Tracking performance

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5/26/2017

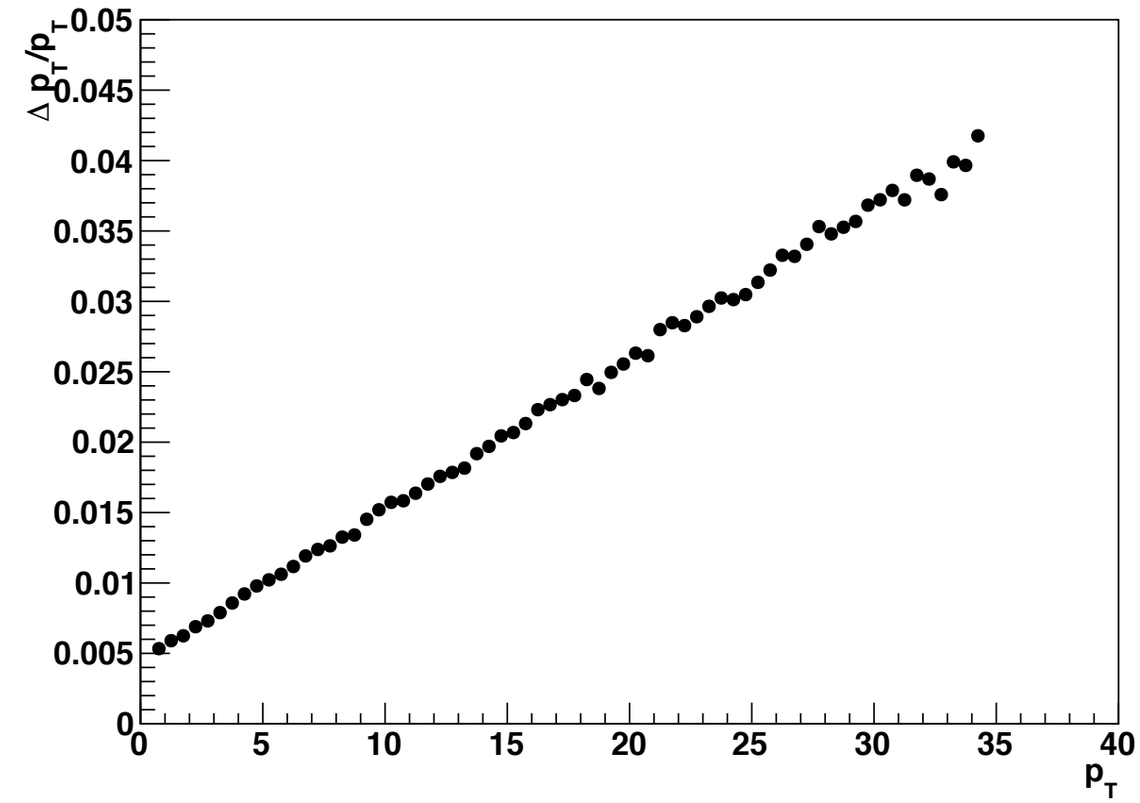
Introduction

Following Haiwang's bug fix of May 24 (pull request 303) I ran some performance tests with:

