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Proton radius with COMPASS++/AMBER

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With many attempts to experimentally constrain the leading-order term describing the non-pointlike nature of the proton, i.e. its mean-square charge radius, the overall situation is still ambiguous and is a quest for new precision data.

COMPASS++/AMBER aims at contributing with a high-statistics measurement of high-energy muon-proton elastic scattering, complementing the respective campaign with low-energy muons at MUSE/PSI. Data taking is proposed from 2022 on.

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