epic-[AN/TN]-[TC/SC/AC]-[Year]-[#]
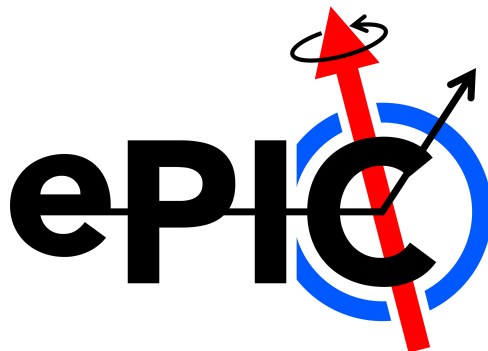
Title Goes Here

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(July 30, 2025)

Abstract

Abstract for analysis note goes here.

Contents

List of Figures

List of Tables

1 Introduction

Brief introduction to the physics motivation of the analysis presented here (1-2 pages). Here is an example plot shown in Figure 1. Here is an example for a reference [1].
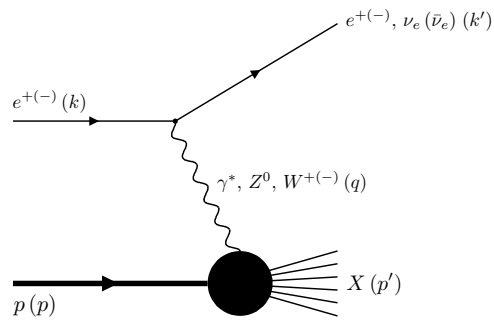

Figure 1: *Feynman graph for ep scattering.*

2 Analysis details

Sufficient information on the analysis should be provided such that other ePIC members, if desired, are able to reproduce the results by following this analysis note and utilizing associated analysis codes.

2.1 Data and Monte Carlo Samples

Description of the data and simulation samples used in this analysis. Please include sufficient details, such as software version used for data production or special calibration files, so readers can easily identify them.

2.2 Event, Particle and PID Selections

Description of how events (type, vertex, kinematics, etc) and particles (tracks, clusters, hits, etc) are selected. PID information, if used, should be elaborated as well.

2.3 Signal Extraction

Detailed description of how raw signals are reconstructed and extracted.

2.4 Corrections for Detector Effects

Detailed description of the correction scheme for detector acceptance, efficiency, resolution, etc.

2.5 Systematic Uncertainties

Detailed description of how systematic uncertainties are evaluated. Figures and/or tables are recommended to illustrate the magnitudes of different uncertainty sources and their evolution with measured observables. Correlations of uncertainties should also be discussed.

2.6   Results and Discussions

Presentation of all the results derived from this analysis, including figures, tables, confidence level, etc. Associated physics messages should be included as well.

Here is an example: Table 1.

x	Q^2 (GeV^2)	F_2	Stat. Error	Syst. Error
0.001	1.2	0.345	0.012	0.023
0.005	2.3	0.512	0.015	0.030
0.010	3.1	0.678	0.018	0.035
0.020	4.7	0.823	0.020	0.040
0.030	5.8	0.912	0.022	0.045
0.050	6.2	1.034	0.025	0.050
0.070	7.1	1.189	0.027	0.055
0.100	8.3	1.245	0.030	0.060
0.200	9.5	1.387	0.033	0.065
0.300	10.0	1.456	0.035	0.070

Table 1: *Example table of x, Q^2, F_2 values (Random values!) with statistical and systematic errors.*

3   Summary

Briefly summarize the main findings of the analysis.

References

[1] R. Abdul Khalek *et al.*, Nucl. Phys. A **1026**, 122447 (2022), 2103.05419.