

Baikal Summer School
on Physics of Elementary
Particles and Astrophysics

Lecturers

ORGANIZERS



Joint Institute
for Nuclear
Research



IRKUTSK
STATE
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SPONSOR



Junhui Fan

Guangzhou University

Ph.D., Professor and Head of the Center
for Astrophysics at Guangzhou University.

Winner of the Outstanding Reviewer
Award for RAA in 2020, The China TOP
Cited Author Award in 2019, The Third
Science and Technology Award
of Guangzhou City in 2017.

SCIENTIFIC INTERESTS:

observational properties of blazars
(an extreme subclass of active galactic
nuclei-AGNs), including variability,
polarization, superluminal motions,
the estimations of boosting factors
and the central black hole masses,
the calculation of the spectral energy
distribution and the corresponding
classification of Fermi detected blazars,
the TeV blazar candidates and the
neutrino blazar candidates, and the
unification of blazars and radio galaxies.



Emil T. Akhmedov

MIPT, ITEP

Doctor of Sciences (Physics
and Mathematics), Head
of the Landau Department
of Theoretical Physics
at the Moscow Institute
of Physics and Technology.

SCIENTIFIC INTERESTS:

quantum field theory
in the early universe,
at the background
of microscopic black holes
and in the strong external
fields.





Lili Yang
SYSU

Ph.D., Associate Professor in the School of Physics and Astronomy at the Sun Yat-sen University.

SCIENTIFIC INTERESTS:

multi-messenger astronomy with analyzing and modeling of cosmic ray, gamma ray and neutrino data to study astrophysical sources such as supernova remnants and blazars.



Alexander Selyunin
JINR

Researcher at the Dzhelepov Laboratory of Nuclear Problems of the Joint Institute for Nuclear Research.

SCIENTIFIC INTERESTS:

photodetectors and their applications in scientific, medical, and industrial fields.



Evgeny Derishev
IAP RAS

Candidate of Sciences (Physics and Mathematics), Senior Researcher in the Astrophysics and Space Plasma Physics Department at the Institute of Applied Physics of the Russian Academy of Sciences.

SCIENTIFIC INTERESTS:

physics of shock waves, processes of particle acceleration in space plasma and processes of non-thermal radiation, accretion physics.



Liangjian Wen
IHEP

Ph.D., Professor at the Institute of High Energy Physics of the Chinese Academy of Sciences, Director of the Experimental Physics Division of IHEP.

Winner of the IUPAP Young Scientist Prize by IUPAP-C11 in 2016, the Young Scientist Prize by the Chinese Academy of Sciences in 2019, the XPLOER Prize by the New Cornerstone Science Foundation in 2021.

SCIENTIFIC INTERESTS:

particle physics, neutrino physics and astrophysics, detector technology.



Vladimir Aynutdinov
INR RAS

Doctor of Sciences (Physics and Mathematics), Leading Researcher at the Institute for Nuclear Research of the Russian Academy of Sciences.

SCIENTIFIC INTERESTS:

neutrino astrophysics, neutrino telescopes, radiation detection techniques.



Jianglai Liu
TDLI

Hongwen Distinguished Professor at the Tsung-Dao Lee Institute (TDLI) and the School of Physics and Astronomy of Shanghai Jiao Tong University, TDLI Deputy Director.

Winner of the Wang Ganchang Prize (Chinese Physics Society) and the Xplorer Prize (Tencent Foundation) in 2019.

SCIENTIFIC INTERESTS:

nuclear physics, particle physics and astrophysics with a current focus on dark matter and neutrinos.



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Elena Nokhrina
LPI RAS

Doctor of Sciences (Physics and Mathematics), Senior Researcher, Head of the Laboratory of Relativistic Astrophysics at the Lebedev Physical Institute of the Russian Academy of Sciences.

Individual Member of the International Astronomical Union.

SCIENTIFIC INTERESTS:
active galactic nuclei, relativistic jets, blazars, synchrotron emission, supermassive black holes.



Tao Lin
IHEP

Ph.D., Associate Researcher at the Institute of High Energy Physics of the Chinese Academy of Sciences.

Winner of the JUNO Young Researcher Award in 2019.

SCIENTIFIC INTERESTS:
data processing software development and detector simulation in HEP.



Ruizhi Yang
USTC

Ph.D., Professor in the Department of Astronomy at the University of Science and Technology of China.

SCIENTIFIC INTERESTS:
gamma-ray astronomy, cosmic ray science.



Weidong Li
IHEP

Ph.D., Researcher at the Institute of High Energy Physics of the Chinese Academy of Sciences and Professor at the University of the Chinese Academy of Sciences (UCAS).

Winner of the Second Prize of the National Natural Science Award in 2024.

SCIENTIFIC INTERESTS:
software development, computing, artificial intelligence, and quantum computing applied to high-energy physics experiments.



Oleg Samoylov
JINR

Candidate of Sciences (Physics and Mathematics), Head of the Sector of Accelerator Neutrinos in the Department of Particle Physics at DLNP JINR.

Winner of the Bruno Pontecorvo Scholarship in 2015, the Presidential Grant for Young Ph.D. Candidates in 2013, the Prize of the Moscow Region for Innovative Research in 2005.

SCIENTIFIC INTERESTS:
particle physics, neutrino physics, nuclear structure, astrophysics and cosmic ray physics, atmospheric muons and neutrinos, dark matter and physics beyond the Standard Model.



Yufeng Li
IHEP

Ph.D., Full Professor at the Institute of High-Energy Physics of the Chinese Academy of Sciences.

SCIENTIFIC INTERESTS:
neutrino physics and neutrino astrophysics.