

Synchrotron and Free electron laser Radiation: generation and application «SFR-2018»



June 25-28, 2018

Budker Institute of Nuclear Physics SB RAS,
Novosibirsk, Russia

Conference booklet

Co-hosted by



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- **A badge with your name is your pass to the Institute. Please show it to the security when you come in and come out to the Institute!**
- All plenary Sessions take place in the Conference Hall (4th floor of the BINP main building). The Organizing Committee is located in room 331 of the main building, tel. 329-47-45.
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- List of Restaurants and cafeteria in Akademgorodok
<http://ssrc.inp.nsk.su/CKP/userdoc/cafe.html>



Bus schedule during the Conference:

Monday 25/06/2018

8:45 from the hotels to the BINP

20:00 from the BINP canteen to the hotels

Tuesday 26/06/2018

08:30 from the hotels to the BINP

18:45 from the BINP to the **hotel Park Wood**

Wednesday 27/06/2018

08:30 from the hotels to the BINP

16:50 from the BINP to the Theatre

... from the Theatre to hotels after show

Thursday 28/06/2018

08:30 from the hotels to the BINP

21:00 from the Restaurant to the hotels

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- Мы предлагаем Вам разместить **Ваш стендовый доклад на стенде** в понедельник и снять его в четверг. Обязательное присутствие рядом со стендом – во время стендовой сессии **в среду, с 15:40 до 17:00**. Номер Вашего стенда соответствует номеру в программе на стр. 12, первый столбик. **Не забудьте снять Ваш постер!** Оставленные на стендах постеры будут утилизированы.

- Оригиналы отчетных документов (счет-фактура, Акт) за официально сданный Вами оргвзнос Вы сможете получить в Оргкомитете в четверг, 28 июня. Если оргвзнос за Вас платила организация, то Вам необходимо в Вашей организации собрать подписи и поставить печати на Акте и в договоре, и вернуть один Акт и один Договор по адресу:

Кузину М.В., ИЯФ СО РАН, Лаврентьева, 11, Новосибирск 630090.

Monday, June 25

**ID – paper ID in Book of Abstracts.*

time		ID	Author, title
8:30	9:30		Registration
9:30	9:40		Conference opening
			Radiation sources and Centers: Part I Chairman Prof. Gennady N. KULIPANOV
9:40	10:20	157	Dr. Konstantin ZOLOTAREV , New light source for Novosibirsk Scientific Center, machine review
10:20	11:00	27	Prof. Kwang-Je KIM , Prospects of an X-ray FEL Oscillator driven by a SCRF linac or on a by-pass of a MBA Storage Ring.
11:00	11:30		Coffee
			Radiation sources and Centers: Part II Chairman Prof. Nikolay A. VINOKUROV
11:30	12:00	57	Dr. Oleg SHEVCHENKO , Novosibirsk Free Electron Laser Facility.
12:00	12:30	13	Dr. J. Michael KLOPF , Status of the FELBE THz/IR FEL Facility: Overview of the Machine Performance and User Activities.
12:30	13:00	-	Prof. Boris KNYAZEV , Status of the users activity at the NovoFEL.
13:00	13:10		Group photo (BINP main entrance)
13:10	14:00		Lunch
			Radiation sources and Centers: Part III Chairman Prof. Evgeniy B. LEVICHEV
14:00	14:30	156	Mr. Pavel PIMINOV , VEPP-4 storage ring as hard X-ray source for users.
14:30	15:00	2	Prof. Bocheng JIANG , SSRF beam line phase II project.
15:00	15:30	121	Dr. Adriana WAWRZYNIAK , Operational Status of SOLARIS Storage Ring.
15:30	15:50		Coffee

