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Combined Measurement of Inclusive ep Scattering Cross Sections at HERA

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A combination is presented of all inclusive deep inelastic cross sections measured by the H1 and ZEUS collaborations in neutral and charged current unpolarised ep scattering at HERA. The data correspond to a luminosity of about 1 fb^{-1} and span six orders of magnitude in negative four-momentum-transfer squared, Q^2 , and Bjorken x . They include data taken at proton beam energies of 920, 820, 575 and 460 GeV. The combination method took the correlations of the systematic uncertainties into account, resulting in improved accuracy.

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