



NOVOSIBIRSK
STATE UNIVERSITY



BUDKER INSTITUTE
of NUCLEAR PHYSICS

Laboratory of cosmology and elementary particles physics of NSU

Andrey Sokolov,

Novosibirsk State University and
Budker Institute of Nuclear Physics

RD51 Collaboration board meeting,
5 July 2013

Siberian Branch of RAS



Novosibirsk scientific center of SB RAS includes:

- ✓ 35 institutes;
- ✓ ~ 12000 scientific staff
- ✓ and one university.

Novosibirsk State University



NOVOSIBIRSK
STATE UNIVERSITY



- ✓ 6500 students;
- ✓ 13 faculties;
- ✓ 1800 teaching staff;
- ✓ Scientific division:
 - 16 research laboratories.

Laboratory cosmology and elementary particles research

- Laboratory was created in 2011 in the frame of grant of the Government of the RF - 11.G34.31.0047 (3.7 MEuro/ 3 years);
- There are two groups within the lab – theoretical and experimental;
- Theoretical group (11 peoples) – theoretical studies in the cosmology (dark matter, dark energy, supernova explosions simulations);
- Experimental group (10 peoples) – development of the low threshold CRAD for the dark matter and coherent neutrino search.

Laboratory of cosmology and elementary particles research



Alexander Dolgov, head of the laboratory
Professor at Uni Ferrara (Italy),
senior scientist at ITEP (Moscow)



Alexander Bondar, deputy
Professor at NSU,
Dean of the physics faculty of NSU,
Head laboratory at BINP



Alexey Buzulutskov, head of the experimental group,
Professor at NSU,
Senior scientist at BINP

Budker Institute of Nuclear Physics



- ✓ 2600 staff;
- ✓ 2 e^+e^- colliders;
- ✓ 5 NSU chairs;
- ✓ CRAD lab.

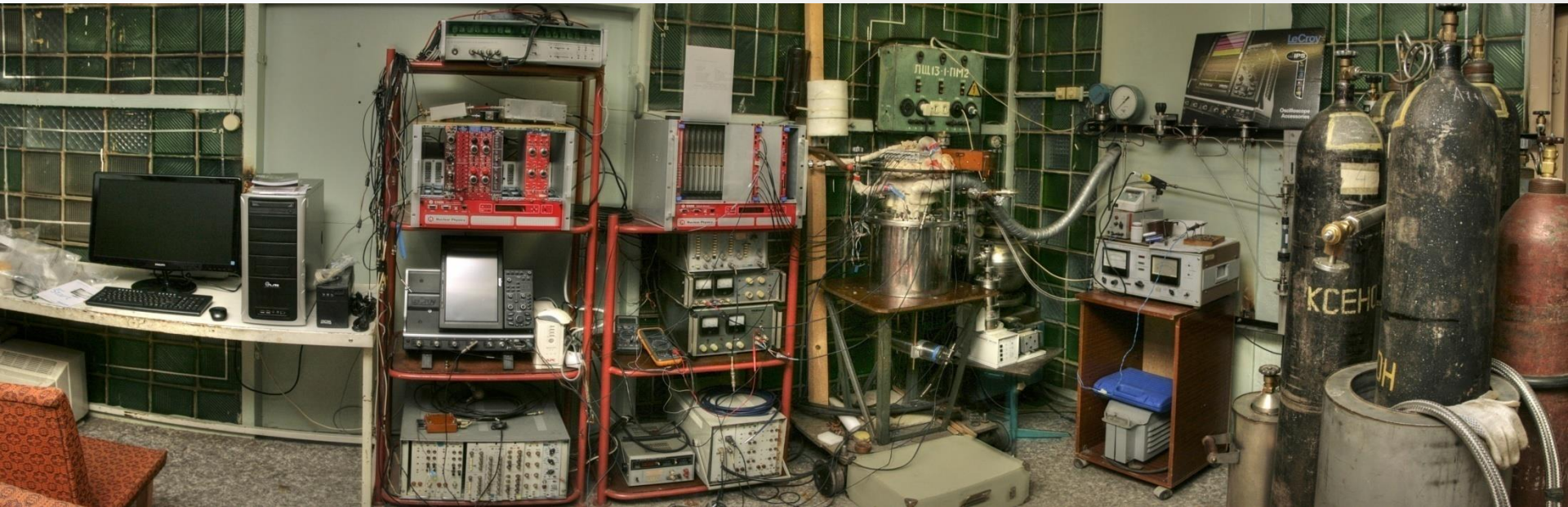
CRAD Laboratory at BINP

Cryostat for 160 l CRAD prototype



Future clean room

CRAD Laboratory at BINP



CRAD Laboratory activities

- CRADs development;
- RnD on GEMs, THGEMs, G-APDs.

CRAD Laboratory members

Alexander Bondar,
Alexey Buzulutskov,
Lev Shekhtman,
Andrey Sokolov,
Sergey Peleganchuk,
Viktor Ghilich,
Vacheslav Snopkov,
Roman Belousov



BINP and NSU staff