

Summer School 'ESQN' Windsor-99

sponsored by **European Commission (TMR and INCO)**
and by **Office of Naval Research (USA)**

16 Aug, Monday

from 10.00 until 18.30	<i>Registration</i>
13.00	buffet
16.30-17.00	coffee & biscuits
19.00	<i>Opening session</i> (in the lecture theatre)
19.30	<i>Welcome party</i> Bar opens after 21.00

17 Aug, Tuesday

9.15-10.15	A. MacDonald <i>The Quantum Hall Effect and Quantum Hall Ferromagnets</i> coffee
10.45-11.45	A. MacDonald <i>The Quantum Hall Effect and Quantum Hall Ferromagnets</i>
11.55-12.55	J.-L. Pichard <i>Methods of Random Matrix Theory in Quantum Transport</i> lunch
14.30-15.30	J.-L. Pichard <i>Methods of Random Matrix Theory in Quantum Transport</i>
15.40-16.40	M. Pepper <i>Transport in Low-Dimensional Semiconductors</i> coffee
17.00-18.00	M. Pepper <i>Transport in Low-Dimensional Semiconductors</i> dinner

18 Aug, Wednesday

- 9.15-10.15 C. Beenakker
Mesoscopic Superconductivity
coffee
- 10.45-11.45 C. Beenakker
Mesoscopic Superconductivity
- 11.55-12.55 A. Tsvelik
Field Theory Methods in Condensed Matter Physics
lunch
- 14.30-15.30 A. Tsvelik
Field Theory Methods in Condensed Matter Physics
- 15.40-16.40 J. Chalker
Non-Hermitian Random Operators in Condensed Matter Theory
coffee
- 17.00-18.00 J. Chalker
Non-Hermitian Random Operators in Condensed Matter Theory
dinner

19 Aug, Thursday

- 9.15-10.15 A. MacDonald
The Quantum Hall Effect and Quantum Hall Ferromagnets
coffee
- 10.45-11.45 A. MacDonald
The Quantum Hall Effect and Quantum Hall Ferromagnets
- 11.55-12.55 J.-L. Pichard
Methods of Random Matrix Theory in Quantum Transport
lunch
- 14.30-15.30 J.-L. Pichard
Methods of Random Matrix Theory in Quantum Transport
- 15.40-16.40 B. van Wees
Quantum Transport in Hybrid Nanostructures
coffee
- 17.00-18.00 Mini-Symposium (20 mins. talks):
I. Beloborodov, *Negative magnetoresistance of granular metals*
E. Bascones, *Nanosize superconducting constrictions at high magnetic fields*
J. Torres, *Hanbury-Brown and Twiss correlations in N- and S-metal devices*
dinner

20 Aug, Friday

- 9.15-10.15 C. Beenakker
Mesoscopic Superconductivity
coffee
- 10.45-11.45 B. van Wees
Quantum Transport in Hybrid Nanostructures
- 11.55-12.55 J. Chalker,
Non-Hermitian Random Operators in Condensed Matter Theory
lunch
- 14.30-15.30 J. Chalker,
Non-Hermitian Random Operators in Condensed Matter Theory
- 15.40-16.40 R. Nicholas
Ferromagnetic Quantum Hall Effect Liquids
coffee
- 17.00-18.00 W. Haussler (seminar)
Correlation in quantum dots
dinner

21 Aug, Saturday

- 9.15-10.15 B. Altshuler
Mesoscopic Physics
coffee
- 10.45-11.45 B. Altshuler
Mesoscopic Physics
- 11.55-12.55 A. Finkelstein
Electron-Electron Interactions in Low-Dimensional Systems
lunch
- 14.30-15.30 A. Finkelstein
Electron-Electron Interactions in Low-Dimensional Systems
- 15.40-16.40 Mini-Symposium (20 mins. talks):
C. Texier, *Wigner time delay distribution for 1D random potential*
E. Mishchenko, *Radiative transfer theory for fluctuations in optical systems*
M. Skvortsov, *Keldysh action for disordered superconductors*
coffee
- 17.00-18.30 Poster Session I
- 19.15 Conference dinner

