



24th Solvay Conference on Physics

“Quantum Theory of Condensed Matter”
Scientific Programme

The whole event takes place at the hotel Métropole. The conference room is the “Excelsior Room”.

In the tradition of the Solvay Conferences, this is a discussion oriented meeting with few “rapporteur” talks. How the discussions will proceed is determined by the conference chair and the session chair, who will give further information in due time.

Lunches are from 12:00 to 2:00 pm.



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Saturday 11 October 2008

Morning (9:00 am - 12 am)

9:00 am 9:15 am *“Opening”* by MARC HENNEAUX (ULB & Solvay Institutes),
DAVID GROSS (KITP) & BERTRAND HALPERIN (Harvard
University)

Session1: *“Mesoscopic and disordered systems”*

Chair: DANIEL LOSS (University of Basel)

Rapporteur: BORIS ALTSHULER (Columbia University)

9:15 am 10:30 am Talk & Discussion part I
10:30 am 11:00 am Coffee break
11:00 am 12:00 am Discussion part II

Afternoon (2 pm - 5 pm)

Session 2: *“Exotic phases and quantum phase transitions in model
systems”*

Chair: ANTOINE GEORGES (Ecole Polytechnique, Palaiseau)

Rapporteur: SUBIR SACHDEV (Harvard University)

2:00 pm 3:30 pm Talk & Discussion part I
3:30 pm 4 :00 pm Coffee break
4:00 pm 5:00 pm Discussion part II



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Sunday 12 October 2008

Morning (9:00 am - 12 am)

Session 3: “Experimentally realized correlated-electron materials”

Chair: MAURICE RICE (ETH Zurich)

Rapporteur: CATHERINE KALLIN (McMaster University)

9:00 am	10:30 am	Talk & Discussion part I
10:30 am	11:00 am	Coffee break
11:00 am	12:00 am	Discussion part II

Afternoon free

(Public Event)



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Monday 13 October 2008

Morning (8:30 am - 12:10 am)

Session4: “Quantum Hall systems, and one-dimensional systems”

Chair: JOHN CHALKER (University of Oxford)

Rapporteurs: ADY STERN (Weizmann Institute of Science) and IAN AFFLECK (University of British Columbia)

8:30 am	10:00 am	Talk & Discussion part I
10:00 am	10:30 am	Special session with His Royal Highness Prince Philippe, speaker BERTRAND HALPERIN (Harvard University)
10:30 am	11:10 am	Coffee break
11:10 am	12:10 am	Discussion part II

Afternoon (2 pm - 5 pm)

Session 5: “Systems of ultra-cold atoms, and advanced computational methods”

Chair: PETER ZOLLER (University of Innsbruck)

Rapporteurs: IMMANUEL BLOCH (Johannes Gutenberg-Universität) and STEVEN R. WHITE (University of California Irvine)

2:00 pm	3:30 pm	Talk & Discussion part I
3:30 pm	4 :00 pm	Coffee break
4:00 pm	5:00 pm	Discussion part II