The 3rd Shot of The 13th MSJ-SI
"Differential Geometry and Integrable Systems"
∼ Celebrating Professor Yoshihiro Ohnita's retirement ∼

Dates: March 3 - 13, 2023
Venue: Sugimoto Campus, Osaka Metropolitan University & Online

Supports

Organizing Committee

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Franz Pedit (UMass Amherst)

Timetable

	March 3	March 4	March 5	March 6	March 7	March 8	March 9	March 10	March 11	March 12	March 13
10:00-10:50	Dorfmeister	L. Heller	Kusner	Wolf	Free Discussion	Free Discussion	Cheng	Chi	Mulase	Biswas	
11:20-12:10	Taniguchi (Online)	Moriya	Ma (Online)	Udagawa (Online)			Carberry	Tang (Online)	Saito	Kajiwara	Free Discussion
14:30-15:00	Morimoto	Hara	Jikumaru	Free Discussion		Burstall 13:10-14:00	Sageman-Furnas	Taketomi (14:10-14:40) Mizoguchi (14:50-15:20)	Shinkawa (Online)	Miyaoka 14:30-15:20	
15:50-16:20	Miyatake	Hateruma	Shimada			S. Heller 14:30-15:20	Szewieczek	C.-Moscoso (16:00-16:30)	Matsumoto	Ohnita 16:10-17:00	
16:40-17:10	Komyo	Sergyeyev (Online)	Wood			Leschke 16:10-17:00	Lam	Sasaki (16:40-17:10)	Ohkawa	Closing (17:00-17:10)	
17:30-18:20	H.-Jeromin (Online)	Pinkall (Online)	Branding (Online)			Bobenko (Online)	Ohyama	Pedit	Kotani		
19:15-21:15									Banquet		

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Program

March 3

9:50-10:00	**Opening**
10:00-10:50	Josef Dorfmeister (TU Munich, Germany)
	Totally symmetric and and finite uniton type harmonic maps into arbitrary inner symmetric spaces
11:20-12:10	Tetsuya Taniguchi (Nihon University, Japan)
	Characterizations of Ricci flat metrics and Lagrangian submanifolds in terms of the variational problem
14:30-15:00	Masahiro Morimoto (OCAMI Osaka Metropolitan University, Japan)
	Minimal PF submanifolds in Hilbert spaces with symmetries
15:50-16:20	Natsuo Miyatake (IMI Kyushu University, Japan)
	Generalizations of the Hermitian-Einstein equation for cyclic Higgs bundles
16:40-17:10	Arata Komyo (Kobe University, Japan)
	A nonclassical algebraic solution of a 3-variable irregular Garnier system
17:30-18:20	Udo Hertrich-Jeromin (Online, TU Wien, Austria)
	Symmetry breaking

March 4

10:00-10:50	Lynn Heller (BIMSA, China)
	On the existence of holomorphic curves in compact quotients of $SL(2, \mathbb{C})$
11:20-12:10	Katsuhiro Moriya (University of Hyogo, Japan)
	Transforms of minimal surfaces
14:30-15:00	Masaya Hara (Kobe University, Japan)
	Darboux transformations in the Lorentz-Minkowski plane
15:50-16:20	Yudai Hateruma (Waseda University, Japan)
	On some Lie-theoretic solutions of the tt*-Toda equations
16:40-17:10	Artur Sergyeyev (Online, Silesian University in Opava, Czech Republic)
	Integrable systems in four independent variables related to contact structures in dimension three
17:30-18:20	Ulrich Pinkall (Online, TU Berlin, Germany)
	Snakes, falling cats and fiber bundles

March 5

10:00-10:50	Robert Kusner (UMass Amherst, USA)
	Eigenspaces and minimal surfaces
11:20-12:10	Hui Ma (Online, Tsinghua University, China)
	Construction of minimal Lagrangian surfaces in $\mathbb{C}P^2$ via integrable system
14:30-15:00	Yoshiki Jikumaru (IMI Kyushu University, Japan)
	On the truss structures in architectural design based on discrete isothermic surfaces
15:50-16:20	Masafumi Shimada (Kyushu University, Japan)
	On a heat equation of $SL(2,\mathbb{R})$, and a future direction of its q-deformation
16:40-17:10	Albert Wood (National Taiwan University, Taiwan)
	Immersed special Lagrangians and mean curvature flow
17:30-18:20	Volker Branding (Online, University of Vienna, Austria)
	Higher order generalizations of harmonic maps

