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Combined measurement of the inclusive diffractive cross sections at HERA

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A combination is presented of the inclusive diffractive cross section measurements made by the H1 and ZEUS collaborations at HERA. The analysis uses all available diffractive deep inelastic scattering data, $ep \rightarrow eXp$, recorded between 1997 and 2007 and selected with the Large Rapidity Gap technique. Correlations of systematic uncertainties are taken into account by the combination method, resulting in an improved precision. Final cross sections can be used in a next-to-leading order QCD fit to extract a new set of diffractive parton distribution functions with small experimental uncertainties.

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