Summer school on QCD in Finland



Summer school on QCD in Finland

- QCD summer school on theory, phenomenology and experiments organized by Henning Kirschenmann, Kati Lassila-Perini, Kenneth Osterberg, Mikko Voutilainen, Tuomas Lappi and Christophe Royon
- When? during the bright Nordic summer nights, June 24 to July 6
- Where? Ivalo, beyond polar circle in Lapland
- First week focusing on theory, the second on phenomenology and experiments
- Proposed topics
 - Perturbative QCD: hard and high energy processes
 - Small x physics and saturation
 - Algorithms: jets, particle flow, machine learning
 - Event generators
 - Experiments and detectors: LHC, EIC and cosmic rays
- Web page: https://indico.cern.ch/event/1134577/

Summer school on QCD in Finland: Main Lectures

- Machine learning Thea Aarrestad
- High energy resummation and diffraction Francesco Celiberto
- BFKL and low x physics Grigorios Chachamis
- QCD and PDFs Vadim Guzey
- Pythia and hands-on Ikka Helenius
- Sherpa and hands on Stefan Hoeche
- Introduction to QCD Paul Hoyer
- High energy soft QCD and diffraction Valery Khoze
- Saturation Tuomas Lappi
- Hands on Kati Lassila-Perini
- Herwig and hands on Aidin Masouminia
- Small x and saturation AI Mueller
- Forward physics Paul Newman
- Forward detectors Ken Osterberg

- CGC: vector mesons and diffraction Jani Penttala
- Cosmic rays Tanguy Pierog
- PPS and TOTEM results and prospects Christophe Royon
- Physics at the EIC Thomas Ullrich
- Jet energy scale Mikko Voutilainen
- Hadronic physics and jets Gregory Soyez
- Saturation Raju Venugopalan