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## Limits on the effective quark radius from inclusive ep scattering at HERA

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The high precision HERA combined measurement of inclusive deep inelastic cross sections in neutral and charged current  $ep$  scattering, corresponding to a luminosity of about  $1 \text{ fb}^{-1}$ , permits searches for new contributions to electron-quark scattering beyond the Standard Model up to TeV scales. A new approach to beyond the Standard Model analysis of the inclusive  $ep$  data is presented; simultaneous fits of parton distribution functions and contributions of “new physics” processes were performed. Results are presented considering a finite radius of quarks within the quark form-factor model. The resulting 95% C.L. upper limit on the effective quark radius is  $0.43 \times 10^{-16} \text{ cm}$ .

### Experimental Collaboration

ZEUS

**Presenters:** TURKOT, Oleksii (DESY); TURKOT, Oleksii (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Higgs and new physics

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