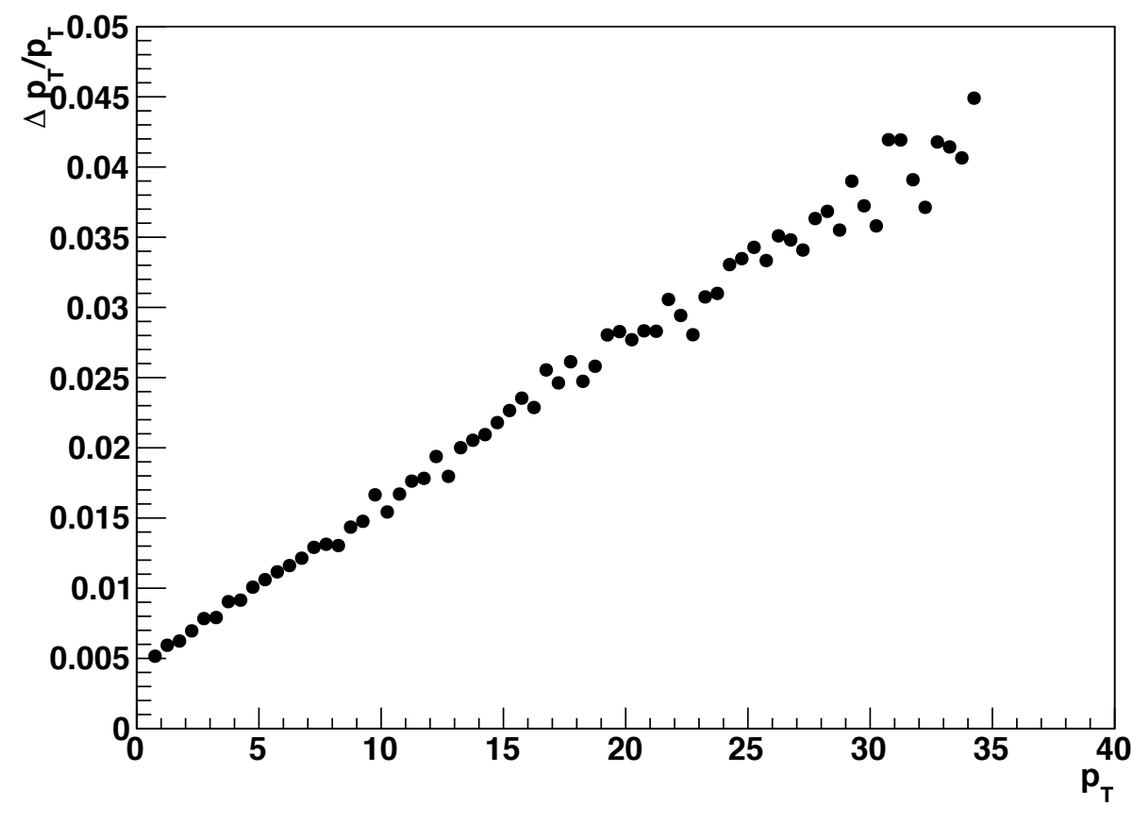
- 4K 100 pion events
- 1K (Central Hijing + 100 pion) events

