

Session Program

14-17 Jul 2026



The 22nd International Conference on QCD in Extreme Conditions

Contributed Talks

Pukyong National University, Pukyong Convention Hall
Pukyong National University, 45 Yongso-ro, Nam-gu, Busan, 48513, South Korea

Tuesday 14 July

11:10

Contributed Talks: Session A

Session |

Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48513, South Korea |

11:10–11:30

Bubble Nucleation and Hadronic Phase Conversion in an Expanding Quark-Gluon Plasma

Speaker

Noriyuki Sogabe

11:30–11:50

Deconfinement-Higgs continuity in SU(2) adjoint Higgs model at finite temperature

Speaker

Masashi Kawahira

11:50–12:10

Lee-Yang zeros and edge singularity in an effective model of QCD

Speaker

Masakiyo Kitazawa

12:10–12:30

Current Memory in the Dynamical Evolution of Critical Cumulants

Speaker

Navid Abbasi

12:30

14:00

Contributed Talks: Session B

Session |

Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48513, South Korea |

14:00–14:20

Thermodynamics and Polyakov-Loop Potential in Accelerated Pure Gluonic Matter

Speaker

Dr Yusuke Shimada

14:20–14:40

Hadron Thermodynamics in de Sitter Spacetime

Speaker

Sho Yoshida

14:40–15:00

Locating Roberge-Weiss Tricritical Point in Heavy-Quark QCD on the Lattice

Speaker

Tatsuya Wada

15:00–15:20

Extract the QCD speed of sound in the presence of quantum fluctuations**Speaker**

Yu-Shan Mu

15:20

15:40

Contributed Talks: Session C**Session** |**Location:** Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 45513, South Korea |

15:40–16:00

Equation of state of hot and dense QCD using the complex Langevin equation**Speaker**

Michael Mandl

16:00–16:20

Generative diffusion models for lattice field theory**Speaker**

Gert Aarts

16:20–16:40

Sampling Non-Abelian Lattice Gauge Theories with Diffusion Models**Speaker**

Thomas R. Ranner

16:40–17:00

Quantum simulation of SU(2) gauge theory with staggered fermion**Speaker**

Zhen-Xuan Yang

17:00–17:20

The electric conductivity coefficient of magnetized QCD from the lattice**Speaker**

Christian Andratschke

17:20

Wednesday 15 July

10:50

Contributed Talks: Session D

Session |

Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, South Korea |

10:50–11:10

Phase Transition to Hyperon Matter in Neutron Stars using an Effective Model with Chiral Invariant Masses

Speaker

Masayuki Kanazawa

11:10–11:30

Scaling Properties and the Equation of State of Dense Matter in Neutron Stars

Speaker

Bao-Jun Cai

11:30–11:50

Chiral symmetry restoration and hyperon suppression in neutron stars

Speaker

Bikai Gao

11:50–12:10

Direct Urca and Synchrotron Neutrinos from Magnetized Quark Matter

Speaker

Igor Shovkovy

12:10–12:30

Interacting mesons as degrees of freedom in a chiral model

Speaker

Veronica Dexheimer

12:30

Thursday 16 July

10:50

Contributed Talks: Session F

Session |

Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48513, South Korea |

10:50–11:10

Color Randomization of $\bar{c}c$ System by Strong Color Fields in Relativistic Heavy-Ion Collision

Speaker

Hidefumi Matsuda

11:10–11:30

Nonperturbative particle production and evolution in the dynamic Glasma

Speaker

Nicholas J Benoit

11:30–11:50

Chapman-Enskog calculation of the shear viscosity of quark-gluon plasma at finite temperature

Speaker

Zi-Wei Lin

11:50–12:10

Recent PHENIX Highlights from RHIC

Speaker

maya shimomura

12:10

13:30

Contributed Talks: Session G

Session |

Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48513, South Korea |

13:30–13:50

Color electric field correlators and quarkonia decay in QGP

Speaker

Saumen Datta

13:50–14:10

The influence of heavy quark potential on quarkonium formation in QGP

Speaker

Taesoo Song

14:10–14:30

Flow of the J/ψ and $\psi(2S)$ in heavy ion collisions

Speaker

Sungtae Cho

14:30–14:50

Heavy-flavor probes of isotropization in small systems**Speaker**

Daria Prokhorova

14:50–15:10

Non-equilibrium approach to heavy-quark transport**Speaker**

Juhee Hong

15:10

15:30

Contributed Talks: Session H**Session** |

Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan 45113, South Korea |

15:30–15:50

The polarization of thermal dileptons at the next-to-leading order QCD**Speaker**

Han Gao

15:50–16:10

Probing Strong Magnetic Fields with Photons and Dileptons**Speaker**

Prof. xinyang wang

16:10–16:30

Fate of chiral and axial $U(1)$ symmetries in hot QCD matter under background magnetic fields**Speaker**

Dan Zhang

16:30–16:50

Recent developments in spin hydrodynamics**Speaker**

Zbigniew Drogosz

16:50–17:10

Local spin polarization by color-field correlators and momentum anisotropy**Speaker**

Haesom Sung

17:30

Friday 17 July

10:50

Contributed Talks: Session I

Session |
Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48512, South Korea |
Co-Chair: J. S. Kim

10:50–11:10 The axion-photon coupling from lattice Quantum Chromodynamics

Speaker
Dr José Javier Hernández Hernández

11:10–11:30 Nuclear liquid-gas transition in strong coupling QCD

Speaker
Jangho Kim

11:30–11:50 The fate of the U(1)-axial symmetry and the static quark potential at high temperature

Speaker
Jon-Ivar Skullerud

11:50–12:10 Hadron spectroscopy of QC2D at finite density

Speaker
Etsuko Itou

12:10–12:30 Centre vortices in thermal QCD: evidence of an intermediate “phase”

Speaker
Chris Allton

12:30

14:00

Contributed Talks: Session J

Session |
Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48512, South Korea |
Co-Chair: J. S. Kim

14:00–14:20 Chiral Symmetry Breaking in Accelerating and Rotating Frames

Speaker
zhibin zhu

14:20–14:40 Vorticity-induced effects from Wess-Zumino-Witten terms

Speaker
Geraint Evans

14:40–15:00 Spatial confinement/deconfinement transition in rotating and accelerating QGP

Speaker
Victor Braguta

15:00–15:20

Capturing the Schwinger Effect at One Loop: A Resummed In-In Formalism in a Constant Electric Field

Speaker
Shuhe Minato

15:20–15:40

Effective-model analysis of topological susceptibility and meson susceptibilities in hot and dense matter

Speaker
Mamiya Kawaguchi

Contributed Talks: Session K

Session |
Location: Pukyong National University, Pukyong Convention Hall, Pukyong National University, 45 Yongso-ro, Nam-gu, Busan, 48513, South Korea |
Convenor: 48513, South Korea

16:00–16:20

Quantum-Metric Dominance in the Meissner Mass of Magnetized Color Superconductors

Speaker
Kazuya Mameda

16:20–16:40

Baryonic Vortex and Topological Phases in Dense QCD

Speaker
Zebin Qiu

16:40–17:00

Baryon interactions in a pion superfluid at finite isospin chemical potential

Speaker
Dr Asanosuke Jinno

17:00–17:20

Meson Spectra in a Three-Flavor Quark-Meson Model at Finite Temperature and Isospin Density

Speaker
Yuhan Gao