March 6

10:00-10:50	Michael Wolf (Georgia Institute of Technology, USA)
	Ray structures on Teichmüller space
11:20-12:10	Seiichi Udagawa (Online, Nihon University, Japan)
	Solving the sine-Gordon equation and its discretization

March 7

Free Discussion

March 8

13:10-14:00	Fran Burstall (University of Bath, UK)
	Stability of harmonic maps to symmetric spaces
14:30-15:20	Sebastian Heller (BIMSA, China)
	New minimal Lagrangian surfaces in $\mathbb{C}P^2$
16:10-17:00	Katrin Leschke (University of Leicester, UK)
	Periodic Darboux transforms
17:30-18:20	Alexander Bobenko (Online, TU Berlin, Germany)
	Orthogonal ring patterns and discrete surfaces

March 9

10:00-10:50	Qing-Ming Cheng (Fukuoka University, Japan)
	Singularities of mean curvature flow
11:20-12:10	Emma Carberry (University of Sydney, Australia)
	Deformations of spectral curve data
14:30-15:00	Andrew. Sageman-Furnas (NC State University, USA)
	Constructing isometric tori with the same curvatures
15:50-16:20	Gudrun Szewieczek (TU Berlin, Germany)
	Smooth and discrete constrained elastic curves in space forms
16:40-17:10	Wai Yeung Lam (University of Luxembourg, Luxembourg)
	Deformation space of circle patterns
17:30-18:20	Yousuke Ohyama (Tokushima University, Japan)
	Global geometry of q-Painlevé equations

March 10

10:00-10:50	Quo-Shin Chi (Washington University in St. Louis, USA)
	Fano 3-folds and classification of constantly curved holomorphic 2-spheres of degree 6 in the complex Grassmannian $G(2,5)$
11:20-12:10	Zizhou Tang (Online, Chern Institute of Mathematics, China)
	On two questions of I. M. James
14:10-14:40	Yuichiro Taketomi (OCAMI Osaka Metropolitan University, Japan)
	A maximal element of a moduli space of Riemannian metrics
14:50-15:20	Fumika Mizoguchi (Osaka City University, Japan)
	Nilpotent Lie algebras obtained by quivers and Ricci solitons
16:00-16:30	Luis Pedro Castellanos Moscoso (OCAMI Osaka Metropolitan University, Japan)
	Symplectic structures on almost abelian Lie algebras
16:40-17:10	Yuuki Sasaki (National Institute of Technology, Tokyo College, Japan)
	Some submanifolds of the associative Grassmann manifold
17:30-18:20	Franz Pedit (UMass Amherst, USA)
	50 years of harmonic maps

March 11

10:00-10:50	Motohico Mulase (UC Davis, USA)
	The Gaiotto correspondence, quantization, and connections defined over $\overline{\mathbb{Q}}$
11:20-12:10	Masa-Hiko Saito (Kobe Gakuin University, Japan)
	Canonical coordinates of moduli spaces of connections and Higgs bundles, isomonodromic deformations and differential equations of Painlevé type
14:30-15:00	Eriko Shinkawa (Online, AIMR Tohoku University, Japan)
	Geometry of anisotropic double crystals and classification of some examples
15:50-16:20	Takafumi Matsumoto (Kobe University, Japan)
	Moduli space of rank three logarithmic connections on the projective line with three poles
16:40-17:10	Ryo Ohkawa (OCAMI Osaka Metropolitan University, Japan)
	Wall-crossing formula for framed quiver moduli
17:30-18:20	Motoko Kotani (Tohoku University, Japan)
	Discrete surface theory, and convergence of sequence of subdivided discrete surfaces

March 12

10:00-10:50	Indranil Biswas (Tata Institute of Fundamental Research, India)
	Symplectic geometry of the moduli spaces
11:20-12:10	Kenji Kajiwara (IMI Kyushu University, Japan)
	Genaration of aesthetic shapes by integrable geometry
14:30-15:20	Reiko Miyaoka (Tohoku University, Japan)
	Review of my research
16:10-17:00	Yoshihiro Ohnita (OCAMI Osaka Metropolotan University, Japan)
	Minimal submanifolds, harmonic maps and isoparametric submanifolds
17:00-17:10	**Closing**

March 13

Free Discussion