3rd French Russian Conference on Random Geometry and Physics: The Sachdev-Ye-Kitaev Model and Related Topics Steklov Mathematical Institute, Moscow, 3-7 June 2019

	Monday	Tuesday	Wednesday	Thursday	Friday
10:00-10:30	Volovich	Rivasseau	Aref'eva	Verbaarschot	Morozov
10.30-11.00	Sonner	Toriumi	Tezuka	Gorsky	Spiridonov
11:10-11:40	Aron	Vasiliev	Berkooz	Krajewski	Stukopin
11:40-12:10	Suzuki	Carrozza	Khramtsov	Evnin	Katanaev
12.10-12:40	Coffee	Coffee	Coffee	Coffee	Closing
12:40-13:10	Dymarsky	Belokurov	Belavin	Zarembo	
13:10-13:40	Nechaev	Vignes-Tourneret	Jafferis	A. Orlov	
13:40-14:10	Metsaev		Lunch	Sakbaev	
14:10-15:30	Lunch	Lunch	Free	Lunch	
15:30-15:50	Ageev	Sazonov	Free	Golubtsova	
15:50-16.10	Inozemcev	Harribey	Free	Patrushev	
16:10- 16:30	Pavlenko	Delporte	Free	Zenkevich	
16:30-17:00	Coffee	Coffee	Free	Coffee	
17:00-17:40	Klebanov (video talk)	Eichhorn (video talk)	Free	Mayburov (17.00- 17.20)	
17.40-18.10	Tarnopolsky (video talk)	Discussion	Free	Discussion	
18:10-21:30	Wellcome party		Conference Dinner		

Program of 3rd French-Russian Conference on Random Geometry and Physics: Sachdev-Ye-Kitaev Model and Related Topics

Monday, June 3rd

Chair: Rivasseau	
9.30 — 9.50	Registration of participants
9.50 - 10.00	Irina Aref`eva (Steklov Mathematical Institute of Russian Academy of Sciences);
	Vincent Rivasseau (professor, University Paris-Sud XI, Orsay)
	Opening
10.00 — 10.30	Igor Volovich (Steklov Mathematical Institute of Russian
	Academy of Sciences); Random matrices, SYK and moduli of Riemann surfaces
	Kanaom mairices, 51K and moduli of Klemann surfaces
10.30 — 11.00	Julian Sonner (University of Geneva)
	A many-body perspective on black-hole micro states
11.00 — 11.10	Short break
Chair: Volovich	
11.10 — 11.40	Camille Aron (Ecole Normale Supérieure, Laboratoire de
	Physique Theorique, Paris) (Non) aquilibrium dynamics, a (broken) symmetry
	(Non) equilibrium dynamics: a (broken) symmetry
11.40 — 12.10	Kenta Suzuki (CPhT, Ecole Polytechnique, Paris)
	Emergence of Space-Time in the SYK Model
12.10 — 12.40	Coffee break
Chair: Aron	
12.40 — 13.10	Sergei Nechaev (Poncelet Laboratory)
	Phyllotaxis and Lifshitz tails in 1D Anderson localization: what
	is common?
13.10 — 13.40	Anatoly Dymarsky (University of Kentucky & Skoltech)
	Quantum KdV hierarchy in 2d CFTs
13.40 — 14.10	Ruslan Metsaev (Lebedev Physical Institute of Russian Academy
	of Sciences) Continuous-spin field in AdS space and conformal algebra
	representations

14.10 — 15.30	Lunch
Chair: Dymarsky	
15.30 — 15.50	Dmitry Ageev (Steklov Mathematical Institute of Russian Academy of Sciences) Momentum/operator size holographic correspondense and applications
15.50 — 16.10	Oleg Inozemcev (Steklov Mathematical Institute of Russian Academy of Sciences) Operative Formulation of the Eigenstate Thermalization Hypothesis
16.10 — 16.30	Kirill Pavlenko (Skoltech) Generalized Eigenstate Thermalization in 2d CFTs
16.30 — 17.00	Coffee break
Chair: Metsaev	
17.00 — 17.40	Video talk: Igor Klebanov (Princeton University) Dynamics of Tensor and SYK Models
17.40 — 18.10	Video talk: Grigory Tarnopolsky (Harvard University) Remarks on the Complex SYK model
Tuesday, June 4th	
Chair: Aref`eva 10.00 — 10.30	Vincent Rivasseau (University Paris-Sud XI, Orsay) Random tensors, a flexible tool for geometry and physics
10.30 — 11.00	Reiko Toriumi (Okinawa Institute of Science and Technology) Perturbative Tensor Field Theories
11.00 — 11.10	Short break
11.10 — 11.40	Mikhail Vasiliev (Lebedev Physical Institute of Russian Academy of Sciences) Present status of higher-spin theory
11.40 — 12.10	Sylvain Carrozza (Perimeter Institute for Theoretical Physics)

