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Electromagnetic proton form factors for neutrino physics and atomic spectroscopy OLEKSANDR TOMALAK, KAUSHIK BORAH, University of Kentucky, RICHARD HILL, University of Kentucky and Fermilab, GABRIEL LEE, University of Korea and Cornell — We provide a parametric representation of nucleon form factors, uncertainties, and correlations at momentum transfers below a few GeV^2 $incorporating all our knowledge about electromagnetic nucleon structure from electron scattering data a$
$5 precise neutrino measurements and first measurements of the ground$ –
$state hyperfine splitting in muonic hydrogen call for further experimental investigations of the proton magne$
$3 GeV^2$

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