Frontiers in Nonlinear Differential Equations and Stokes Phenomena Symposium Schedule

For further details or inquiries, please contact the TVSP Team at <tsvp@oist.jp>

Guide to symposium talk types		
Public talk (50 min, 10 min questions)	Accessible to both non-specialists and the wider public; these talks will be made available on YouTube; very wide ranging audience from non-mathematicians and non-scientists to specialists	
	Colloquium-style introduction to important questions in the area, overview of research etc. Accessible to an audience that may span several disciplines in pure and applied mathematics and theoretical physics.	
Lectures (50 min, 10 min questions)	Graduate-level summer school. Pedagogical to enable the various research areas to be able to interact.	
	We will ask everyone to prepare their talks with 25 minutes of pedagogical background and 25 minutes of research talk. This split may be enforced by having a break in between the two halves!	

Monday 4 Sept, Venue: L5EF03	
14:00 onwards	Registration in TSVP area, OIST Lab 5 EF03 (access)
16:00-17:00	Welcome coffee at TSVP area

Tuesday 5 Sept, Venue: L4E48			
Time	Speaker	Торіс	
09:30-10:30	Adri Olde Daalhuis (University of Edinburgh)	Panorama talk on exponential asymptotics	
10:30-11:00		Coffee	
11:00-12:00	Shinji Sasaki (Shibaura Institute of Technology)	Borel summability of transformation to canonical equations in the exact WKB analysis	
12:00-13:15		Lunch	
13:15-13:30	Welcome by OIST's De	Welcome by OIST's Dean of Research Nicholas M. Luscombe	
13:30-14:30	Philippe Trinh (University of Bath)	An introduction to applied exponential asymptotics: methodology and computation	
14:30-15:00		Coffee	
15:00-16:00	Dan Dai (City University of Hong Kong)	Asymptotics and total integrals of the P(i) ² tritronquée solution and its Hamiltonian	
16:00 onwards	Coffee, f	free discussion, end of day	

Wednesday 6 Sept, Venue: L4E48			
Time	Speaker	Торіс	
9:30-10:30	Oleg Lisovyi (Université de Tours)	Perturbative connection formulas for Heun equations	
10:30-11:00		Coffee	
11:00-12:00	Pavlo Gavrylenko (SISSA)	Isomonodromic deformations on a torus, Fredholm determinants, and Nekrasov partition functions.	
12:00-13:30		Lunch	
13:30-14:30	Akira Shudo (Tokyo Metropolitan University)	The role of new Stokes curves in some physics problems	
14:30-16:00	C	Coffee and free time	
16:00-17:00	Nikita Nikolaev (University of Birmingham)	Research talk (online)	
17:00 onwards	Coffee, fi	Coffee, free discussion, end of day	

Thursday 7 Sept, Venue: L4E48			
Time	Speaker	Topic	
9:30-10:30	Yoshitsugu Takei (Doshisha University)	On the exact WKB analysis for difference equations	
10:30-11:00		Coffee	
11:00-12:00	Harini Desiraju (SMRI, University of Sydney)	Monodromy dependence of tau-functions on the torus	
12:00-13:30		Lunch	
13:30-14:30	Dylan Allegretti (Tsinghua University)	Asymptotics of spectral coordinates	
14:30-15:00		Coffee	
15:00-16:00	Akira Shudo (Tokyo Metropolitan University)	Quantum Signatures of Chaos	
18:30-20:30	Conference banquet at Umusan no Niwa restaurant in Onna village (Taxis depart OIST at 18:00)		

Friday 8 Sept, Venue: Center, C209			
Time	Speaker	Topic	
9:30-10:30	Martin Guest (Waseda University)	Stokes Phenomena in geometry	
10:30-11:15		Coffee	
11:15-12:15	Nicolas Delporte (OIST)	Peeking at quantum gravity with self-overlapping curves	
12:15-13:30		Lunch	
13:30-14:30	Fabrizio Del Monte (University of Sheffield)	Wall-Crossing and Discrete Integrable Systems	
14:30-18:30		Discussions in TSVP area L5EF03	

Saturday 9 Sept	
09:00-17:30	Excursion for participants and family

Monday 11 Sept, Venue: L5EF03		
Time	Speaker	Торіс
9:30-10:30	Nick Dorey (University of Cambridge)	Panorama talk
10:30-11:00		Coffee
11:00-12:00	Kohei lwaki (University of Tokyo)	Non-linear Stokes phenomenon for Painleve tau-function and topological recursion
12:00-13:30		Lunch
13:30-14:30	Gergő Nemes (Tokyo Metropolitan University)	An introduction to exponential asymptotics
14:30-15:00		Coffee
15:00-15:30	Cecilie Andersen (University of Bath)	Exponential asymptotics for the Saffman-Taylor problem in a wedge (online)
15:30 onwards	Coffee, fre	ee discussion, end of day

Tuesday 12 Sept, Venue: L5EF03		
Time	Speaker	Торіс
9:30-10:30	Jon Chapman (University of Oxford)	Asymptotics beyond all orders: the devil's invention?
10:30-11:00		Coffee
11:00-12:00	Yumiko Takei (Ibaraki College)	Research talk
12:00-13:30		Lunch
13:30-14:00	Josh Shelton (University of Bath)	Beyond-all-order effects in surface water waves (online)
14:00-14:30		Coffee
14:30-15:00	Chris Lustri (University of Sydney)	Research talk (online)
15:00 onwards	Cot	fee, free discussion, end of day

Wednesday 13 Sept, Venue: L5EF03		
Time	Speaker	Topic
9:30-10:30	Robert Osburn (UCD)	Strange identities, the Habiro ring and resurgence
10:30-11:00	Cot	fee
11:00-12:00	Takeshi Kataoka (Kobe University)	2D ship waves and exponential asymptotics
12:00-13:30	Lur	nch
13:30-14:30	Cihan Pazarbaşı (OIST)	Research talk
14:30-15:00	Cot	fee
15:00-16:00	Jon Chapman (University of Oxford) - Venue: Center, B250	Waves and Resonance: From Musical Instruments to Vacuum Cleaners, via Metamaterials and Invisibility Cloaks
16:00 onwards	Coffee, free discu	ssion, end of day

Thursday 14 Sept, Venue: L5EF03			
Time	Speaker	Торіс	
9:30-10:30	Omar Kidwai (University of Birmingham)	Quantum curves from refined topological recursion	
10:30-11:00		Coffee	
11:00-12:00	Samuel Crew (MPI)	Research Talk	
12:00-13:30		Lunch	
13:30 onwards	Coffee	, free discussion, end of day	

Friday 15 Sept	
Coffee, free discussion, departure	