Session Program

12-24 Aug 2018



XIV-th International School-Conference "Actual Problems of Microworld Physics"

Talks

Belarus, Grodno region Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel website: http://ozerny.by/ glavnaya_en/

Thursday 16 August

16:00	Talks Session Location: Belarus, Grodno region, Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel website: http://ozerny.by/glavnaya_en/
	16:00-16:35 Neutronics of ADS: YALINA Facility
	Speaker Anna Kievitskaya
	16:35-17:10 New concept of ADS with light ions
	Speaker
	Anton Baldine
	17:10-17:30
	Emitters decay for thermal reactor within particles birth and death model
	Speaker
	Maksim Kravchenko
	17:30-18:00 The COMET Level-1 Calorimeter trigger
	Speaker
	Dzmitry Shoukavy
	18:00-18:30
	Fast numerical scheme with GPGPU usage for Uehling-Ulenbeck equation
	treatment
	Speaker
	Ivan Siutsou
19:00	

Friday 17 August

14:00

Talks Session

Location: Belarus, Grodno region, Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel website: http://ozerny.by/glavnaya_en/

14:00-14:45

The structure and evolution of the Universe. Illusion or understanding?

Speakers

Oleg Boyarkin, Galina Boyarkina

14:45-15:15

Maxwell's principle of positive-definite energy density and the failure of vector gravity

Speaker

Anatoly Serdyukov

15:15-15:30

Gravitational nature of the dark energy and cosmological redshift in nonexpanding universe and their cyclic history

Speaker

Maria Serdyukova

15:30-15:50 Break

15:50-16:35

The decays processes of the Higgs and Z bosons with lepton flavor violation

Speakers

Oleg Boyarkin, Galina Boyarkina

16:35-17:20

Application of Bardin-Shumeiko approach for estimating radiative effects in lepton-nucleon scattering

Speaker

Alexander Ilyichev

17:20-17:50 Analytical model of a many-electron atom

Speaker

Aliaksandr Leonau

17:50-18:20 Feasibility study of direct photon production process at FAIR energy

Speaker

Anna Skachkova

18:40

Monday 20 August

14:00	Talks Session Location: Belarus, Grodno region, Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel website: http://ozerny.by/glavnaya_en/
16:50	14:00-14:30 High-precision methods for Coulomb, linear confinement and Cornel potentials in momentum space Speaker Victor Andreev
	14:30-15:00 Collective emission in Dirac structures Speaker Konstantin Batrakov
	15:00-15:30 Relativistically Invariant Self-Similarity Approach for Description of Collective Phenomena Speaker Elina Baldina
	15:30-15:50 Break
	15:50-16:25 Electrophysical response of Langmuir-Blodgett thin films from carbon-nanotubes decorated by organometallic-compound to ionizing low-energy gamma irradiation Speaker Halina Krylova
	16:25-16:50 A new nanoporous material based on SiO2/Si Speaker Aliya Alzhanova

Tuesday 21 August

http://ozerny.by	/glavnaya_en/
14:00-14:30	P NNLO radiativo corrections for Droll Yan processos at LHC
Speaker	SR NNLO radiative corrections for Drell-Yan processes at LHC
Vladimir Zykur	ιον
14:30-15:00	Invistigation of Drell-Yan processes with the CMS detector at th
Speaker	
Vladislav Shala	aev
15:00-15:30	
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17:15-17:45

Deep recurrent networks for searching particle tracks in 3D detector's space

Speaker Pavel Goncharov

18:40

Wednesday 22 August

Talks Session Location: Belarus, Grodno region, Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel webs 14:00-14:40 TBA Speaker Alexander Lobko 14:40-15:20 On the deflection of charged particles in oriented crystals accompanied by radiation Speaker Alexei Sytov 15:20-15:40 The features of electromagnetic shower development in oriented crystals Speaker Viktar Haurylavets 15:40-16:00 Break 16:00-16:25 TBA Speaker Location and capture reaction rates over the volume of massive uranium target under relativistic p, d and 12C irradiation Speaker Alina Zhadan	Session I Location: Belarus, Grodno region, Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel we 14:00-14:40 TBA Speaker Alexander Lobko 14:40-15:20 On the deflection of charged particles in oriented crystals accompanied by radiation Speaker Alexei Sytov 15:20-15:40 The features of electromagnetic shower development in oriented crystals Speaker Viktar Haurylavets 15:40-16:00 Break 16:00-16:25 TBA Speaker Leonid Babichev 16:25-16:45 Experimental study of fission and capture reaction rates over the volume of massive uranium target under relativistic p, d and 12C irradiation Speaker Alina Zhadan 16:45-17:15 Experimental study of fission and capture reaction rates over the volume of massive uranium target under relativistic p, d and 12C irradiation		
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17:15

Svetlana Sytova

Thursday 23 August

09:30

Talks Session

Location: Belarus, Grodno region, Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel website: http://ozerny.by/glavnaya_en/

09:30-10:00

Identification of particle interactions structure in experiments with polarized positron and electron beams at Linear Collider

Speaker

Alexander Babich

10:00-10:25

Form Factor for a System of the Two Fermions in the Relativistic Quasipotential Approach: Case of an Equal Masses and a Scalar Current

Speaker Yuri Chernichenko

10:25-10:40

Quasipotential equations solutions for three dimensional harmonic oscillator in relativistic configurational representation

Speaker Yury Hryshechkin

10:40-11:00

Computation of the propagator of a multiphoton vertex in the form of an algebraic sum of mean values

Speaker Evgenii Reznikov

Ligennikezinkov

11:00-11:20 Break

11:20-11:50 Rare decays of strange mesons

Speaker Sergey Avakyan

11:50-12:20 Scalar mesons as two and four-quark states

Speaker

Elena Avakyan

12:20-12:45

Poincare-covariant quark model of electroweak decays of light mesons

Speaker

Vadzim Haurysh

12:45-13:00

Resonance states of two particle relativistic systems for potentials with smooth "barrier"

13:00	Speaker Sergey Fialka
14:00	Talks Session Location: Belarus, Grodno region, Sanatorium "Ozerny", 231753, Grodno region, p/o Ozery, Belarus Hotel website: http://ozerny.by/glavnaya_en/
	14:00-14:40 The canonical scalar massive field as a long-range gravity and the cosmic evolution of the gravitational constant Speaker Maria Serdyukova
	14:40-15:10 The corrections for one dimensional model of helical flux compression generators from two dimensional model Speaker Viktar Haurylavets
	15:10-15:30 Magnetized quark-gluon plasma at the LHC Speaker Pavlo Minaiev
15:50	15:30-15:50 Break