22 Aug, Sunday

No lectures

23 Aug, Monday

- 9.15-10.15 A. Finkelstein
Electron-Electron Interactions in Low-Dimensional
coffee
- 10.45-11.45 A. Finkelstein
Electron-Electron Interactions in Low-Dimensional Systems
- 11.55-12.55 B. Altshuler
Mesoscopic Physics
lunch
- 14.30-15.30 B. Altshuler
Mesoscopic Physics
- 15.40-16.40 V. Petrashov
Physics and Technology of Nanoscale Metallic Systems
coffee
- 17.00-18.00 V. Petrashov
Physics and Technology of Nanoscale Metallic Systems
dinner

24 Aug, Tuesday

- 9.15-10.15 A. Tsvelik
Exactly Solvable & Conformal Field Theories in Cond. Matt. Physics
coffee
- 10.45-11.45 A. Tsvelik
Exactly Solvable & Conformal Field Theories in Cond. Matt. Physics
- 11.55-12.55 A. Finkelstein
Electron-Electron Interactions in Low-Dimensional Systems
lunch
- 14.30-15.30 D. Edwards
Giant Magneto-Resistance and Layered Magnetic Structures
- 15.40-16.40 I. Aleiner
Quantum Effects in Coulomb Blockade
coffee
- 17.00-18.00 L. Levy
Magnetism in Low-Dimensional and Mesoscopic Systems
dinner

25 Aug, Wednesday

No lectures

26 Aug, Thursday

- 9.15-10.15 A. Ludwig
Exact Field Theory Methods in Low-Dimensional Cond. Matt. Physics
coffee
- 10.45-11.45 A. Ludwig
Exact Field Theory Methods in Low-Dimensional Cond. Matt. Physics
- 11.55-12.55 D. Edwards
Giant Magneto-Resistance and Layered Magnetic Structures
lunch
- 14.30-15.30 D. Edwards
Giant Magneto-Resistance and Layered Magnetic Structures
- 15.40-16.40 H. Grabert
Screening and Transport in Single-Channel Quantum Wires
coffee
- 17.00-18.00 L. Levy
Magnetism in Low-Dimensional and Mesoscopic Systems
dinner
- 20.30-21.30 J. Spalek (seminar)
Correlation-induced optimisation in single-particle wave functions

27 Aug, Friday

- 9.15-10.15 A. Tsvetik
Exactly Solvable & Conformal Field Theories in Cond. Matt. Physics
coffee
- 10.45-11.45 A. Tsvetik
Exactly Solvable & Conformal Field Theories in Cond. Matt. Physics
- 11.55-12.55 I. Aleiner
Quantum Effects in Coulomb Blockade
lunch
- 14.30-15.30 I. Aleiner
Quantum Effects in Coulomb Blockade
- 15.40-16.40 G. Schoen
*Nano-electronic elements for quantum computers
and Josephson junction qubits*
coffee
- 17.00-18.00 F. Essler (seminar)
Application of sine-Gordon model to quasi-1D quantum magnets
dinner
- 20.30-21.30 Poster Session II

28 Aug, Saturday

- 9.15-10.15 A. Ludwig
Exact Field Theory Methods in Low-Dimensional Cond. Matt. Physics
coffee
- 10.45-11.45 A. Ludwig
Exact Field Theory Methods in Low-Dimensional Cond. Matt. Physics
- 11.55-12.55 H. Grabert
Screening and Transport in Single-Channel Quantum Wires
lunch
- 14.30-15.30 H. Grabert
Screening and Transport in Single-Channel Quantum Wires
- 15.40-16.40 G. Schoen
*Nano-electronic elements for quantum computers
and Josephson junction qubits*
coffee
- 17.00-18.00 G. Schoen
*Nano-electronic elements for quantum computers
and Josephson junction qubits*
- 18.15 Closing remarks
dinner

29 Aug, Sunday

Departure