

Joint 20th International Workshop on Hadron Structure and Spectroscopy and 5th workshop on Correlations in Partonic and Hadronic Interactions



Contribution ID: 18

Type: **not specified**

Hadronization in e^+e^- annihilation

Monday 30 September 2024 10:30 (30 minutes)

Hadronization, the inevitable formation of colourless hadrons from coloured partons (quarks and gluons), is one of the fascinating aspects of nature and one that escapes first-principle calculations based on quantum chromodynamics. As such, experimental data are required to constrain fragmentation functions, the non-perturbative objects arising from applying factorisation theorems to various high-energy processes involving hadrons in the final state. An especially well-suited process to study hadronization is e^+e^- annihilation into hadrons as these hadrons are produced from the partons produced in the collision and cannot emerge from the remnants of the initial state like, e.g., in hadronic collision or lepton-nucleon scattering. In this contribution, I will review more recent results obtained on hadron production in e^+e^- annihilation.

Primary author: SCHNELL, Gunar

Presenter: SCHNELL, Gunar

Session Classification: Morning plenary