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Future GPD measurements using COMPASS at CERN

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A major part of the future COMPASS program will be dedicated to the investigation of the nucleon structure through Deeply Virtual Compton Scattering (DVCS) and Deeply Virtual Meson Production (DVMP).

COMPASS will measure DVCS and DVMP reactions with a high intensity muon beam of 160 GeV of opposite charge and polarization which will allow to access the Compton form factor related to the dominant GPD H and to study the x_B -dependence of the t -slope of the pure DVCS cross section.

For this program, the Compass spectrometer is upgraded with a 4 m-long recoil proton detector, a 2.5 m-long liquid hydrogen and a large angle calorimeter. Projections on the achievable accuracies and preliminary results of pilot measurements will be presented.

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