		ID	Radiation sources and Centers: Part IV Chairman Prof. Nikolay A. MESENTSEV
15:50	16:10	-	Dr. Vitaliy SHKARUBA , Development of superconducting insertion devices at BINP.
16:10	16:30	185	Dr. Pierre SCHNIZER , BESSY VSR Project: design status and project challenges.
16:30	16:50	30	Prof. Sergey MIGINSKIY , Headway on a Compact THz FEL at KAERI.
16:50	17:10	14	Prof. Nikolai PESKOV , Inter-cavity scattering schemes of planar THz-band FELs based on parallel intense moderately-relativistic sheet electron beams.
17:10	17:30	16	Prof. Andrei SAVILOV , THz undulator radiation of stabilized dense electron bunches.
17:30	17:50	134	Mr. Konstantin TORGASIN , Methods for counteracting of back-bombarding effect for thermionic RF guns.
18:00	20:00		Welcome party (BINP canteen)

Tuesday, June 26

		ID	Instruments and techniques for experiments with application the Synchrotron and FEL radiation. Part I. Chairman Dr. Konstantin KUPER
9:00	9:40	184	Prof. Anatoly SNIGIREV , Development of X-ray coherent optics for fourth generation synchrotrons and XFELs.
9:40	10:20	62	Prof. Vladimir PAVELYEV , Terahertz optical components for control of high-power FEL beams.
10:20	11:00	25	Prof. Victor ASADCHIKOV , X-ray reflectometry, microtomography and small-angle scattering in the study of not completely ordered systems.
11:00	11:20		Coffee
			Instruments ... Part II Chairman Dr. Vladimir NAZMOV
11:20	11:40	20	Dr. Alexey BUZMAKOV , Development of laboratory X-ray microtomography setups and tomography reconstruction algorithms.
11:40	12:00	21	Dr. Denis ZOLOTOV , X-ray diffraction imaging of 3D location of linear crystalline defects.
12:00	12:20	55	Mr. Evgeny KOZYREV , Thin scintillator CsI(Tl) films for precise tomography. Development and applications.
12:20	12:40	69	Mr. Artem KHEGAY , Diagnostics of modern synchrotron radiation sources based on refractive X-ray optics.
12:40	13:00	105	Mr. Anton TARGONSKIY , Development of hardware-methodological approaches for time-resolved control of synchrotron beam parameters by x-ray acoustooptics based on longwave ultrasound.
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14:40	15:20	108	Dr. Nikolai CHKHALO , Multilayer X-ray imaging optics in IPM RAS.
15:20	15:40	115	Dr. Sergey VEBER , X-band (9 GHz) Electron Paramagnetic Resonance station at the NovoFEL facility: sensing the spin dynamics induced by high-power THz pulses.
15:40	16:00		Coffee
			Part VI Chairman Dr. Konstantin ZOLOTAREV
16:00	16:30	-	Dr. Sergey PELTEK , Nonthermal impact terahertz radiation on the living systems.
16:30	16:50	160	Dr. Konstantin KUPER , Radioprotective effects of manganese oxide nanoparticles in the mice exposed to high X-rays doses.
16:50	17:10	22	Mr. Yuri KRIVONOSOV , Application of X-ray microtomography to the investigation of gallbladder stones.
17:10	17:30	165	Mr. Aleksandr LEGKODYMOV , The application of synchrotron radiation of the VEPP-4M storage ring for determine the concentrations of rare-earth elements in geological samples by the XRFA-SR method.
17:30	17:50	124	Mr. Mikhail ALEXANDRIN , Bottom sediments of the lake KarakyoI reveal a 2000-year climate variability in the western Caucasus.
17:50	18:10	117	Mr. Alexei GRACHEV , Employing a highly-sensitive synchrotron XRF technique for obtaining multielement geochemical records: the first continuous ~10-kyr record from a remote Caucasus mountains lake.
18:10	18:30	97	Dr. Anton NIKOLENKO , Synchrotron radiation metrological station "Cosmos" at the VEPP-4 storage ring: current status and prospects.

