

Hough Tracking Study Progress

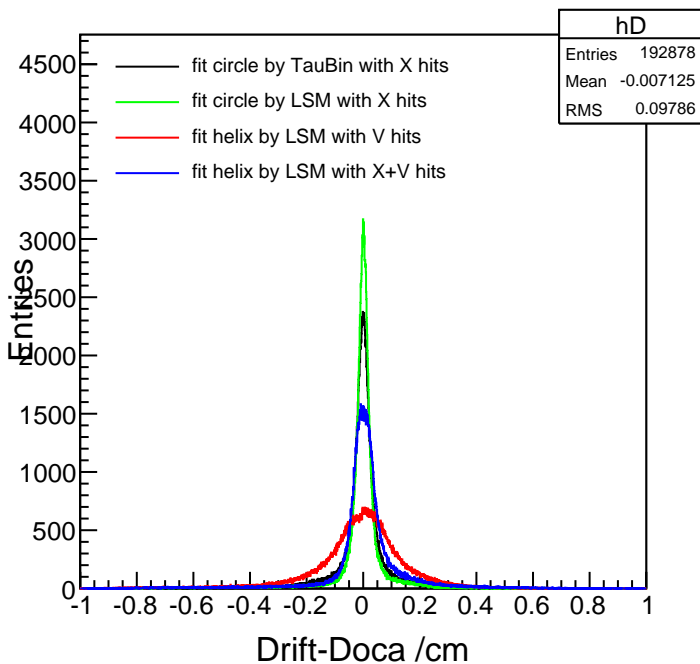
黄震

2019.04.18

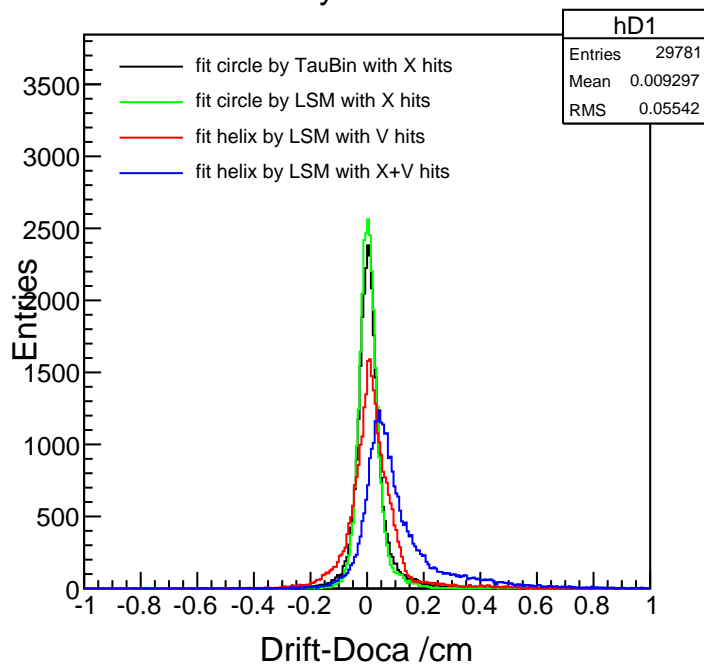
工作进展

- 最小二乘拟合对100MeV横动量的圆径迹拟合有大约20%的发散现象，目前正在查找原因，还没有实质性发现。
- 比较helix拟合前后残差分布：
 - ① 拟合后斜丝残差分布变窄
 - ② 拟合后直丝参数分布变宽