Large N limit of irreducible tensor models

12.10 12.40	
12.10 — 12.40	Coffee break
Chair: Vasiliev	
12.40 — 13.10	Vladimir Belokurov (Moscow State University) Functional integrals In Schwarzian theory
13.10 — 13.40	Fabien Vignes-Tourneret (Université de Lyon) Constructive Tensor Field Theory through an example
13.40 — 15.30	Lunch
Chair: Toriumi	
15.30 — 15.50	Vasily Sazonov (University of Graz) Large-N dynamics of the spiked tensor model with random initial conditions
15.50 — 16.10	Sabine Harribey (CPhT, Ecole Polytechnique, Paris) Line of fixed points in a bosonic tensor model
16.10 — 16.30	Nicolas Delporte (University Paris-Sud XI, Orsay) Perturbative QFT on a Random Tree
16.30 — 17.00	Coffee break
17.00 — 17.40	Video talk: Astrid Eichhorn (CP3-Origins, University of Southern Denmark) Tensor models for quantum gravity from a functional Renormalization Group perspective
Wednesday, June 5th	
Chair: Sonner	
10.00 — 10.30	Irina Aref`eva (Steklov Mathematical Institute of Russian Academy of Sciences); Replica-nondiagonal solutions in the SYK model
10.30 — 11.00	Masaki Tezuka (Kyoto University) Characterization of chaotic dynamics in quantum systems

Short break

11.00 — 11.10

11.10 — 11.40	Micha Berkooz (Weizmann Institute of Science) Towards a full solution of the large N double scaled SYK model
11.40 — 12.10	Mikhail Khramtsov (Steklov Mathematical Institute of Russian Academy of Sciences); Probing nonperturbative structures in gravity with SYK
12.10 — 12.40	Coffee break
Chair: Tezuka	
12.40 — 13.10	Alexander Belavin (Landau Institute of Theoretical Physics) <i>JKLMR conjecture and Batyrevs polytopes</i>
13.10 — 13.40	Daniel Jafferis (Harvard University) Entanglement entropy in 2d gravity
13.40 — 14.30	Lunch
14.50 — 20.00	Excursion
20.00 — 23.00	Conference dinner
Thursday, June 6th	
Thursday, June 6th Chair: Berkooz	
•	Jacobus Verbaarschot (Stony Brook University) Quantum Chaos in a (Coupled) Sachdev-Ye-Kitaev Model
Chair: Berkooz	` "
Chair: Berkooz 10.00 — 10.30	Quantum Chaos in a (Coupled) Sachdev-Ye-Kitaev Model Alexander Gorsky (IITP RAS & MIPT)
Chair: Berkooz 10.00 — 10.30 10.30 — 11.00	Quantum Chaos in a (Coupled) Sachdev-Ye-Kitaev Model Alexander Gorsky (IITP RAS & MIPT) Resummation of instantons near poles and AdS3 geometry
Chair: Berkooz 10.00 — 10.30 10.30 — 11.00 11.00 — 11.10	Quantum Chaos in a (Coupled) Sachdev-Ye-Kitaev Model Alexander Gorsky (IITP RAS & MIPT) Resummation of instantons near poles and AdS3 geometry Short break Thomas Krajewski (Aix-Marseille Université)
Chair: Berkooz 10.00 — 10.30 10.30 — 11.00 11.00 — 11.10 11.10 — 11.40	Quantum Chaos in a (Coupled) Sachdev-Ye-Kitaev Model Alexander Gorsky (IITP RAS & MIPT) Resummation of instantons near poles and AdS3 geometry Short break Thomas Krajewski (Aix-Marseille Université) Non Gaussian average in the Sachdev-Ye Kitaev model Oleg Evnin (Chulalongkorn University, Bangkok & Solvay Institute, Brussels)
Chair: Berkooz 10.00 — 10.30 10.30 — 11.00 11.00 — 11.10 11.10 — 11.40 11.40 — 12.10	Quantum Chaos in a (Coupled) Sachdev-Ye-Kitaev Model Alexander Gorsky (IITP RAS & MIPT) Resummation of instantons near poles and AdS3 geometry Short break Thomas Krajewski (Aix-Marseille Université) Non Gaussian average in the Sachdev-Ye Kitaev model Oleg Evnin (Chulalongkorn University, Bangkok & Solvay Institute, Brussels) Quantum resonant systems

	N=2* super-Yang-Mills theory: from holography to random matrices
13.10 — 13.40	Aleksandr Orlov (NRU Higher School of Economics) Matrix models for Hurwitz numbers for Klein surfaces
13.40 — 14.10	Vsevolod Sakbaev (Moscow Institute of Physics and Technology) Limit distributions of compositions of independent random semigroups of linear operators
14.10 — 15.30	Lunch
Chair: Zarembo	
15.30 — 15.50	Anastasia Golubtsova (BLTP, Joint Institute for Nuclear Research) On integrable holographic RG flows with one and several running couplings
15.50 — 16.10	Alexander Patrushev (Bauman Moscow State Technical University) Entanglement entropy in strongly correlated systems with phase transition and anisotropy
16.10 — 16.30	Yegor Zenkevich (Milano Bicocca University & ITEP) 3d gauge theories, matrix models and superalgebras
16.30 — 17.00	Coffee break
Chair: Ageev	
17.00 — 17.20	Sergey Mayburov (Lebedev Physical Institute of Russian Academy of Sciences) Nuclear decay oscillations and bilocal quantum gravity
Friday, June 7th	
Chair: Verbaarschot 10.00 — 10.30	Andrey Morozov (IITP RAS & ITEP) Eigenvalue hypothesis and 6j-symbol symmetries
10.30 — 11.00	Vyacheslav Spiridonov (BLTP, Joint Institute for Nuclear Research) 4d Superconformal indices and 2d statistical mechanics

11.00 — 11.10	Short break
11.10 — 11.40	Vladimir Stukopin (Don State Technical University & MIPT) On representations of Yangians and Quantum Loop Superalgebras
11.40 — 12.10	Mikhail Katanaev (Steklov Mathematical Institute of Russian Academy of Sciences) Chern-Simons action in the geometric theory of defects
12.10 — 12.40	Closing