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9:20	9:50	152	Dr. TOLOCHKO Boris , Time-resolved X-ray diffraction experiment investigations of ultrafast processes in BINP. Status and perspectives.
9:50	10:20	-	Dr. Eduard PRUUEL , The using of SR for detonation and shock waves phenomena.
10:20	10:40	173	Dr. Konstantin TEN , The emission of microparticles from metal joints under shock wave influence.
10:40	11:00	107	Dr. SMIRNOV Evgenii , Polymethylmethacrylate double compression registration using SR.
11:00	11:20		Coffee
			Time resolved X-ray diffraction : Part II Chairman Evgeniy SMIRNOV
11:20	11:50	35	Dr. ARAKCHEEV Aleksey , Dynamical observation of X-ray Laue diffraction on single-crystal tungsten during pulsed heat load.
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12:40	13:00	-	Dr. Marat SHARAFUTDINOV , In situ diffraction for structural investigation.
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		ID	X-ray structural analysis Chairman Dr. Alexander SHMAKOV
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15:00	15:20	67	VOLKOV Yuriy , Analysis of suspended layer of alkali ions on a surface of silica sol by synchrotron X-ray reflectivity and scattering.
15:20	15:40	112	KUDIAROV Viktor , Application of short-wave diffraction of synchrotron radiation for X-ray diffraction study of the structural features and phase transitions during hydrogenation of titanium Ti-6Al-4V alloy additively produced by the method of electron beam melting.
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9:30	10:00	143	Dr. Vladimir KRIVENTSOV , Current status of EXAFS station of SSTRC. Possibilities of XAFS method to investigate challenging functional nanomaterials. Reality and perspectives in future.
10:00	10:30	49	Prof. Yuri MIKHLIN , XAFS, XPS, and Mossbauer spectroscopy studies of valleriite, nanocomposite mineral and a prototype for new low-dimensional chalcogenide materials.
10:30	11:00	38	Dr. Oleg TERESHCHENKO , Spin-Resolved Photoemission for the investigation of Rashba spin-splitting and topological surface states.
11:00	11:20		Coffee
			Spectroscopy. Part II Chairman Dr. Vladimir KRIVENTSOV
11:20	11:50	23	Dr. Evgeniy CHESNOKOV , The first observation of the free induction signals of OH radicals in the terahertz region.
11:50	12:20	32	Dr. Vitaly KUBAREV , Two types of coherency, fine mode structure, and obtaining of the ultramonochromatic tunable terahertz radiation on the NovoFEL.
12:20	12:40	11	Prof. Vladimir GREBENNIKOV , Resonant interatomic Auger transitions.
12:40	13:00	104	Dr. Simon ERENBURG , Microstructure of multilayer heterosystems containing Ge quantum dots with Mn in Si matrix by XAFS-spectroscopy.
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		ID	Spectroscopy. Part III Chairman Dr. Konstantin KUPER
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14:20	14:40	39	Dr. Igor ASANOV , Application of XANES and XPS in using synchrotron radiation in soft X-ray region for the study of the electronic structure of graphite and few-layered graphene fluorides.
14:40	15:00	42	Dr. Andrey SARAEV , In situ approach to investigations of CuFeAl-composite catalysts in catalytic oxidation of CO: X-ray adsorption spectroscopy.
15:00	15:20	48	Dr. Tatyana ASANOVA , Quick-XAFS as a tool for study of chemical processes.
15:20	15:40	59	Dr. Maxim LIKHATSKIY , A study of pre-nucleation intermediary structures arising in the reaction of H ₂ PtCl ₆ with sodium sulfide.
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			Spectroscopy. Part VI Chairman Dr. Alexander SHMAKOV
16:00	16:20	26	Dr. Petr KORUSENKO , Influence of structural defects, functional groups and dopant impurities on the electronic structure of multiwalled carbon nanotubes.
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17:00	17:20		Conference closing
18:00	21:00		Conference Dinner

Poster session

Wednesday, June 27, 15:40 – 17:00

*Please, put your poster on the cork board according to the “Board number” in the first column. *ID – paper ID in Book of Abstracts.*

