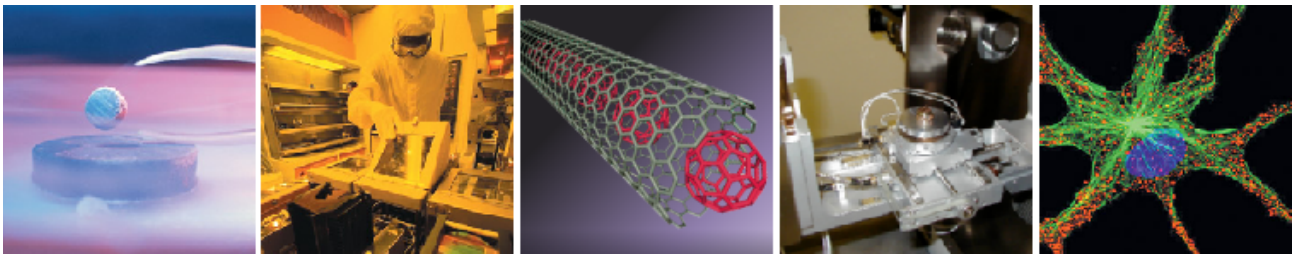
Fysikum

Superconducting Spintronics Alternative

SPINTECH Winter School,
03-04 February 2022, Stockholm, Sweden

This event is supported by the European Union H2020-WIDESPREAD-05-2017-Twinning project "SPINTECH", grant agreement Nr. 810144:

"Boosting the scientific excellence and innovation capacity in spintronics of the D. GHITU Institute of Electronic Engineering and Nanotechnologies, Moldova"



Organizing committee

Prof. Anatolie Sidorenko, IEEN Chisinau, Moldova (coordinator of the project)
Prof. Alexander Golubov, Uni-TWENTE, Enschede, Netherlands (responsible for the program of the school)
Prof. Vladimir Krasnov, Uni-Stockholm, Sweden (director of the school)
Dr. Evgheni Antropov, IEEN Chisinau, Moldova (scientific secretary of the school)

Location: Seminar room A2:1041 of the Stockholm University, str. Roslagstullsbacken 21 , Stockholm

PROGRAM

03.02.2022, Thursday, First Day of the school

9:00 - 14:00 Registration of participants in the entrance hall of Stockholm University
15:00 Opening of the Meeting – Prof. Anatolie Sidorenko Coordinator of the SPINTECH project.
Project SPINTECH – results and networking.
15:30 Superconducting basic elements for non-von Neumann computers. Lecture of Prof. Soloviev Igor and Prof. Klenov Nikolai (co-reporters), Moscow State University, Russia.

16:15 **Coffee break**

16:30 Polarized Neutron Reflectometry as a powerful tool for layered hybrid nanostructures investigation. Lecture of Dr. Yuri Khaydukov. Max-Planck Institute Stuttgart, Germany.

17:45 **Round table discussion of the spintronics highlights. All participants.**

18:30 **Welcome party.**

04.02.2021, Friday, Second Day of the school

10:00 Smart methods of nanostructures fabrication for spintronics. Lecture of Prof. Anatolie Sidorenko, IEEN, Moldova
10:30 Kinetic inductivity in layered nanostructures. Lecture of Dr.Sergei Bakursky, Moscow State University, Russia.

11:00 **Coffee break**

11:30 Nanofabrication of functional nanostructures using FIB process. Dr. Taras Golod. Stockholm University, Sweden.
12:00 In-situ analysis of magnetic states in nanostructured S/F heterostructures. Lecture of Prof. Vladimir Krasnov, Stockholm University, Sweden.

12:30 **Lunch break**

14:00 Ultra-low energy signals detection using superconducting circuits. Lecture of Prof. Leonid Kuzmin, Chalmers University of Technology,SE-412 96 GOTHENBURG, SWEDEN
14:30 Josephson and proximity effects in superconductor/ferromagnet junctions. Lecture of Prof. Alexander Golubov, UTwente, Netherlands

15:45 **Round table discussion of the horizons of spintronics – all participants.**

17:00 – 19:00 Outreach activity – visit of the Stockholm messe center (all participants)

20:00 **Conference dinner**

List of participants

Prof. Anatolie Sidorenko – coordinator of the project (IEEN)
Prof. Vladimir Krasnov – leader of the SU group (SU)
Prof. Alexander Golubov – leader of UTWENTE group
Dr. Elena Condrea – head of the Cryogenic Laboratory, project member (IEEN)
Dr. Roman Morari – project member (IEEN)
Dr. Vladimir Fedorov – project member (IEEN)
Dr. Evgheni Antropov – project member (IEEN)
Dr. Andrei Prepelita – project member (IEEN)
Dr. Alexander Penin – project member (IEEN)
Dr. Oleg Bujor – project member (IEEN)
Dr. Taras Golod – project member (SU)
PhD student Evgenii Borodianskyi, project member (SU)
PhD student Elena Kapran – project member (SU)
PhD student Tairzhan Karabassov – project member (UTWENTE)
PhD student Vladimir Boian – project member (IEEN)
PhD student Maria Lupu – project member (IEEN)
PhD student Margarita Pischenko – project member (IEEN)
Researcher Tatiana Prepelita – project member (IEEN)
Researcher Igor Belotserkovschi – project member (IEEN)
Researcher Daniil Karaghenov – project member (IEEN)
Researcher Vladimir Smyslov – project member (IEEN)

http://nanotech.md/ SPINTECH-SCHOOL-2022