International Winter School PARTITION FUNCTIONS AND AUTOMORPHIC FORMS BLTP JINR, January 29 – February 2, 2018 Schedule

Sunday 28 January,

20:00-21:00	Registration at the hotel "Dubna"
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Monday 29 January, BLTP JINR, Conf. hall, 2nd floor

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9:00 - 9:50	Registration at the Visit Center	
10:00 - 10:10	Opening of the School	
10:10 - 11:10	Lecture Course. S. Kim, SUPERCONFORMAL INDICES AND INSTANTON PARTITION FUNCTIONS, I.	
11:10 - 11:40	Coffee break	
11:40 - 12:40	Lecture Course. S. Kim, SUPERCONFORMAL INDICES AND INSTANTON PARTITION FUNCTIONS, II.	
12:40 - 14:30	Lunch (JINR canteen)	
14:30 - 15:30	Lecture Course. P. Vanhove, FEYNMAN INTEGRALS AND MODULAR FORMS, I.	
15:30 - 16:00	Coffee break	
16:00 - 17:00	Lecture Course. P. Vanhove, FEYNMAN INTEGRALS AND MODULAR FORMS, II.	
17:00 - 18:00	Survey Lecture. V. Spiridonov, INTRODUCTION TO THE THEORY OF ELLIPTIC HYPERGEOMETRIC INTEGRALS	
18:10 - 18:40	Talks by participants. A. Bolshov, Grassmannians and form factors, 15' A. Zadora, Dilaton black holes, integrability and coupling constant quantization, 15'	
18:45	Welcome party (BLTP cafeteria)	

Tuesday 30, January

10:00 - 11:00	Lecture Course. H. Nicolai, ON K(E10) AND ITS FERMIONIC REPRESENTATIONS, I.
11:00 - 11:30	Coffee break
11:30 - 12:30	Lecture Course. H. Nicolai, ON K(E10) AND ITS FERMIONIC REPRESENTATIONS, II.
12:30 - 13:00	Talks by participants. I.Gahramanov, Supersymmetric indices, elliptic hypergeometric functions and integrability
13:00 - 14:30	Lunch
14:30 - 15:30	Lecture Course. P. Vanhove, FEYNMAN INTEGRALS AND MODULAR FORMS, III.

15:30 - 16:00	Coffee break
16:00 - 17:00	Lecture Course. P. Vanhove, FEYNMAN INTEGRALS AND MODULAR FORMS, IV.
17:00 - 17:30	Talks by participants. P. Agarwal, N=1 Lagrangians for generalized Argyres-Douglas theories
17:30 - 18:00	Talks by participants L. Bork, Integrands for form factors in N=4 SYM and ambitwistor strings.
20:00	Evening discussions at the Hotel conference hall.

Wednesday, 31 January

Wednesday, 51 Januar	I
10:00 - 11:00	Lecture Course. J. Duncan, MOONSHINE IN NUMBER THEORY AND GEOMETRY, I.
11:00 - 11:30	Coffee break
11:30 - 12:30	Lecture Course. J. Duncan, MOONSHINE IN NUMBER THEORY AND GEOMETRY, II.
12:30 - 13:00	Talks by participants. A. Chowdhury, Calabi-Yau manifolds and sporadic groups
13:00 - 14:30	Lunch
14:30 - 15:30	Lecture Course. S. Kim, SUPERCONFORMAL INDICES AND INSTANTON PARTITION FUNCTIONS, III
15:30 - 16:00	Coffee break
16:00 - 17:00	Lecture Course. S. Kim, SUPERCONFORMAL INDICES AND INSTANTON PARTITION FUNCTIONS, IV
17:00 - 18:00	Survey Lecture. Du Pei, BPS SPECTRA AND INVARIANTS FOR THREE- AND FOUR-MANIFOLDS
18:00 - 18:30	Talks by participants. A. Chattopadhyaya, Dyon degeneracies from Mathieu moonshine symmetry
20:00	Evening discussions at the Hotel conference hall

Thursday, 1 February

10:00 - 11:00	Lecture Course. Y. Yamada, THEORY AND APPLICATIONS OF THE ELLIPTIC PAINLEVE EQUATION, I.
11:00 - 11:30	Coffee break
11:30 - 12:30	Lecture Course. Y. Yamada, THEORY AND APPLICATIONS OF THE ELLIPTIC PAINLEVE EQUATION, II.
12:30 - 13:00	Talks by participants. K. Sun, Blowup Equations for Refined Topological Strings
13:00 - 14:30	Lunch
14:30 - 15:30	Lecture Course. J. Duncan, MOONSHINE IN NUMBER THEORY AND GEOMETRY, III.

15:30 - 16:00	Coffee break
16:00 - 17:00	Lecture Course. J. Duncan, MOONSHINE IN NUMBER THEORY AND GEOMETRY, IV.
17:00 - 18:00	Survey Lecture. V. Nikulin, LORENTZIAN KAC-MOODY ALGEBRAS, I
18:00 - 18:30	Talks by participants. R. Matias, Replication and Sporadic Groups
20:00	Evening discussions at the Hotel conference hall.

Friday, 2 February

Friday, 2 February	
10:00 - 11:00	Lecture Course. Y. Yamada, THEORY AND APPLICATIONS OF THE ELLIPTIC PAINLEVE EQUATION, III.
11:00 - 11:30	Coffee break
11:30 - 12:30	Lecture Course. Y. Yamada, THEORY AND APPLICATIONS OF THE ELLIPTIC PAINLEVE EQUATION, IV.
12:30 - 13:00	Talks by participants. M. Bershtein, Difference Painleve equations from 5d gauge theories
13:00-14:30	Lunch
14:30 - 15:30	Survey Lecture. V. Gritsenko, LORENTZIAN KAC-MOODY ALGEBRAS, II
15:30 - 16:00	Coffee break
16:00 - 17:00	Talks by participants. L. Astrakhantsev, Moving mirrors in 2 dimensional QFT, 15' D. Adler, The ring of weak Jacobi forms for D_8 root system, 15' A. Lobashev, Kontsevich integral in topological models of gravity, 15' A. Chekmenev, Conformal Lagrangians from the (formal) near boundary analysis of AdS gauge fields, 15'
17:00	Closure of the School