

QED PDFs in HERAFitter

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29.01.2014, HERAFitter User's Meeting

Status and plans

- I've checked the implementation of QED-modified evolution with new beta version of QCDNUM (17-01-0c). It works
- Now I'm working on HERAFitter interface to QCDNUM+QED

Plans for this and next week:

- To implement a parametrization for photon PDF $\gamma(x, Q^2)$. Need to add extra minuit parameters and modify `pdf_param.f`
- To modify the implementation of momentum sum rule

$$\int_0^1 dx x [\gamma(x, Q^2) + g(x, Q^2) + \Sigma(x, Q^2)] = 1.$$

`sumrules.f` has to be modified

- To modify `evolution.f` for QED-evolution