# Results and prospects for low-energy QCD processes from COMPASS 

Wednesday, 13 September 2017 11:30 (30 minutes)


#### Abstract

The COMPASS collaboration investigates since more than 15 years a large variety of high-energy QCD processes at the CERN Super Proton Synchrotron. While the intense 160 GeV muon beam is used for deepinelastic scattering and the study of nucleon structure functions, a second important part of the program is dedicated to the scattering of 190 GeV pions on a liquid hydrogen and nuclear targets. The latter includes the study of diffractive reactions, used for light-meson spectroscopy, and pion-photon induced reactions, which give access to several quantities of interest for low-energy QCD. The respective results on the pion polarisability, as well as the status for a high-precision determination of the chiral anomaly and reactions involving the pion scattering lengths are discussed.


Primary author: Dr FRIEDRICH, Jan (TU München)
Presenter: Dr FRIEDRICH, Jan (TU München)

Track Classification: Low-energy QCD

