

## The COMPASS-II program

The COMPASS experiment at CERN uses either muon or hadron beams with a longitudinally or transversely polarized solid target, liquid hydrogen or heavy nuclear targets. The COMPASS Collaboration has recently submitted a proposal for additional measurements in the next years. The proposal (COMPASS-II) was approved by the CERN Research Board in December 2010. It includes studies of: 1) Drell-Yan process using a negative pion beam and a transversely polarized proton target. The resulting measurements give access to the transverse momentum dependent parton distributions. 2) Deeply virtual Compton scattering using positive and negative muon beams with opposite polarization together with an unpolarized proton target. At a later stage a transversely polarized proton target is envisaged. The data will allow a measurement of the generalized parton distributions in the nucleon. 3) Primakoff reactions as a tool for measuring pion and kaon polarizabilities, taking advantage of both pion and kaon in the CERN hadron beam. In this presentation the main motivations for the COMPASS-II proposal will be reviewed and the most important modifications of the experimental set-up, which is necessary for these new programs, will be presented.

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