

International workshop

Montpellier, France, May 13-16, 2013

MIRO
and all that

Conference program

Monday, May 13

- 8:30 Meet @ main entrance, Université Montpellier 2
- 8:55 M. Dyakonov **Welcome**
- 9:00 R. Du *Microwave resonance on the edge of topological quantum wells*
- 9:35 M. Vavilov *Microscopic mechanisms of microwave photoresistance and nonlinear response resistivity*
- 10:10 A. Chepelianskii *Non local effects in zero-resistance states*
- 10:45 **Coffee break**
- 11:15 R. Mani *TBA*
- 11:50 D. Raichev *Thermally activated magnetoresistance oscillations*
- 12:25 S. Mikhailov *Microwave photoresistance and other nonlinear phenomena in a collisionless two-dimensional electron plasma*
- 13:00 **Lunch**
- 14:30 **Informal discussions**

Tuesday, May 14

- 9:00 J. Smet *Local probe studies of the MIRO*
- 9:35 D. Shepelyansky *Synchronization theory of microwave induced zero-resistance states*
- 10:10 D. Weiss *MIRO in density modulated two-dimensional electron systems*
- 10:45 **Coffee break**
- 11:15 M. Potemski *Graphite and its response to microwave excitations*
- 11:50 I. Dmitriev *Nonlinear transport in 2D systems with negative conductivity*
- 12:25 L. Engel *Transition between Wigner solids in wide quantum wells near $\nu = 1$*
- 13:00 **Conference photo**
- 13:10 **Lunch**
- 14:30 **Informal discussions**
- 19:30 **Workshop dinner: L'Oracle, 17 place du Millénaire**



Conference chairmen: M. Dyakonov (Montpellier, France), M. Zudov (Minneapolis, USA)

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Wednesday, May 15

- 9:00 S. Wiedmann *Non-equilibrium magnetotransport in multilayer electron systems*
- 9:35 A. Levin Gitman *Microwave-induced magneto-oscillations and zero resistance states in bilayer electron systems*
- 10:10 M. Khodas *Multiphoton processes in microwave photoresistance*
- 10:45 **Coffee break**
- 11:15 D. Konstantinov *Magnetotransport phenomena in electrons on helium under inter-subband and cyclotron resonances*
- 11:50 R. Haug *Magneto-resistance of high-mobility 2DEGs: What do we understand?*
- 12:25 D. Polyakov *Coulomb interaction-induced Aharonov-Bohm oscillations*
- 13:00 **Lunch**
- 14:30 **Open discussion "Microscopic mechanisms of MIRO"**

Thursday, May 16

- 8:30 X. Lei *Does quantum lifetime during MIRO originate from e-e interaction in high-mobility 2D semiconductor?*
- 9:05 S. Vitkalov *Nonlinear properties of 2D electrons in crossed electric and quantizing magnetic fields*
- 9:40 S. Studenikin *Zero bias anomaly in non-linear electron transport of high-mobility Hall-bar structures*
- 10:15 **Coffee break**
- 10:45 D. Kvon *Terahertz induced magneto-resistance oscillations in a high mobility 2D electron gas*
- 11:20 V. Volkov *Cyclotron parametric resonance and colossal response of microwave-irradiated 2DES*
- 11:55 M. Zudov *Giant microwave photoresistance effects in 2D electron gas*
- 12:30 **Conference closing**