



“Laboratory of Terahertz and Mid-Infrared Collective Phenomena in Semiconductor Nanostructures”
(TERAMIR)



Main Objectives Research on theory, growth, processing and research on Terahertz and Midinfrared (TERA-MIR) properties of novel semiconductor nanostructures with emphasis on Dirac like energy dispersion systems

Coordinators W. Knap (France)
C. Skierbiszewski (Poland)
V. Gavrilenko (Russia)

Main partners from France/Poland and Russia

Laboratoire Charles Coulomb (L2C) Université Montpellier (coordinator W. Knap)

Laboratoire Matériaux et Phénomènes Quantiques Université Paris Diderot-Paris7

Laboratoire National des Champs Magnétiques Intenses

Institute of High Pressure Physics of the Polish Academy of Sciences Warsaw, POLAND (coordinator C. Skierbiszewski)

Institute for Physics of Microstructures, Russian Academy of Science GSP-105, Nizhny Novgorod, 603950, Russia (coordinator V. Gavrilenko)

Laboratory of Epitaxial Technology from Molecular Beams of A_2B_6 compounds, Rzhanov

Institute of Semiconductor Physics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia

Project event LIA Meeting June 2/June3 2015
Starting date and time June 2 at 10 am
Finishing date and time June 3 at 5 pm
Place Institute of High Pressure Physics PAS (UNIPRESS)
Address Aleja Prymasa Tysiąclecia 98, Warszawa

Tuesday 02 June	
9:30 – 10:00	Welcome coffee/cakes
Welcome introduction	
10:00 – 10:30	Izabella Grzegory – Director of Institute of High Pressure Physics PAS
	Sebastien Reymond – French Embassy
	Jolanta Krzesniak – Polish Academy of Sciences
	Tomasz Dietl – Institute of Physics PAS
	Tadeusz Suski – Deputy Director for Research of IHPP PAS
First Session	
10:30 – 11:30	M. Orlita (LNCMI-CNRS, Grenoble)
	<i>Magneto-optics of massive Dirac electrons in Bi₂Se₃ and HgCdTe</i>
11:30 – 12:15	S. Dvorecki (RIS SBRAS, Novosibirsk)
	<i>MBE growth of HgCdTe layers</i>
Lunch break	
12:15 – 13:30	Lunch
Second Session	
13:30 – 14:00	G. Grabecki (IP PAS, Warsaw)
	<i>Nonlocal resistance and its fluctuations in microstructures of band-inverted HgTe/(Hg,Cd)Te quantum wells</i>
14:00 – 14:30	M. Majewicz (IP PAS, Warsaw)
	<i>Nanostructurization of HgTe/HgCdTe quantum wells</i>
15:00 – 15:30	F. Teppe (LC2 CNRS, Montpellier)
	<i>Recent results on probing of topological phases in HgCdTe and InAs/GaSb structures in Montpellier</i>
15:30 – 16:00	Coffee/cakes
	NEW LIA MEMBERS PRESENTATION
16:00 – 16:30	G. Fedorov (MSPU, Moscow)
	<i>Response of asymmetric graphene and carbon nanotube based nanostructures to THz radiation</i>
16:30-16:45	A. Shurakov (MSPU, Moscow)
	<i>Recent results on developing HEB and Schottky terahertz mixers for radioastronomy</i>
16:45-17:15	Y. Mityagin (LPI RAS, Moscow)
	<i>Carrier dynamics and stimulated terahertz transitions between Landau levels in cascade GaAs/AlGaAs quantum well structures with asymmetric period</i>
Conference dinner	

Wednesday 03 June	
9:30 – 10:00	Welcome coffee/cakes
First Session	
10:00 – 10:45	T. Story (IP PAS, Warsaw) <i>Band inversion in PbSnSe topological crystalline insulator</i>
10:45 – 11:30	M. Potemski (LNCMI-CNRS, Grenoble) <i>Electronic and phonon excitations in graphene as probed by magneto-Raman scattering</i>
11:30 – 12:15	V. Gavrilenko (IPM RAS, Nizhny Novgorod) <i>Long wavelength lasers based on narrow gap semiconductors and quantum well heterostructures</i>
Lunch break	
12:15-13:30	Lunch
13:30 – 14:15	C. Skierbiszewski (IHPP PAS, Warsaw) <i>Plasma assisted molecular beam epitaxy for nitride based optoelectronic devices</i>
Second Session	
14:15 – 15:00	S. Krishtophenko (IPM RAS, Nizhnij Novgorod) <i>Pressure tuning of phase transition in CdHgTe quantum well structures</i>
15:00 – 15:45	P. Kruszewski (IHPP PAS, Warsaw) <i>Vertical Schottky diodes on high quality bulk GaN</i>
15:45-16:30	W. Knap (IHPP PAS, Warsaw) <i>Plasma Oscillations in FETs & First Terahertz Scanners</i>
Closing	
16:30 – 17:00	Closing and coffee

Important information	
Lodging	10 single rooms were reserved with preferential prices in Hotel Ibis – Centrum Solidarności street 165, Warsaw
	Please contact organizing committee to reserve
Workshop organizing committee	G. Cywinski (gc@unipress.waw.pl) S. Yatsunenko (yatsun@unipress.waw.pl) C. Skierbiszewski (czeslaw@unipress.waw.pl)
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