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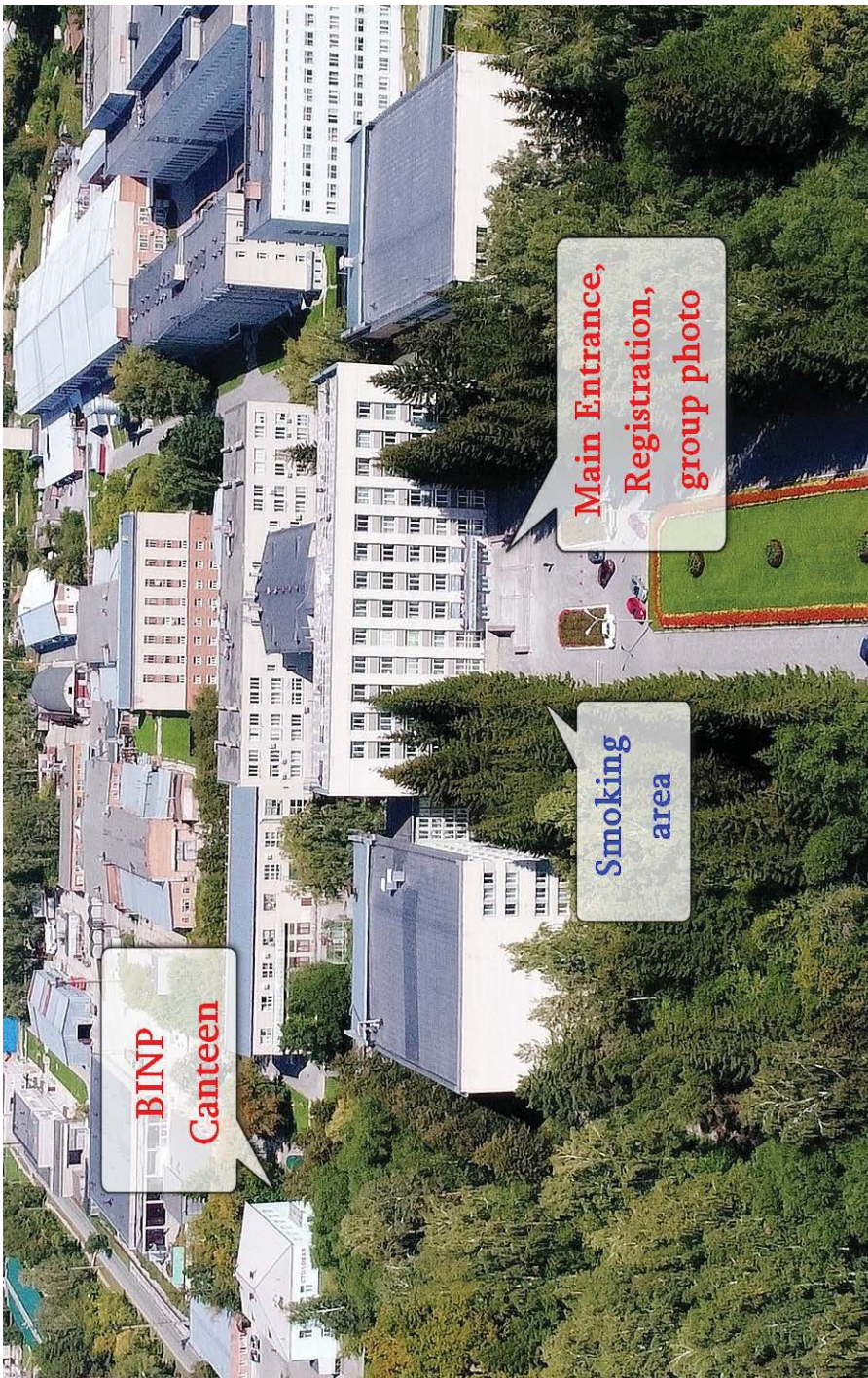
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**BINP
Canteen**

**Smoking
area**

**Main Entrance,
Registration,
group photo**