

JULY 24

Afternoon session:

2:25 - 2:30 Welcome and opening remarks

2:30 - 3:30 Hans Kosina (TU Wien)

“Application of the Wigner Function Formalism in Nanoelectronic Device Simulation”

3:30 - 4:00 Coffee Break and Discussion

4:00 - 5:00 Anton Arnold (TU Wien)

“Open quantum systems in density matrix formalism: global well posedness of Hartree type models”

JULY 25

Morning session:

9:30 - 10:30 Felix Finster (Regensburg)

“A variational principle in discrete space-time”

10:30 - 11:30 Jan Dereziński (Warszawa),

“Quadratic Hamiltonians and their renormalization”

11:30 - 11:45 Coffee Break and Discussion

11:45 - 12:45 Heribert Zenk (München)

“Photoelectric effect”

Afternoon session:

Overview talk: 2:15-3:15 talk , 3:15 - 4:00 Coffee break, 4:00 - 5:00 talk

Israel Michael Sigal (Toronto)

“Renormalization group and scattering theory of electrons and photons”

JULY 26

Morning session:

Overview talk: 9:30-10:30 talk, 10:30-11:15 Coffee break, 11:15-12:15 talk

Eric Sere, CEREMADE

“The Bogoliubov-Dirac-Fock model for molecules”

Afternoon session:

2:00 - 3:00 Christian Hainzl (Birmingham, Alabama)

“On minimization methods for relativistic spin- $\frac{1}{2}$ particles in mean-field approximation”

3:00 - 4:00 Tadahiro Miyao, (München)

“Lowest energy states in nonrelativistic QED: atoms and ions in motion”

4:00- 4:30 Coffee Break and Discussion

4:30 - 5:30 Annalisa Panati, (Paris) “Ground state for the massless Nelson model under binding condition”

JULY 27:

Morning session:

10:00 -11:00 Heide Narnhofer (Wien)

“The effect of multicorrelations on entanglement”

11:00 - 11:30 Coffee Break and Discussion

11:30 -12:30 Michele Correggi, (ESI)

“Rapidly Rotating Bose-Einstein Condensates in Strongly Anharmonic Traps”

Afternoon session:

2:30 - 3:30 Gianluca Panati (Munich) “Adiabatic decoupling of Quantum Dynamics”

3:30 - 4:00 Coffee Break and Discussion

4:00 - 5:00 Alain Joye (Grenoble)

“Asymptotics of repeated interaction quantum systems”

JULY 28

Morning session:

10: 00 - 11:00 Benjamin Schlein (Harvard)

“Asymptotic completeness for Rayleigh and Compton scattering”.

11:00- 11:30 Coffee Break and Discussion

11:30 - 12:30 Krzysztof Pachuki (Warszawa)

“Quantum electrodynamics of weakly bound atomic systems”

Afternoon session:

Overview talk: 2:15-3:15 talk, 3:15 - 4:00 Coffee break, 4:00-5:00 talk

Jan Dereziński (Warszawa)

“Hypergeometric type functions and their symmetries”