

COMPASS: Meson Spectroscopy and Low-Energy Meson Dynamics

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Collaboration

COMPASS

Abstract content

Within the broad physics programme of the COMPASS collaboration at CERN SPS, soft reactions of high-energy hadron beams on different nuclear targets are investigated. Aiming at a better understanding of the strong interaction, novel results range from tests of chiral symmetry breaking to properties of diffractively produced meson resonances studied in their multi-particle decays, such as the $a_1(1420)$ with unusual properties. The talk will highlight the challenges of the employed experimental techniques, and as well of the analysis methods that have to be developed to a large extent along with the analysis of the world's largest data sets in the field.

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