p_T resolution

100 pions

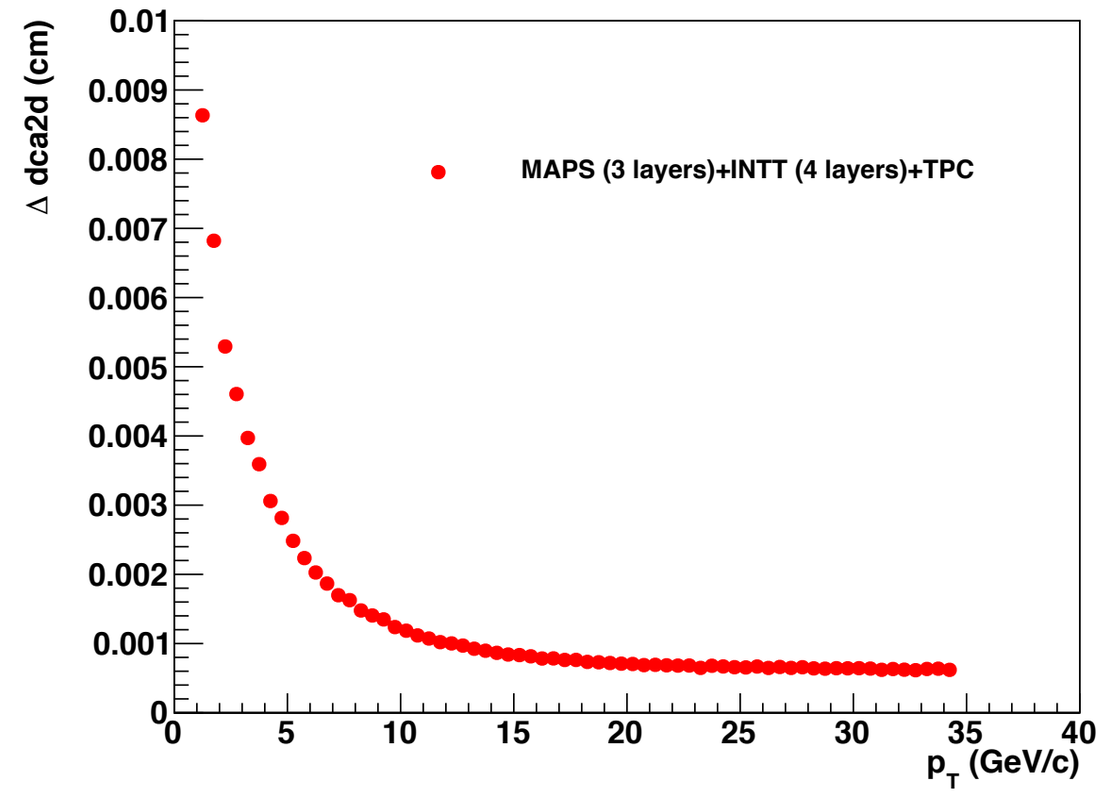


100 pions embedded
in central Hijing events

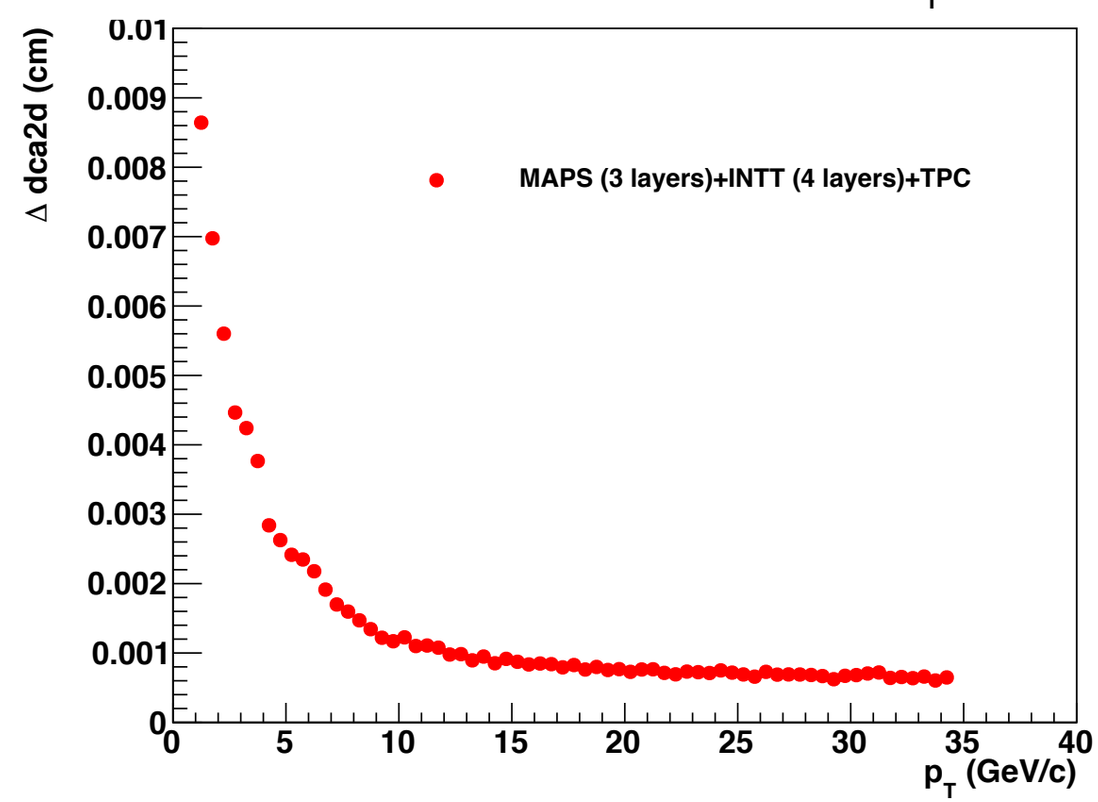


dca2d resolution

100 pions

