



International

Baltic Workshop 2019

«Compact X-Ray Sources,
Technology and Application»

PROGRAM

19-20 November 2019, Kaliningrad, Russia



Immanuel Kant
Baltic Federal
University



IRC XCO





PROGRAM

November 19, Tuesday

Welcome and opening remarks
(09:00 - 09:20)



09:20 - 10:00 Christopher BARTY
(University of California, USA / Lumitron Technologies, USA)
"Compact Laser-Compton Light Sources for Nuclear Photonics"

10:00 - 10:40 Igor ARTYUKOV
(Lebedev Physical Institute RAS, Russia)
"Design of Compton X-ray sources for material science and technology"

Coffee
(10:40 - 11:10)



11:10 - 11:50 Michael FESER
(Lyncean Technologies, USA)
"The Lyncean Compact Light Source - A turnkey commercial ICS X-ray Source"

11:50 - 12:30 Regine GRADL
(MuCLS, Technical University of Munich, Germany)
"Multimodal X-ray Imaging at the Munich Compact Light Source"

Lunch
(12:30 - 13:30)



13:30 - 14:10 Gleb BOURENKOV

(EMBL, Hamburg c/o DESY, Germany)

"X-ray imaging and tomography for bio-applications at the European Molecular Biology Lab in Hamburg"

14:10 - 14:50 Irina SNIGIREVA

(ESRF, France)

"High Energy X-ray Microscopy"

Coffee

(14:50 - 15:30)



15:30 - 16:10 Alexander POTYLITSYN

(Tomsk Polytechnic University, Russia)

"Monochromatic X-ray source based on Compton backscattering mechanism. Conversion efficiency"

16:10 - 16:50 Alexey TISHCHENKO

(National Research Nuclear University MEPhI, Russia)

"Compton inverse scattering as a coherent X-ray source"

16:50 - 17:30 Sergey RYKOVANOV

(Skolkovo Institute of Science and Technology, Russia)

"Compact intense narrowband X- and gamma-ray sources based on nonlinear Compton scattering"

Laboratory Excursion

(17:30 - 18:30)



Buffet reception

(18:30 - 21:00)



November 20, Wednesday

09:00 - 09:40 Michael JENTSHEL

(ILL, France)

"Instrumentation and applications of a tunable high energy photon source"

09:40 - 10:20 Nikolay MUCHNOI

(Budker Institute of Nuclear Physics of SB RAS, Russia)

"Inverse Compton Scattering at Budker INP: experiments & prospects"

Coffee
(10:20 - 11:00)



11:00 - 11:40 Nikolay VINOKUROV

(Budker Institute of Nuclear Physics of SB RAS, Russia)

"Multifunction university-scale x-ray source with 1.5 GeV storage ring"

11:40 - 12:10 Yulia MASLOVA

(Lebedev Physical Institute, RAS, Russia)

"Optical system of Thomson source"

12:10 - 12:40 Lubov OVCHINNIKOVA

(Lomonosov Moscow State University, Russia)

"New design of storage ring for Compton X-ray source"

Lunch
(12:40 - 13:40)



13:40 - 14:20 Nikolay CHKHALO

(Institute for Physics of Microstructures RAS, Russia)

"High-precision multilayer X-ray mirrors: manufacturing and characterization"

14:20 - 15:00 Anatoly SNIGIREV

(Immanuel Kant Baltic Federal University, Russia)

"Coherent X-ray optics and microscopy for advanced material research applications"

Coffee
(15:00 - 15:30)



Open discussion and closing of the workshop
(15:30 - 16:30)

