

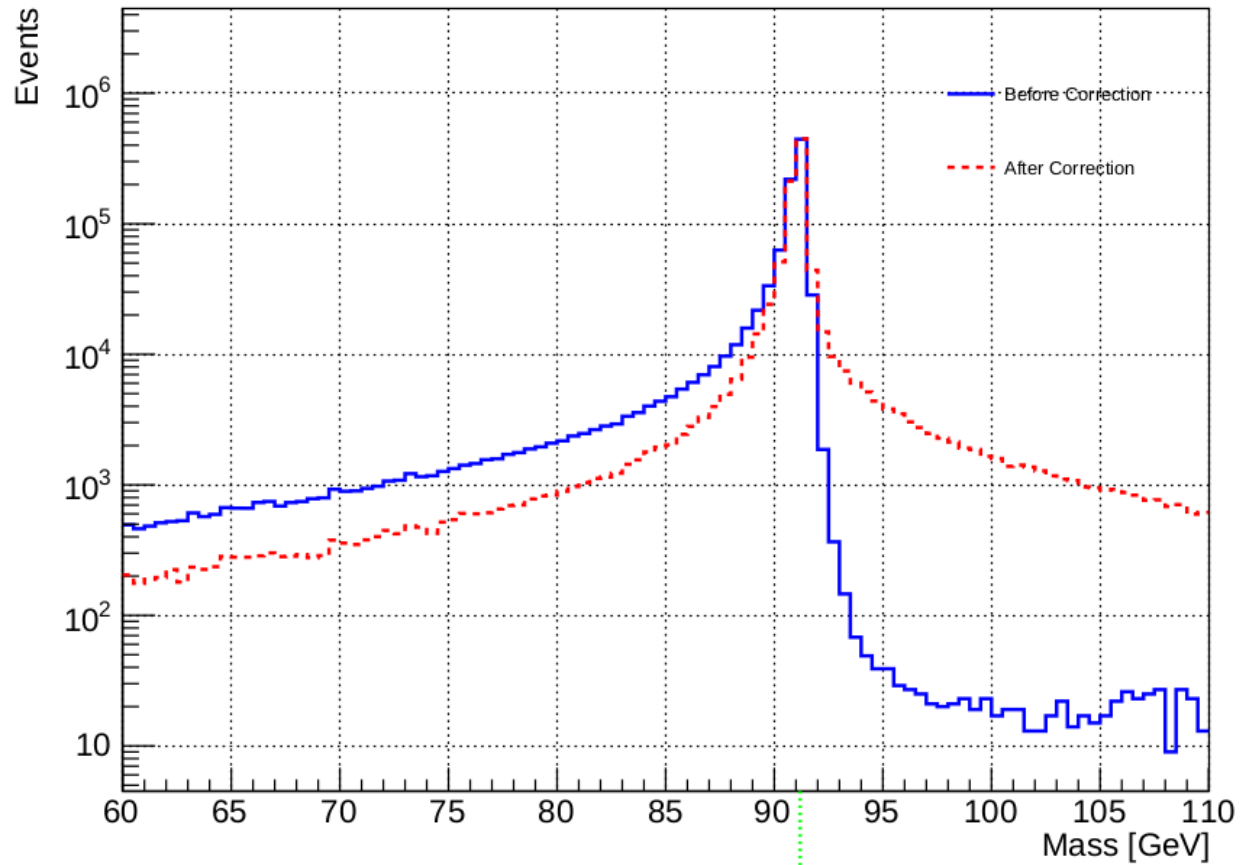
$ee \rightarrow \mu\mu$ forward-backward asymmetry at CEPC

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Introduction

- We have solved the problem of PFO being unable to store neutral particle information.
- The sample is a mixture of five sub-samples at different collision energies (91.0216 GeV, 91.1248 GeV, 91.1876 GeV, 91.2504 GeV, 91.3536 GeV), comprising a total of 1 million events.
- All neutral particles in the sample are photons.
- Perform cuts and calculate $\cos\theta$ using the corrected muon four-momentum.
- This is expected to increase the number of events passing the Z mass cut.

Corrected stdhep



Total : 1000000

Original Z mass cut : 905440

Corrected Z mass cut : 914455

Original AFB: 0.0183106

Corrected AFB: 0.0180111