

QFS Satellite workshop

“Quantum Fluids and Solids: Neutrons and X-rays studies”

PROGRAMME

Saturday 7 August 2010

Sponsored by ILL and CNRS/UJF

9:20-10:00 ILL amphi, common with Workshop "Cold gases meet many-body theory"

- 9:20 Opening
- 9:30 **Wolfgang Ketterle**
Characterizing many-body systems by observing density fluctuations

10:10-18:00 ILL SEMINAR ROOM 1ST FLOOR

- 10:10 **Henry Glyde**
Bose-Einstein Condensation, phonon-roton modes and the Bose Glass phase in porous media

- 10:40 **Henri Godfrin**
Elementary excitations in liquid ^3He in two and three dimensions

11:10 COFFEE

- 11:40 **David Mateo**
Elementary excitations in superfluid ^3He - ^4He mixtures

- 12:10 **Nikolay Vasilev**
Neutron scattering from the free surface of He^3 - He^4 mixtures at low temperatures

12:30 LUNCH

- 14:00 **Souleymane Omar Diallo**
Quest for Bose-Einstein Condensation in solid helium

- 14:30 **Hans Lauter**
Rotons in solid helium

- 15:00 **Jacques Bossy**
Amorphous solid helium in porous media

- 15:30 **Keiya Shirahama**
 ^4He in nanoporous media: possible supersolid state and its coexistence with superfluid state

15:50 COFFEE

- 16:20 **Igor Poltavsky**
Thermodynamic and magnetic properties of ^3He monolayers: theory and experiment

- 16:50 **Kent Leung**
New source of ultracold neutrons from a superfluid ^4He converter

- 17:10 **Victor Efimov**
Impurity gels formed by D_2 and D_2O clusters in superfluid helium: usage of gel samples in He-II for production of ultra-cold neutrons

- 17:30 **Eckhard Krotschek**
Theoretical analysis of neutron and x-ray scattering data on ^3He

18:00 CLOSE OF MEETING