

Radiative Correction Framework

A Quick Start Guide

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0.1 Introduction

This document will walk you through how to use and modify the radiative correction framework starting from creating the particle guns till producing the efficiency ratios required for a fake data study.

The full code is accessible at:

https://github.com/f-shaker/radiative_correction

0.1.1 Framework Overview

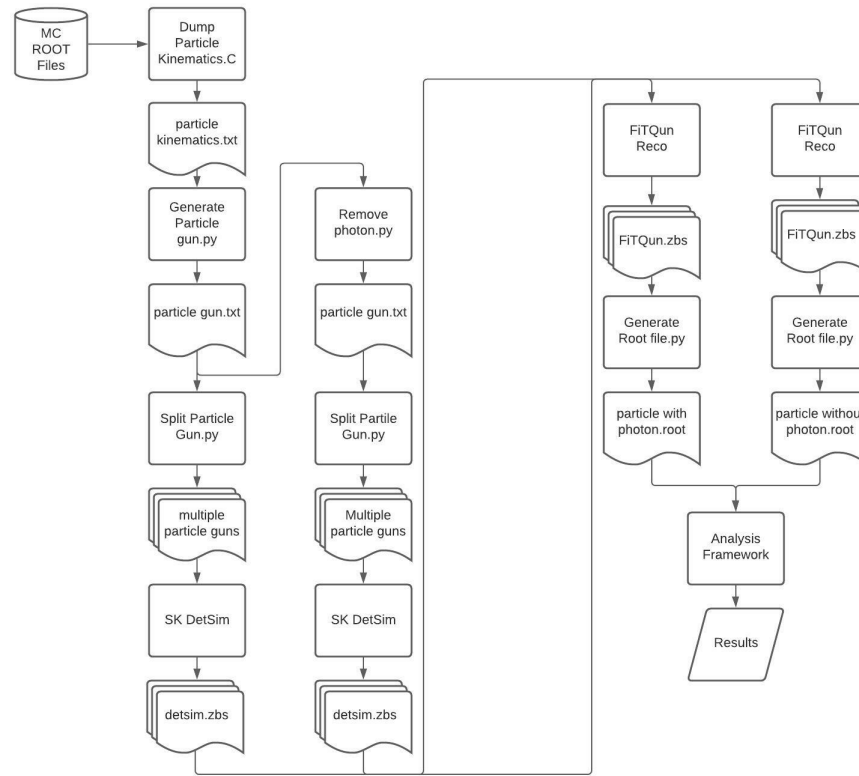


Figure 1: Radiative Correction Framework

Bibliography

- [1] Konosuke Iwamoto. *Neutrino Oscillation Measurements with An Expanded Electron Neutrino Appearance Sample in T2K, 2017.*
- [2] Kevin McFarland and Konosuke Iwamoto. *Radiative CCQE and T2k's Oscillation Analyses, 2018*
- [3] A. De Rujula, R. Petronzio and A. Savoy-Navarro *Radiative Corrections to High-Energy Neutrino Scattering. Nucl.Phys. B154 (1979) 394. CERN-TH-2593.*