

ePIC Exclusive, Diffractive and Tagging Analysis Note Template

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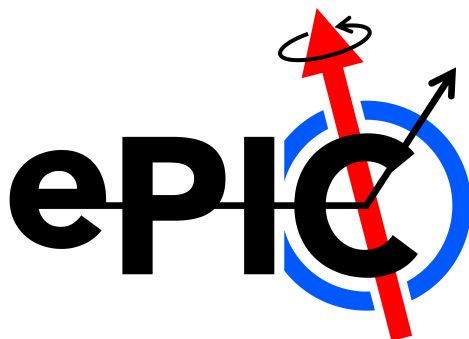
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MONTH YEAR

Abstract

Abstract goes here



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1 Introduction

Some background info to your channel. Brief overview of the physics interest in the channel.



Figure 1: A re-imagined ePIC logo incorporating York's most famous duck.

2 Simulation Overview

Details on the simulation, event generator used, detector geometry, beam conditions etc. Details on the relevant simulation campaign. Reference other sections via Sec. 1 and cite things via [1]. Reference figures as Fig. 1.

2.1 Event Generator Details

Information on event generator utilised. Specify version, link to instructions for running code (should be provided for Production WG). Break out other components into subsections if desired/needed (e.g. if simulation geometry is specific/unique).

3 Event Selection

Information on your event selection procedure/process. Highlight any specific subsystems used if relevant. Outline cuts used, ordering, rationale. If a cut is “unusual” or non-standard, make sure you discuss it. When showing kinematic variables, **clarify the reconstruction method**. If needed, include a description of the reconstruction method.

3.1 Analysis Code

Information on where to find your analysis code, how to run it. Consider adding additional details to the appendix (weird compilation quirks etc).

4 Results and Discussion

Your results with key performance plots etc. Consult checklist of key figures, see page three of this presentation as an example of plots to include.

A Appendix

Material you wish to include in an appendix.

References

- [1] R. Abdul Khalek, et al., Science requirements and detector concepts for the electron-ion collider: Eic yellow report, Nuclear Physics A 1026 (2022) 122447. doi:<https://doi.org/10.1016/j.nuclphysa.2022.122447>.
URL <https://www.sciencedirect.com/science/article/pii/S0375947422000677>