NOMATEN SPECIAL SEMINARS: HADRON THERAPY + EaPConnect 2

Friday, JANUARY 28th 2022 11:00 - 13.00 (11.00AM-1.00PM CET)

www.gotomeet.me/NCBJmeetings/nomaten-seminar + NCBJ, PNT (Science and Technology Park)

1. Hadron Therapy Center (HTC) at the Kutaisi International University

Prof. Revaz Shanidze, Tbilisi State University (TSU) - Associate professor, leading researcher at High Energy Physics Institute of TSU; Kutaisi International University (KIU) - Head of research and technical projects

2. EU4Digital Programme: Connecting research and education communities (EaPConnect 2)

Prof. Ramaz Kvatadze, Executive Director of the Georgian Research and Educational Networking Association GRENA

BIO: Prof. Revaz Shanidze

Revaz Shanidze is currently an associate professor at the Tbilisi State University (TSU) and a member of the University Academic Council. He is a leading researcher in the High Energy Physics Institute of TSU and head of the local groups in the international KM3NeT and MPD collaborations. Since 2020 he is also at Kutaisi International University(KIU), where he is a head of research and technical programs of KIU.

He graduated from the Physics Faculty of Tbilisi State University in 1979 and completed his PhD thesis in 1990 and habilitation in 2006. He took part in several experimental projects in particle physics and astropartcle physics, including search for the charmed and exotic particles at the Serpukhov accelerator (collaboration BIS2), CMS experiment at LHC, experiment HERMES at HERA in DESY, and ANTARES and IceCube collaborations (high energy neutrino astronomy).

Currently he is leading TSU groups in the international KM3NeT collaboration (project of the neutrino physics and astrophysics in the Mediterranean Sea) and MPD experiment at the NICA collider of JINR.

He is an author and co-author of more than 200 scientific publications.

Revaz Shanidze's working experience includes JINR, Russia, where he was a senior researcher in 1994-1996; CERN (1994-1997) and DESY (Zeuthen, 1996-1999), where he was invited researcher. In 2000-2012 Revaz Shanidze was working in the University of Erlangen-Nuremberg (Erlangen, Germany) and in 2012-2014 in DESY-Zeuthen (Germany).

ABSTRACT: Hadron Therapy Center (HTC) at the Kutaisi International University

Hadron Therapy Center (HTC) at the Kutaisi International University in Georgia, will be equipped with 2 superconducting synchro-cyclotrons IBA S2C2, providing maximum energy of accelerated protons 230 MeV. One of these accelerators is part of IBA single gantry Proteus©ONE system for the proton therapy, while the other one is the main device for a new research infrastructure at Kutaisi International University in Georgia. The HTC is funded by the International Charity Foundation Cartu, the largest charity foundation in Georgia. Opening of HTC is planned for 2024. Research with the proton beam in the 70-230 MeV energy range is foreseen in multiple disciplines, including basic and applied nuclear physics, radiation biology and medicine as well as material sciences and detector development and testing. As the only cyclotron-based research facility in Georgia and South
Caucasus, HTC will become a research hub for international projects.
The Status of the HTC at the Kutaisi International University and the cooperation options will be presented in the talk.

BIO: Prof. Ramaz Kvatadze

Short bio - Professor Dr. Ramaz Kvatadze graduated from the Moscow State University and conducted his research in high-energy physics at several leading scientific centres in Russia, Denmark, Switzerland and France. During 1996–2001 he was Deputy Director of the High Energy Physics Institute of the Tbilisi State University. Since 1999, Ramaz Kvatadze has been Executive Director of the Georgian Research and Educational Networking Association GRENA, and has

participated in numerous international projects. He is co-author of 116 publications.

ABSTRACT: EU4Digital Programme: Connecting research and education communities (EaPConnect 2)

The “Eastern Partnership Connect” EaPConnect project was first launched by the European Union in 2015 to improve EaP connectivity and facilitate participation of local scientists, students and academics in EU and global Research and Education collaborations.
The specific objectives of the current EaPConnect 2 project lunched in 2020 are following:
•To extend network infrastructure (digital highways) to scale-up scientific exchange across countries.
•To increase the use of IT services implemented under first EaPConnect project and implement new services to enhance international cooperation in R&E.
•To strengthen EaP NRENs’ position in the national R&E ecosystem.
The current status of the project together with use cases of established infrastructures and cooperation options will be presented.