

PhD School on QCD in Extreme Conditions 2026

Sunday, 12 July 2026 - Monday, 13 July 2026

Pukyong National University (PKNU)

Scientific Programme

The school will feature four block lectures 2 x 90 min, given by internationally recognized theoretical physicists, covering cutting-edge research topics centred on recent advances in the theory and phenomenology of QCD under extreme conditions, providing an in-depth review of these fields for PhD students before the XQCD conference.

Machine Learning, Langevin Dynamics, and Stochastic Quantization

Lecturer: Prof. Gert Aarts (Swansea University)

t.b.a.

Neutron Stars and Gravitational Waves

Lecturer: Prof. Kenji Fukushima (University of Tokyo)

t.b.a.

Non-equilibrium and Open Quantum Systems

Lecturer: Prof. Alexander Rothkopf (Korea University)

t.b.a.

Fundamentals of Lattice QCD Simulations and Nucleon Structure

Lecturer: Prof. Sungwoo Park (Sejong University)

t.b.a.