

alpha_S(2024): Workshop on precision measurements of the strong coupling constant

The workshop aims at exploring in depth the current status and upcoming prospects in the determination of the QCD coupling constant $\alpha_S(m_Z)$ from the key observables where high precision measurements and theoretical calculations are (or will be) available: lattice QCD, hadronic decays of tau leptons, deep-inelastic electron-proton scattering and global parton density analyses, QCD corrections to electroweak precision observables, and analysis of hadronic final states in high energy particle collisions (e^+e^- , ep , and pp).

Organizers

David d'Enterria (CERN)

Stefan Kluth (MPP)

Giulia Zanderighi (Max-Planck-Institute for Physics)

Key-note speakers

Mohd Siddique Akbar Alam Khan (IIT Gandhinagar), Cesar Ayala (Universidad de Tarapaca), Andrea Barontini (Università degli studi di Milano), Cristian Baldenegro Barrera (Sapienza Università di Roma), Fernando Barreiro (Universidad Autónoma de Madrid), Miguel Benitez-Rathgeb (Universidad de Salamanca), Johannes Bluemlein (DESY), Nora Brambilla (TUM), Stanley Brodsky (SLAC National Accelerator Laboratory and Stanford University), Patrick Connor (Universität Hamburg), Thomas Cridge (DESY), Gorazd Cvetic (Universidad Tecnica Federico Santa Maria), Giancarlo Ferrera (University of Milan and INFN, Milan), Paris Giannelis (Université Libre de Bruxelles), Maarten Golterman (San Francisco State University), Francesco Giuli (CERN), Andre Hoang (University of Vienna), Joey Huston (Michigan State University), Andreas Kronfeld (Fermilab), Christopher Lee (LANL), Viljami Leino (Helmholtz institute Mainz) Florian Lorkowski (University of Zürich), Vicent Mateu (University of Salamanca), Julian Mayer-Stuedte (Technical University of Munich), Shubham Mishra (IIT Hyderabad), Stephan Narison (LUPM (CNRS/IN2P3 and Univ. Montpellier), Paolo Nason (INFN Milano Bicocca), Santi Peris (U.A. Barcelona), Redamy Perez-Ramos (DRII-IPSA, LPTHE), Peter Petreczky (BNL), Antonio Pich (IFIC, Univ. Valencia – CSIC), Alberto Ramos Martinez (Univ. of Valencia and CSIC), Antonio Rodríguez Sánchez (SISSA/INFN), Matthias Schott (University of Mainz / University of Bonn), Jian-Ming Shen (Hunan University), Hai-Tao Shi (Beijing Normal University), Stefano Sphar (Trinity College Dublin), Rainer Sommer (DESY), Gherardo Vita (University of Padua), Jian-Ping Xiao (ZJU - Zhejiang University)

Director of ECT*: Professor Gert Aarts

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