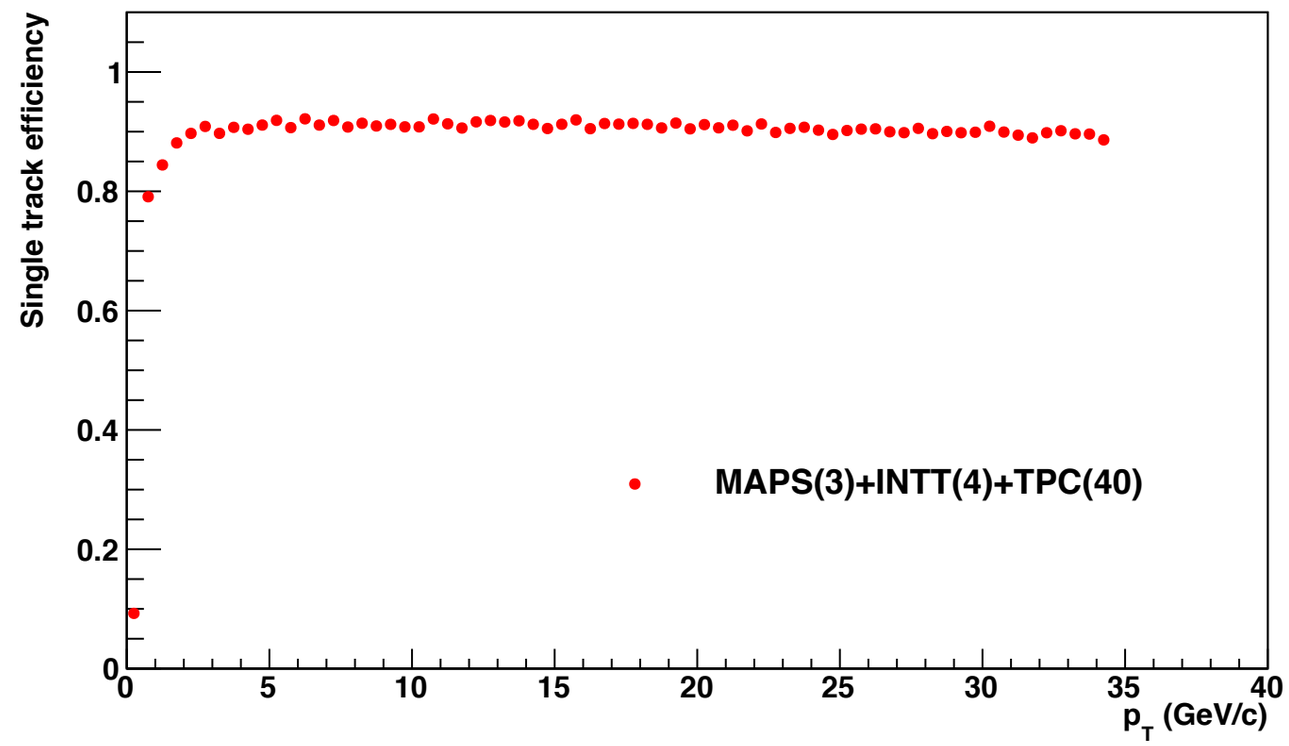


100 pions embedded
in central Hijing events

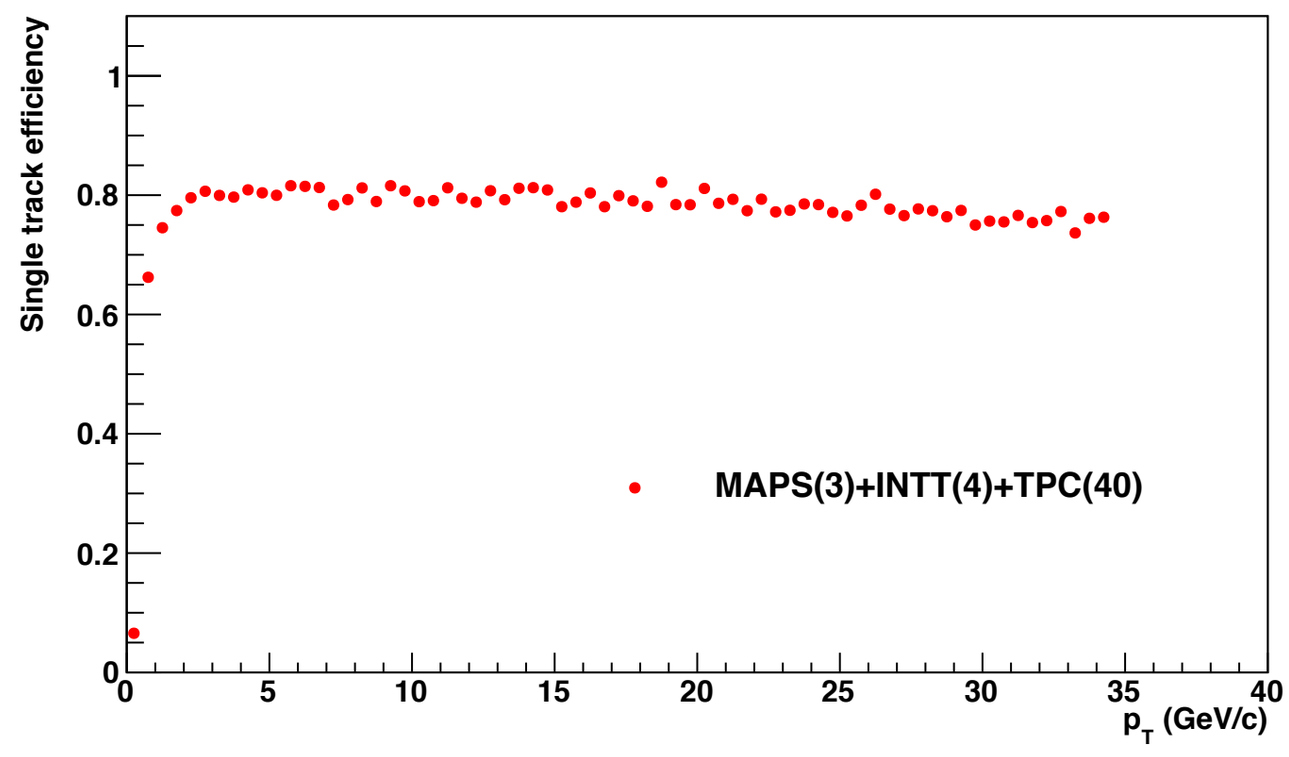


Track efficiency

100 pions

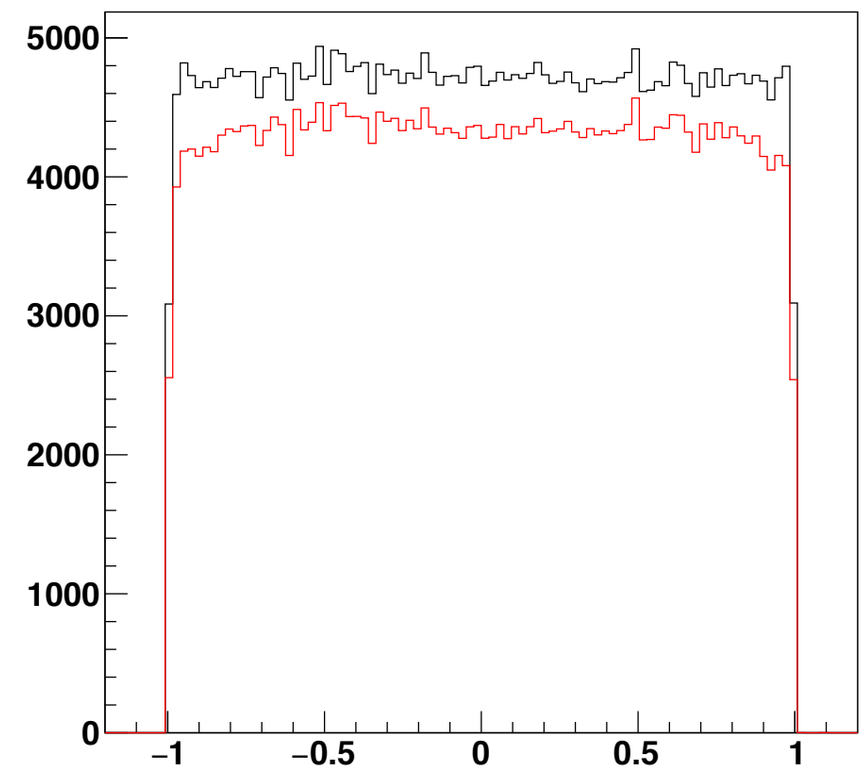


