

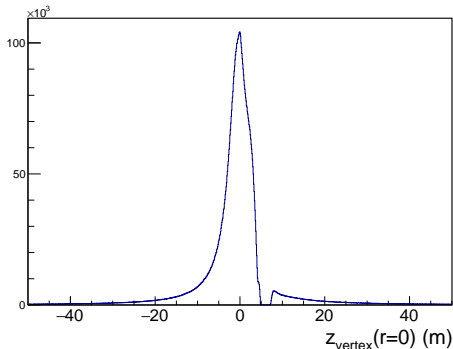
## *Z<sub>vertex</sub>* **Distributions**

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- ▶ Taken with  $5\sigma$  matching between GEM and HyCal:
  - ▶ 15 mm for crystal
  - ▶ 35 mm for transition region
  - ▶ 50 mm for leadglass



- ▶ No possible cut on  $z_{vertex}$  as long as  $z_{hycal}$  is not sure

# $Z_{vertex}$ Distribution for $x=0$ and $y=0$

