



# Trilateral workshop on Hot Topics in HTSC: Fe-Based Superconductors

**Moscow-Zvenigorod, September 29 –  
October 2, 2013**

<http://hts-2013.lebedev.ru>



Ukraine (14)

Germany (19)

Russia (27):	LPI	11
	MSU	10
	Inst.Cryst . Moscow	2
	Inst.Met. Phys. E-burg	2
	ISSP, Chernogolovka	1
	Inst. Phys., Krasnoyarsk	1



# Trilateral workshop on Hot Topics in HTSC: Fe-Based Superconductors Is open



P.N.Lebedev Physical Institute of  
the Russian Academy of Sciences  
**Физический  
институт  
имени  
П.Н.Лебедева**  
Российской академии наук  
**Ф И А Н**



Dynasty  
[www.dynastyfdn.ru](http://www.dynastyfdn.ru)

[www.servicelab.ru](http://www.servicelab.ru)

**IMPORTANT:**  
***breakfast***

**Monday      9:00 - 10:00**

**Tuesday      8:00 – 9:00**

**Wednesday    8:00 – 9:00**

**FPS'14:**  
*Fundamental Problems of High temperature  
superconductivity*

*October 2014*

# P.N. Lebedev Physical Institute Department of HTS

**Synthesis, Crystal growth, Analytics, Research**



# Synthesis

Gd-1111

High pressure synthesis (HPPI & LPI)

BF(Co, Ni)A

Ampule synthesis

Crystal growth

*Prof. Yurii Eltsev, Kirill Pervakov, Vladimir Vlasenko*

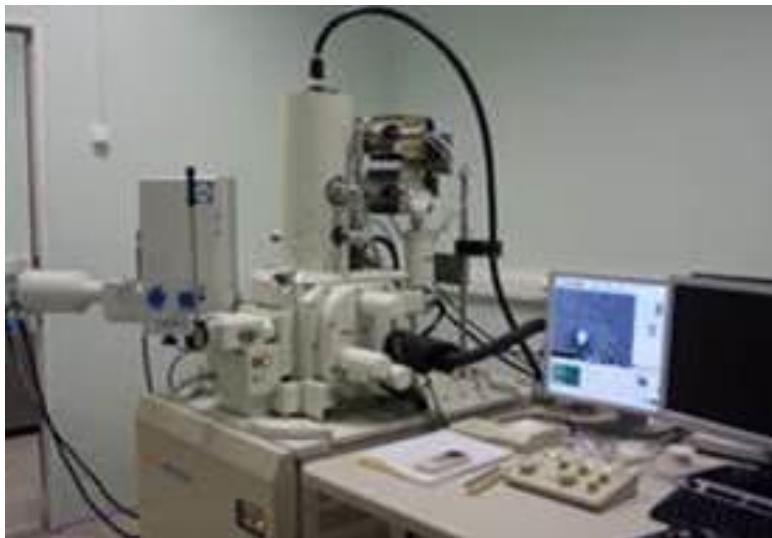
# Thin film deposition

*Dr. Andrey Varlashkin*



# Analytics

XRD *Prof. Victor Martovitskii*  
EDX *Kirill Pervakov*



# Research



**IR spectroscopy 3-300K**

*Prof. Yurii Aleshenko,  
Andrey Muratov*



**Transport, VSM magnetization,  
susceptibility in fields up to 21T**

*VP,  
Yaroslav Gerasimenko,  
Valeryi Prudkoglyad,  
Stefan Sanduleanu,*

# Research



**SQUID magnetometry**

*Andrey Sadakov  
Sergey Gavrilkin  
Alexei Tsvetkov*



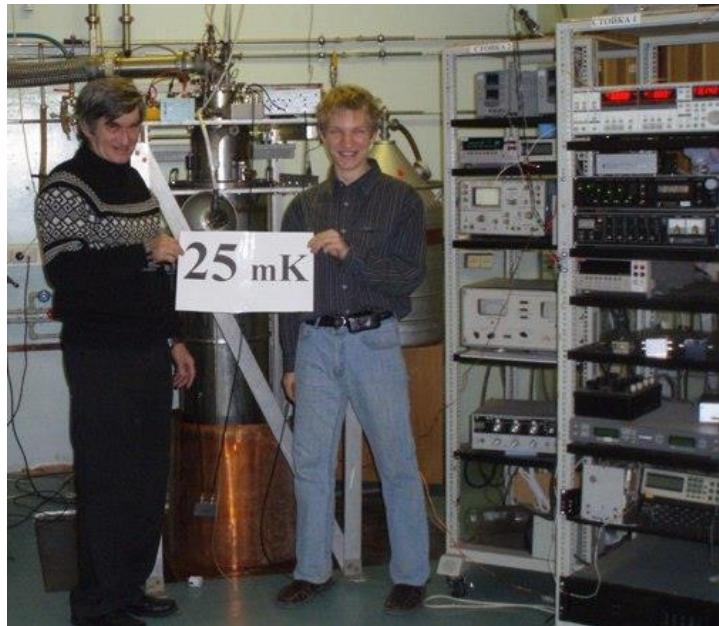
**PPMS-9**

*Dr. Kirill Mitsen,  
Dr. Olga Ivanenko,  
Sergey Gavrilkin  
Alexei Tsvetkov*

# Research at mK's

Single electronics,  
Nanomechanics

*Dr. Dmitri Knyazev*



**Andreev reflection spectroscopy (LPI & MSU)**

**Gd(Eu,Ce, Dy)-1111, 122, 111, 11**

*Tatiana Kuzmicheva,*

*Dr. Svetoslav Kuzmichev (MSU)*

*Alexei Usoltsev*

**Thermodynamics**

*Chemical potential,*

*Electron magnetization*

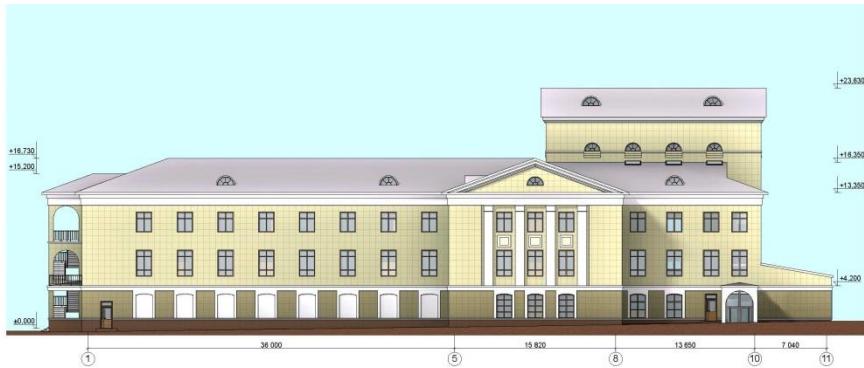
*Magnetostriction*

*Dr. Alexander Kuntsevich*

*Eugene Tupikov*

*Alexander Kharkovskii*

# V.L.Ginzburg Laboratory for HTS (at the LPI campus)





Thank you for attention !