



Contribution ID: 740

Type: **not specified**

Radiative corrections to low energy electron proton scattering

Monday 13 May 2024 14:45 (15 minutes)

We present a calculation of QED radiative corrections to low energy electron proton scattering at next-to-leading order. This work is based on that performed previously by Maximon and Tjon which relied on the soft photon approximation for the two-photon exchange diagram. The calculations are performed assuming the finite size of the proton through electromagnetic dipole form factors and relaxation of the approximation made in this earlier work. Comparisons are provided over the same kinematic ranges as those used in Maximon and Tjon. In addition we will discuss the impact of these corrections on several kinematic distributions.

Mini Symposia (Invited Talks Only)

Plenary (Invited talks only)

Author: CROWE, Daniel**Co-author:** Dr HASAN, Syed Mehedi (University of Regensburg)**Presenter:** CROWE, Daniel**Session Classification:** Instrumentation**Track Classification:** Instrumentation