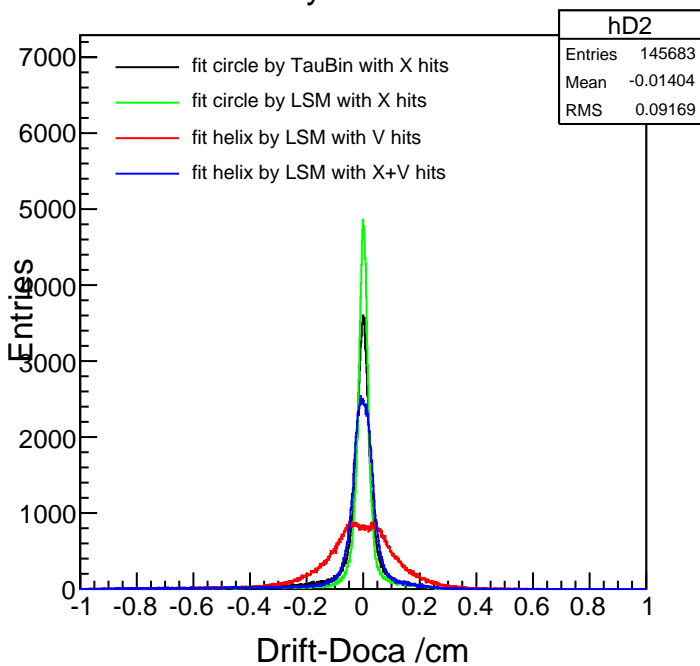
all X hits



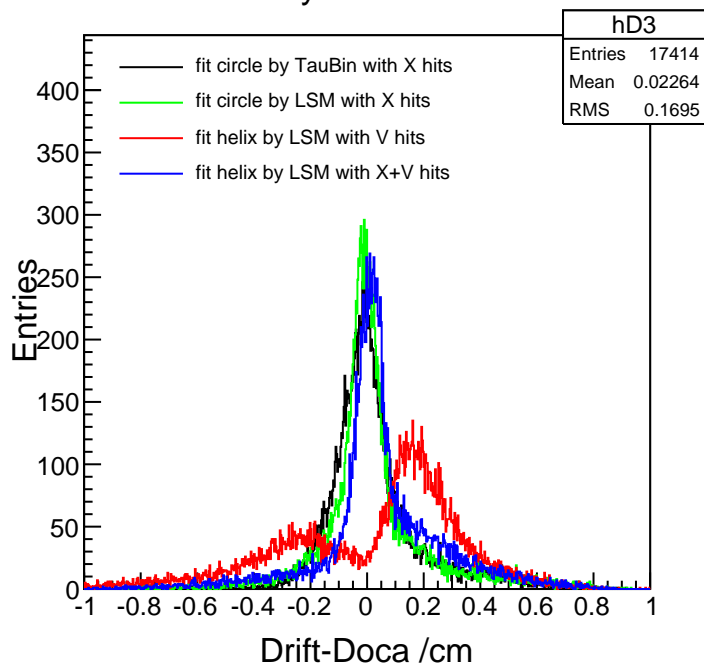
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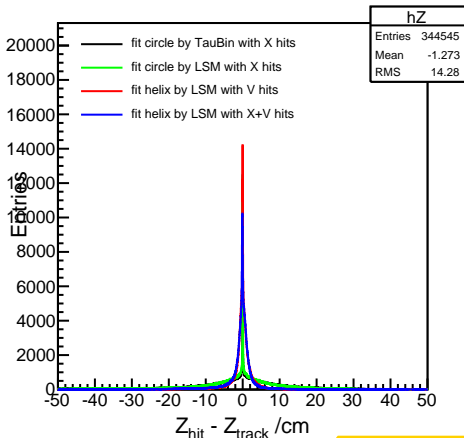
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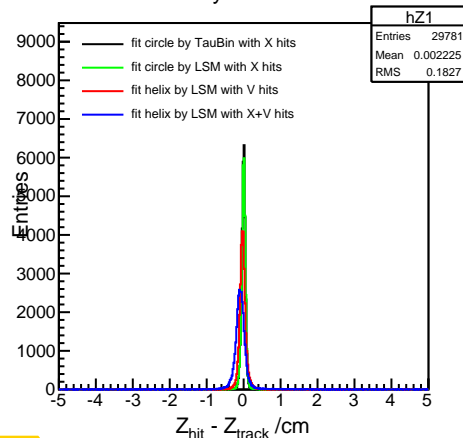
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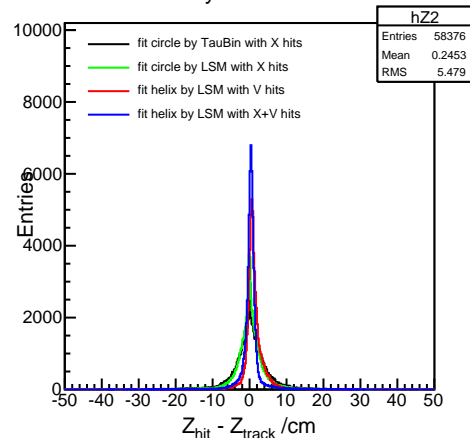
all V hits



