Rio	Local rigidity of symplectic pairs and four-dimensional generalized symmetric spaces
10³⁰-11⁰⁰		Coffee break
CHAIR	D. Millionshchikov	
11⁰⁰ – 11³⁰	B. Dragovich	On geometry in modern cosmology
11³⁵ - 12⁰⁵	G. Hall	Some remarks on Weyls conformal and projective tensors
12¹⁰ -12⁴⁰	E. Hullet	Spacelike surfaces, their Gauss lifts and one-parameter deformations
12⁴⁵ – 14		LUNCH BREAK
14¹⁰ – 20⁰⁰		E X C U R S I O N

Thursday, September 6, 2012.

CHAIR	E. Garcia-Rio	
9⁰⁰-9³⁰	Y. Nikolayevsky	Conformal relatives of symmetric spaces
9³⁵-10⁰⁵	V. Balashchenko	Invariant structures and distributions on homogeneous k-symmetric spaces
10¹⁰-10⁴⁰	A. M. Naveira	Some geometric properties of certain naturally reductive homogeneous spaces derived through curvature
10⁴⁰-11¹⁰		Coffee break
CHAIR	B. Opozda	
11¹⁰-11⁴⁰	A. A. Tuzhilin	One-dimensional Gromov minimal fillings
11⁴⁵-12¹⁵	M. I. Munteanu	Killing magnetic trajectories in 3-dimensional Riemannian manifolds
12²⁰-12⁵⁰	E. Molnar	On geometrization of orbifolds
12⁵⁵-14⁵⁵		LUNCH BREAK
CHAIR		ROOM 1
15⁰⁰-15³⁰	F. Dillen	Submanifolds of product spaces
15³⁵-16⁰⁵	G. Bande	Metric contact pairs (bicontact manifolds)
16¹⁰-16⁴⁰	A. Lotta	Special metrics on almost CR manifolds
16⁴⁰-17¹⁰		Coffee break
CHAIR		ROOM 1
17¹⁰-17⁴⁰	S. Rosemann	On transformation groups preserving certain geometric structures
17⁴⁵-18¹⁵	C. M. Garcia	On Bezier surfaces in three-dimensional Minkowski space
18²⁰-18⁵⁰	A. Prieto-Martin	Generalized S-space-form
CHAIR		ROOM 1
19⁰⁰-19¹⁵	B. Kirik	On nearly quasi-Einstein manifolds
19²⁰-19³⁵	O. Gursoy	On global invariance of the line geometry
CHAIR		ROOM 2
15⁰⁰-15³⁰	S. Smirnov	Semidiscrete Toda Lattices
15³⁵-16⁰⁵	G. Sharygin	Full symmetric Toda flow and Bruhat order of permutation group
16¹⁰-16⁴⁰	O. Vaneeva	Admissible transformations in classes of PDEs
		Coffee break
CHAIR		ROOM 2
17¹⁰-17⁴⁰	Z. Olszak	On the Schouten-van Kampen connection on almost paracontact metric manifolds
17⁴⁵-18¹⁵	G. V. Nosovskiy	Applicability of Laplace transform for fractional PDE with variable rate of derivatives
18²⁰-18⁵⁰	H. Yildirim	Contacts of spacelike hypersurfaces in the lightcone with φ-hyperbolic flat hyperquadrics
CHAIR		ROOM 2
19⁰⁰-19¹⁵	S. Rančić	Geodesic patterns of surfaces
19²⁰-19³⁵	M. Bjelica	Flows on edges of simplex
19³⁵-19⁵⁰	K. Kukić	Discriminantly separable polynomials and integrable systems
20⁰⁰-24⁰⁰		CONFERENCE PARTY

Friday, September 7, 2012.

CHAIR	P.B. Gilkey	
9 ⁰⁰ -9 ³⁰	B-Y Chen	δ -invariants and Lagrangian submanifolds of complex space forms
9 ³⁵ -10 ⁰⁵	I. Dimitrić	Chen type of the isometric hypersurfaces in the unit sphere
10 ¹⁰ -10 ⁴⁰	M. Prvanović	A note on holomorphically projective curvature tensor of an anti-Kaehler manifold
10 ⁴⁰ -11 ¹⁰		Coffee break
CHAIR	V. M. Buchstaber	
11 ¹⁰ -11 ⁴⁰	T. Panov	Intersections of quadratics and H-minimal Lagrangian submanifolds
11 ⁴⁵ -12 ¹⁵	B. Jovanović	Contact flows and integrable systems
12 ²⁰ -12 ⁵⁰	A. Savo	Spectral estimates and isometric group actions
12 ⁵⁵ -14 ⁵⁵		Lunch break
CHAIR		ROOM 1
15 ⁰⁰ -15 ³⁰	S. Nikolaienko	Topology of the Liouville foliation in the integrable case of Goryachev in the problem of motion of a rigid body in fluid
15 ³⁵ -16 ⁰⁵	B. C. Montano	Nullity conditions and Sasaki-Einstein/paraSasaki-Einstein metrics
16 ¹⁰ -16 ⁴⁰	S. Montaldo	Biconservative surfaces in space forms
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR		ROOM 1
17 ¹⁰ -17 ⁴⁰	G. Dileo	Levi-paralle contact Riemannian manifolds
17 ⁴⁵ -18 ¹⁵	L. Brunetti	On the classification of Lorentzian Sasaki space forms
18 ²⁰ -18 ³⁵	A. Hinić Galić	Totally geodesic subalgebras for various inner products on nilpotent Lie algebras
18 ⁴⁰ -18 ⁵⁵	I. Dimitrijević	Nonlocal modified gravity
19 ⁰⁰ -19 ¹⁵	M. Moulin Ribeiro Merkle	TBA
19 ²⁰ -19 ³⁵	I. Sypchenko	TBA
CHAIR		ROOM 2
15 ⁰⁰ -15 ³⁰	P. Giordano	Theory of infinitely near points in smooth manifolds: the Fermat functor
15 ³⁵ -16 ⁰⁵	A. Zheglov	An analogue of the KP theory in dimension two
16 ¹⁰ -16 ⁴⁰	Tee-How Loo	A commutative condition on the holomorphic distribution of real hypersurfaces in a complex projective space
16 ⁴⁰ -17 ¹⁰		Coffee break
CHAIR		ROOM 2
17 ¹⁰ -17 ⁴⁰	Lj. Velimirović	On the shape of bendable shell
17 ⁴⁵ -18 ⁰⁰	M. Stojanović	One family of hyperbolic space groups with simplicial domains
18 ⁰⁵ -18 ²⁰	J. Stojanov	Dynamical system of cancer cell population in the Finsler framework
18 ²⁵ -18 ⁴⁰	T. Šukilović	Detection of arbitrary geometric shapes using discrete curvature
18 ⁴⁵ -19 ⁰⁰	N. Vesić	Differential geometry and matrices
19 ⁰⁵ -19 ²⁰	V. Veličković	TBA
20 ⁰⁰ -22 ⁰⁰		D I N N E R