## **Schedule**

Friday, July 8th

**8:30 – 9:20 Registration** at the Euler Institute

9:20 Opening

Morning session. Chair: Dmitri Diakonov

9:30

Ilya Gruzberg (Chicago). Mott-Berezinsky formula, instantons, and integrability

10:30

Christof Gattringer (Graz). New approaches to QCD at finite matter density

11:30 Coffee break

12:00

Igor Gornyi (Karlsruhe & Ioffe). Interaction-induced criticality in topological insulators

13:00 Lunch

Afternoon session. Chair: Alexander Mirlin

15:00

Alexei Yung (PNPI). Confined magnetic monopoles in dense QCD

**16:00** Coffee break

16:30

**Boris Pavlov** (Aukland & St. Petersburg). Landau – Zener phenomenon in 2d periodic sandwich

**18:00 Welcome party** at Euler Institute

## Saturday, July 9th

## Morning Session. Chair: llya Gruzberg

9:30

Pavel Ostrovsky (Karlsruhe & Landau). Localization in disordered systems with chiral symmetry

10:30

**Michael Hermele** (Boulder). Majorana spin liquids and projective spin rotation symmetry

## 11:30 Coffee break

12:00

Ludwig Faddeev (Steklov @ St. Petersburg). Quantum dilogarithm

## 13:00 **Lunch**

## Afternoon session. Chair: Christof Gattringer

## **15:00**

**Felix von Oppen** (FU Berlin). Majorana fermions and topological phases in disordered quantum wires

## 16:00 Coffee break

## 16:30

**Vladimir Matveev** (U. of Bourgogne), Multiple rogue waves solutions to the Gross – Pitaevskii equation

#### 17:10

**Igor Bogolubsky** (Dubna). On localized structures in 2d and 3d models comprising Yang-Mills fields

# Sunday, July 10th

Morning session. Chair: Yan Fyodorov

9:30

Alexander Its (Purdue U.). Quantum entanglement and the finite gap integration

10:30

Akira Furusaki (RIKEN). Competing phases of XXZ spin chain with frustration

11:30 Coffee break

12:00

Lev Lipatov (PNPI). Effective action for the Regge processes in gravity

13:00 Lunch

Group meetings

**18:00** Boat trip and conference dinner on board.

## Monday, July 11th

## **Morning session. Chair:**

9:30

Matthew Fisher (UCSB & Microsoft). Non-Fermi liquid phases for itinerant electrons

10:30

Gil Refael (Caltech), Floquet topological insulators

## 11:30 Coffee break

12:00

**Samson Shatashvili** (Trinity College, Dublin & IHES, Bures-Sur-Yvette). Integrability in Quantum Theory, and Applications

## 13:00 **Lunch**

## Afternoon session. Chair:

15:00

**Igor Burmistrov** (Landau). Spin and charge correlations in quantum dots: The effect of level statistics

## 16:00 Coffee break

16:30

**Anatoly Kotikov** (Dubna). The property of maximal transcendentality in the N=4 Supersymmettric Yang – Mills

17:10

Alexey Vladimirov (Bochum). Infrared Logarithms in Effective Field Theories

## Tuesday, July 12th

## **Morning session. Chair:**

#### 9:30

**Dmitri Ivanov** (EPFL). Phase transitions in full counting statistics in time-periodic setups

## 10:30

**Yan Fyodorov** (Nottingham). Fluctuation properties of 1/f noise: from Statistical Mechanics to Random Matrices, Riemann-zeta function and Burgers Turbulence

### 11:30 Coffee break

### 12:00

**Mikhail Feigelman** (Landau). Level statistics and self-induced decoherence in disordered spin-1/2 systems

#### 13:00 **Lunch**

## **Afternoon session. Chair:**

## **15:00**

Yuri Makhlin (Landau). Topology of the planar phase of superfluid helium-3

#### 16:00 Coffee break

#### 16:30

**Vadim Ponomarenko** (Portugal). Braiding of anyonic quasiparticles in fractional edge-state Mach-Zehnder interferometer

#### 17:10

**Andrey Katanin** (Ekaterinburg). Spin fluctuations in magnetically ordered layered systems

## Wednesday, July 13th

## **Morning session. Chair:**

9:30

Grigory Volovik (TU Helsinki & Landau). Flat bands in topological matter

10:30

**Alexander Ossipov** (Nottingham). Critical eigenstates of the long-range random **Hamiltonians** 

#### 11:10 Coffee break

11:40

Valentin Kachorovskii (Ioffe). Tunneling into a Luttinger liquid revisited

12:20

**Dmitri Aristov** (PNPI) Y-junction connecting Luttinger liquids: fixed point structure and conductances

#### 13:00 **Lunch**

## **Afternoon session. Chair:**

15:00

**Pavel Bolokhov** (Minneapolis). Curves of Marginal Stability in two-dimensional Supersymmetric Sigma Models

15:40

Denis Grebenkov (Paris). Localization of the Laplace operator eigenfunctions

16:20 Coffee break

16:50

Dmitri Diakonov (PNPI). Is there any torsion in your future?

Closing and farewell party