

PROGRAM (preliminary version 12/02/05)

Monday

- 9h Registration (Coffee)
- 10h-11h: S. Graffi “Mean field approximation of quantum systems uniform with respect to the Planck constant”
- 11h15-12h15: J.F. Bony “Microlocal solutions of Schrödinger equations at a maximum point of the potential”
- 14h-15h: Y. Patel “Asymptotical model for far-from-equilibrium systems: non-linear 1D Schrödinger-Poisson systems with quantum wells”
- Coffee Break
- 15h30-16h30: G. Perelman Absolutely continuous spectrum of multi-dimensional Schrödinger operator with slowly decaying potentials.
- 16h45-17h45: V. Bonnaillie “Computing the steady states of an asymptotic model for quantum transport”

Tuesday

- 9h30-10h30 G. Jona-Lasinio “Spectral and KAM theory for some non linear Schrödinger equation”
- Coffee Break
- 11h-12h A. Sacchetti “Nonlinear double well Schrödinger equations in the semiclassical limit”
- 14h-15h Y. Castin “Ultracold fermionic atomic gases”
- 15h15-16h15 N. Ben Abdallah “WKB Schemes for the Schrödinger equation”
- Coffee Break
- 16h45-17h45 A. Aftalion “Vortex pattern for Bose Einstein condensates”.

Wednesday

- 9h-10h J. Rehberg “Some analytical ideas concerning the Quantum Drift Diffusion systems”
- 10h15-11h15 F. Dross “Multi-active region semiconductor laser modelling”
- Coffee Break
- 11h45-12h45 F. Hérau “Uniform bounds and exponential decay results for the Vlasov-Poisson-Fokker-Planck equation”

Thursday

- 9h30-10h30 O. Vanbésien “Modelling metamaterials-from ab initio to homogeneization techniques”
- Coffee Break
- 11h-12h A. Arnold “Nonlinear quantum kinetic equations: well-posedness analysis and dispersive effects”
- 14h-15h H.C. Kaiser “An open quantum system driven by an external flow”
- 15h15-16h15 L. Michel “Scattering amplitude for the Schrödinger equation with strong magnetic field”
- Coffee Break
- 16h45-17h45 A. Teta “On the asymptotic dynamics of a quantum system composed by heavy and light particles, with applications to decoherence”

Friday

- 9h-10h C. Presilla “Analytical probabilistic approach to the spectral properties of many-body lattice quantum systems.”
- 10h15-11h15 E. Amar-Servat “A non linear eigenvalue problem arising from Zakharov-Shabat systems”
- Coffee Break
- 11h45-12h45 J. Fröhlich “Thermodynamics and quantum statistical physics-one century after Einstein”.