

Program **INFINUM 2025**

	Monday, 12.05		Tuesday, 13.05		Wednesday, 14.05		Thursday, 15.05		Friday, 16.05
10:30-11:20	Opening (Kazakov)	10:00-11:10	(35') Jolos	10:00-11:10	(35') Tretyakova	10:00-11:10	(35') Riabov	10:00-11:10	(35') Povolotsky
	Kolomeitsev		(35') Braguta		(35') Potekhin		(35') Turlapov		(35') Chugunov
11:20-11:40	Coffee	11:10-11:40	Coffee	11:10-11:40	Coffee	11:10-11:40	Coffee	11:10-11:40	Coffee
(70')	(35') Bratkovskaya	(70')	(35') Bleicher*	(70')	(35') Dzhioev	(70')	(35') Shternin	(70')	(35') Zakharov
	(35') Taranenko		(35') Waala Seif		(35') Ofengeim*		(35') Kalagov		(35') Teryaev
12:50-14:20	Lunch	12:50-14:20	Lunch	12:50-14:20	Lunch	12:50-14:20	Lunch	12:50-14:20	Lunch
(85')	(35') Ivanov	(85')	(35') Kireyeu	(85')	(25') Mikheev	(70')	(35') Punetha*	(70')	(35') Voskresensky
	(25') Mamaev		(25') Roenko		(30') Kraav		(35') Jaiswal		(35') Jayanta Dey
	(25') Mardyban		(25') Stepanov		(30') Mikhailova				
15:45-16:15	Coffee	15:45-16:15	Coffee	15:45-16:15	Coffee	15:30-16:00	Coffee	15:30-16:00	Coffee
(80')	(30') Kokoulina	(95')	(25') Zhokhov	(75')	(25') Kondratyev	(80')	(30') Grigorian	(80)	(30') Prokhorov
	(25') Kosarev		(25') Nguyen H. Vu		(25') Chitta Ranjan Das		(25') Lebedev		(25') Dlin
	(25') Friesen		(25') Kozhevnikova		(25') Borzov		(25') Pak		(25') Tsegelnik
			(20') Vishnevsky						
17:35	Discussion	17:50	Discussion	17:30	Discussion	17:20	Discussion	17:20	Discussion
18:30	Welcome party					19:00	Conference Dinner	18:20	Closing

* talk will be given by zoom.

The duration of the talk indicated in brackets includes 5 minutes for discussion

NUCLEUS

Tatiana Tretyakova,

Hypernuclear properties and hyperonic interactions

Semyon Mikheev

Many-body effects of hyperonic interactions in neutron stars

Maria Mardyban

Low-energy spectra of nobelium isotopes

Mikhail Kosarev

Description of nucleus-nucleus interaction using the Skyrme energy density functional

Nguyen Hoang Vu

Holographic model for neutron star with color superconductivity in the inner core

Rostislav Jolos

Nuclear energy-density functionals

Ivan Borzov

Modified Fayans functional. Constraints on nuclear matter EOS from the ground state properties and isovector response.

Tatiana Mikhailova

Description of low energy fragmentation reactions in the transport-statistical approach

Petr Vishnevsky

Individual toroidal dipole states in ^{58}Ni

HIC EXPRIMENT

Victor Riabov

Status and perspectives of the MPD detector program

Arkady Taranenko

Systematic study of anisotropic flow in relativistic heavy-ion collisions

Mikhail Mamaev,
Directed flow of protons and deuterons in heavy-ion collisions at BM@N

HIC THEORY

Marcus Bleicher (zoom)
Clusters production in HICs

Elena Bratkovskaya
Dynamical description of strongly interacting matter

Viktar Kireyeu
Cluster production as a probe of EoS in HICs

Amaresh Jaiswal
Spin polarization in heavy ion collisions and relativistic spin-hydrodynamics

D.N. Voskresensky,
Pions in peripheral collisions of heavy-ions

Yuri Ivanov
Directed flow in heavy-ion collisions at high baryon densities

Marina Kozhevnikova
Light nuclei and hypernuclei production based on THESEUS event generator

Nikita Tsegelnik
Strange particle production and polarization in HICs at NICA energies

Jayanta Dey
Transport properties of rotating quark matter

Elena Kokoulina
Active role of gluons in multiparticle production

Oleg Teryaev
Classical and quantum shear

Eduard Dlin
Vorticity in Heavy-Ion Collisions

EOS+ PHASE TRANSITIONS

George Prokhorov

Possible phase transition in accelerated system

Garima Punetha (zoom)

Dual QCD Quark hadron phase transition in presence of magnetic field

Alexander Povolotsky,

Percolation, polymers and square ice: exact formulas and finite size scaling

Georgii Kalagov

Fluctuation-induced first-order superfluid transition in unitary Fermi gases

Nikita Lebedev

Spectral functions of the $O(n)$ model from the functional renormalization group approach

Vladimir Kondratyev

van der Waals droplets balancing between liquid and vapor

COLD ATOMS

Andrei Turlapov

Experimental approaches to create fermionic systems with p -wave pairing

QCD and EFFECTIVE THEORIES

Konstantin Pak

Structure of QCD string near Casimir Surface

Roman Zhokhov

Applications of dual symmetries of QCD

Alexandra Friesen

Pion transition form-factor in the frameworks of the PNJL model and the quark model with separable interaction

Valentin Zakharov

Physics of accelerated frames (selected issues)

NEUTRON STAR

Alexander Potekhin

Implications of dense matter properties on neutron-star thermal evolution on various time scales

Dmitri Ofengeim (zoom)

Universalities in neutron star equations of state

Andrei Chugunov

Recent advances in the physics of the inner crust

Petr Shternin

Matrix kinetic equation approach to calculation of neutrino emission accompanying formation of Cooper pairs in superfluid neutron star matter.

Waala Seif

Constraints on the nuclear equation of state: From terrestrial experiments to neutron star observations

Kirill Kraav

Instability windows of relativistic r -modes in hyperonic stars

Hovik Grigorian

Reconstruction of neutron stars mass distribution from cooling evolution

Alan Dzhioev

Thermal enhancement of nuclear (anti)neutrino emission during pre-supernova stage

Chitta Ranjan Das

Signature of strange star in SGR 0501+4516

LATTICE

Victor Braguta

Study of the properties of rotating quark-gluon matter by means of lattice QCD simulations

Artem Roenko

Chiral and deconfinement thermal transitions at finite quark spin density in lattice QCD

Daniil Stepanov

Weakening of the deconfinement phase transition in an external gravitational field