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GPD Measurements at COMPASS

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Encapsulating the transverse position of partons as functions of their longitudinal momentum, Generalized Parton Distributions (GPDs) go beyond the 1-dimensional description of the partonic structure of the nucleon and provides a 3-dimensional picture of the nucleon. GPDs have drawn considerable theoretical interest and been studied by experimental efforts through processes such as Deeply Virtual Compton Scattering (DVCS) or Hard Exclusive Meson Production (HEMP). At COMPASS, the 160 GeV polarized muon beams were employed for the GPD study in the kinematic domain where sea quarks are expected to contribute significantly. After a successful pilot run during 2012, COMPASS proceeded to have dedicated runs in 2016-17 and had about 10 times more data accumulated. In this presentation, some of the recent results on GPD measurements at COMPASS will be given.

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