

Dear Colleagues,

The 13th International Workshop
"Cryogenic Nanosensors"

will be held in Bjorkliden, Kiruna, Sweden, on March 20-27, 2011. The workshop belongs to a series of workshops with wide topics: ">From Andreev Reflection to the Earliest Universe".

<http://www.chalmers.se/mc2/bjorkliden11-en/>

The workshop will be organized by Chalmers University, Gothenburg, Sweden.

The workshop will be devoted to the progress in recent development of a new generation of ultra-sensitive detectors for cosmology and other experiments, the development of novel devices operating with nonequilibrium effects at nanoscale and possible applications. Special attention will be paid to Cold-Electron Bolometers, Andreev Interferometer as a readout and Thermo-Electric Effects in superconductors. The Workshop aims at reviewing the fundamentals and outlining the research perspectives on the use of these systems which have very complex physics. All aspects of the physics of systems made of small circuits and large arrays of nano-elements will be covered. Special attention will be paid to applications of nanosensors for the balloon polarimeter Boomerang and the Space Observatory Millimetron.

1. Ultrasensitive detectors for IR and submillimeter waves 2. Thermo-Electric Effects in Superconductors and Thermo-Electric Bolometers 3. Electron cooling by SIN tunnel junctions; Cryogenics 4. Readout systems; Andreev Interferometer as a readout; multiplexing; 5. Quasioptics and HF coupling with bolometers; HF Filtering; coupling with bolometers 6. Distributed Focal Plane Arrays of Bolometers 7. Radioastronomy in mm/submm/IR regions 8. Novel electronics based on graphene, 9. Applications to quantum computing 10. T-rays and THz imaging;

Registration and Fees

All registration will be done using the online registration form which can be accessed from this link.

Registration fee - 150 Euros.

The costs of hotel and meals per person (arriving - March 20, departure - March 27) will be

- 870 Euros for staying in cottage (based on 2 pers/cott)
- 610 Euros for staying in cottage (based on 4 pers/cott)
- 900 Euros for single room (only 6 rooms are available)
- 1080 Euros for double room as a single room for 1 person (6 rooms are available)

- 790 Euros for staying of 2 persons in twin room (price per person)

If you plan to have longer stay please contact organizers for additional booking and correction of the price.

Please use the online registration form to register and to upload your abstract.

Deadline for registration - November 23

Confirmation of acceptance - November 30

Deadline for payment - December 7

The workshop will be organized in a spectacular place: Bjorkliden, Kiruna, 200 km off Polar Circle.

We usually combine scientific sessions with exciting physical activities: building record snow Igloo, skiing, ... Some information about our previous workshops can be found at

<http://fy.chalmers.se/~kuzmin/Workshops/Workshops.html>

For details concerning the Workshop programme and registration, please contact Leonid

Kuzmin, leonid.kuzmin@chalmers.se,

Marie Fredriksson marie.fredriksson@chalmers.se -

registration

For information about the venue, facilities, accommodation and travel arrangements, please contact Mikhail

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WWW:

<http://www.chalmers.se/mc2/EN/laboratories/quantum-device-physics>

<http://fy.chalmers.se/~kuzmin/>