

XXXII International (ONLINE) Workshop

on High Energy Physics

HOT PROBLEMS OF STRONG INTERACTIONS

<https://indico.ihep.su/event/hepftXXXII>

Topics:

QCD under extreme conditions, Phases of Quark/Baryon Matter

Strong-interacting matter at finite temperature
QCD phase structure at non-zero baryon density
Approaches to sign problem at non-zero baryon density
QCD phase diagram under strong external magnetic field
Phase diagram in the context of heavy-ion collisions
QCD phase diagram in astrophysics
Theoretical ideas and experimental searches of the critical point
Non-zero isospin density and meson condensation
QCD phase structure with chiral imbalance
Effects of rotation in QCD phase diagram
Anomalous transport phenomena and related issues: CME, CSC CVE, ...
Inhomogeneous phases in strongly interacting matter
Experimental results and future facilities

Physics of heavy quarks

New findings in heavy-quark spectroscopy
Heavy quarkonia
Doubly heavy baryons
Tetraquarks, pentaquarks
Heavy-quark production
Heavy flavours in QGP

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