100 pions embedded
in central Hijing events

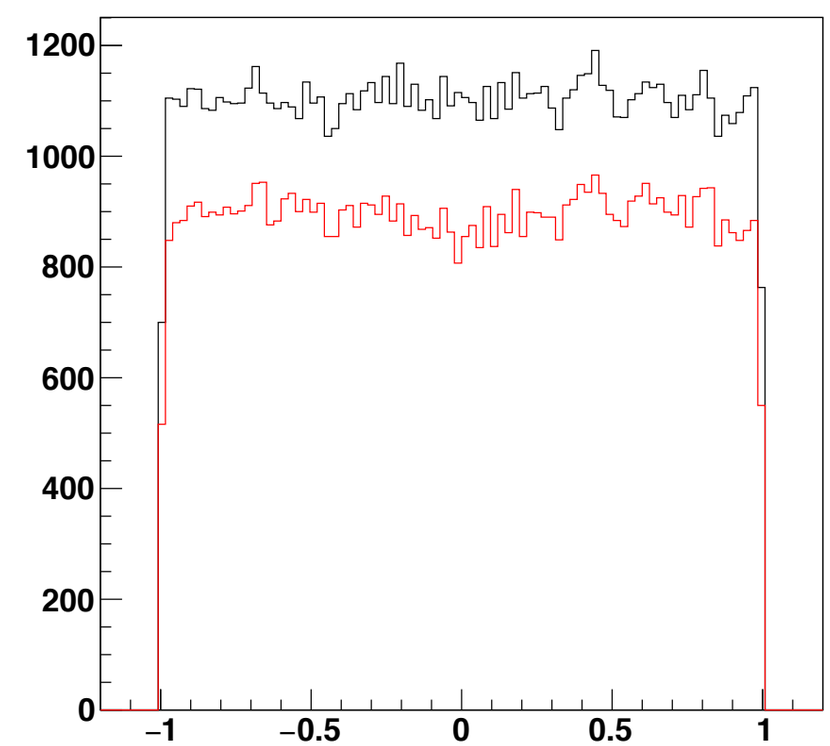


Efficiency vs η

100 pions

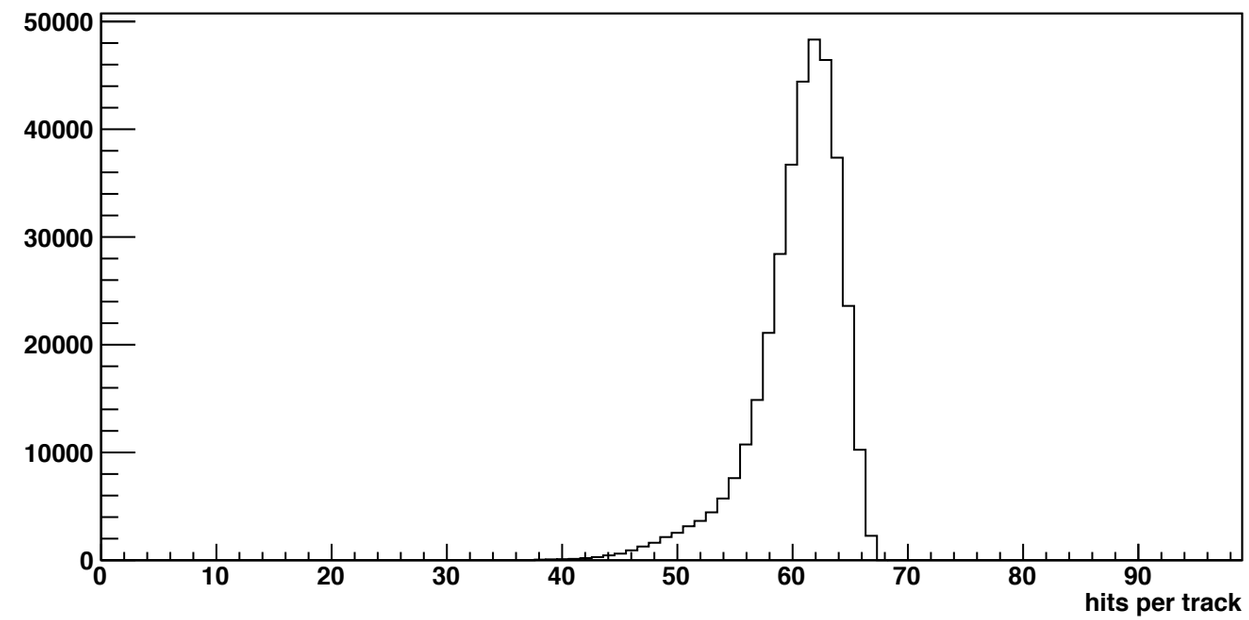


