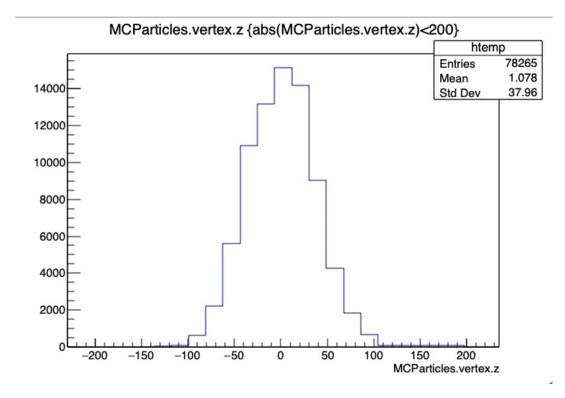
## Momentum resolution from simulations of pi+ in different vertex bin

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## Choice of vertex bins for this study



Typical sigma of the vertex distribution is 3 cm. So plotted for resolution for  $\pm 3\sigma$  values.

[-100, -50, -25, 0, 25, 50, 100]

Z vertex posiiton of DIS events in S3 folder with 10x100

## Global information regd this simualtion

Particle : single pi+ simulation

Momentum range: 0.3 to 10 GeV

Detector Configuration : Arches

Tools : simualtion with edm4hep and reconstruction using eicrecon