100 pions embedded
in central Hijing events

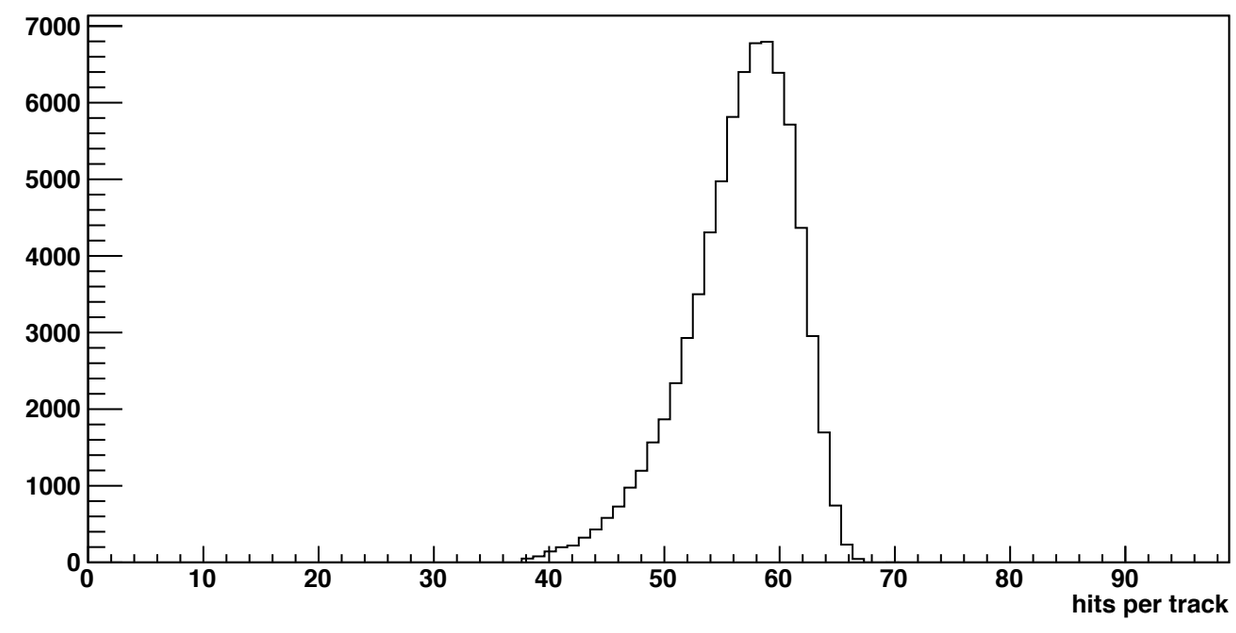


Hits per track

100 pions



100 pions embedded
in central Hijing events



Conclusions

Not so bad - congratulations!

Need some improvement in the single track efficiency, but momentum resolution and dca2d resolution for pions embedded in central Hijing events are degraded very little.