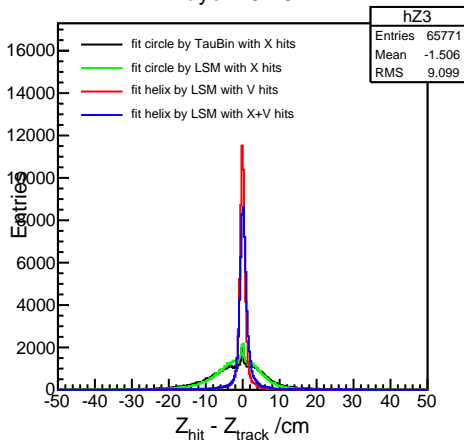
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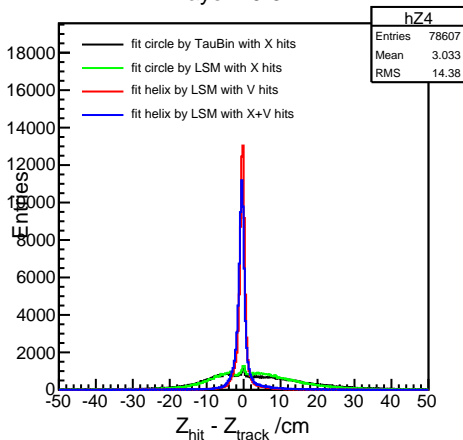
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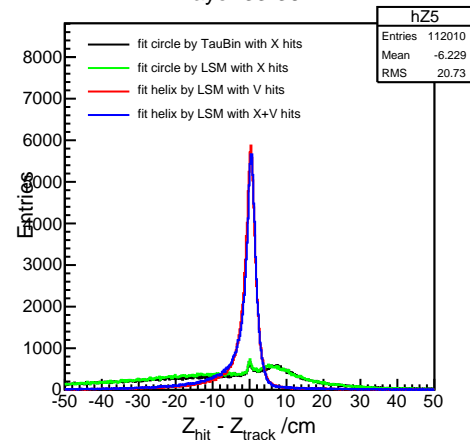
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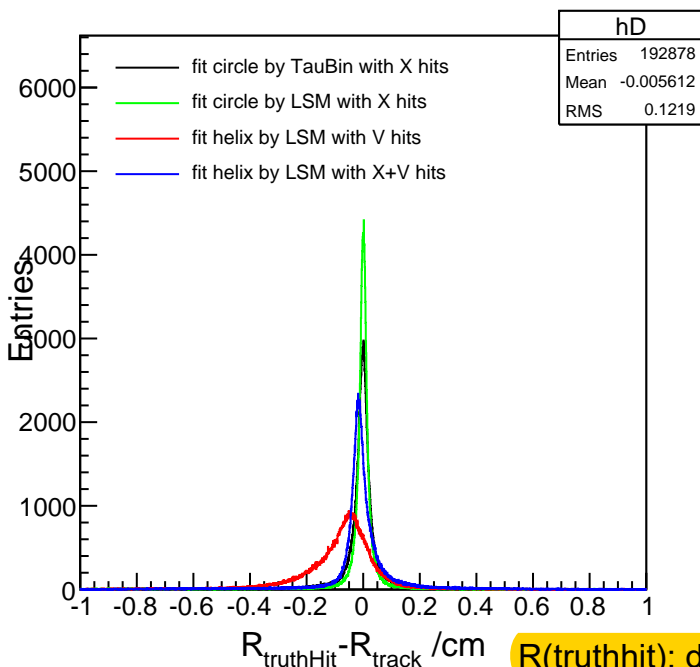
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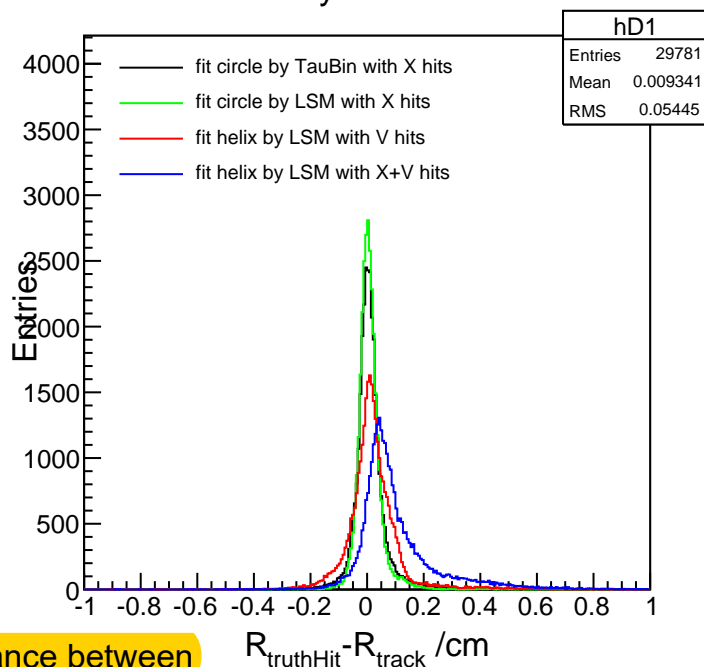
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all X hits



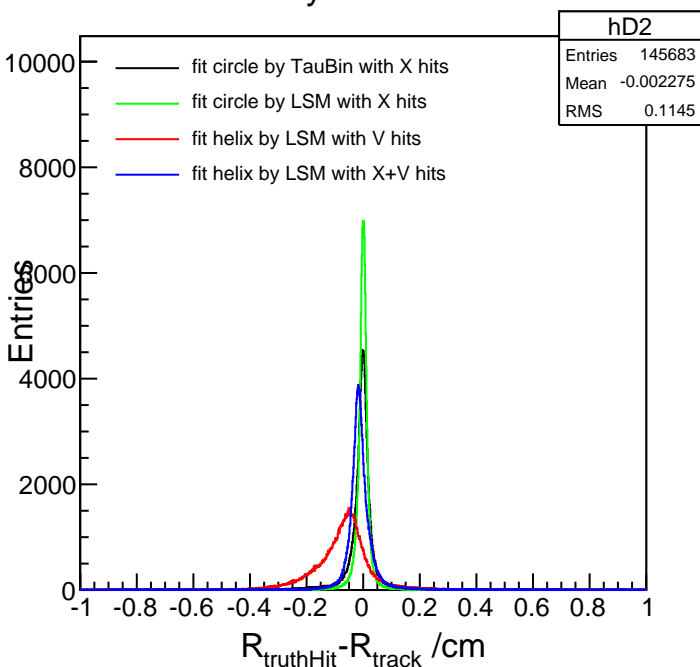
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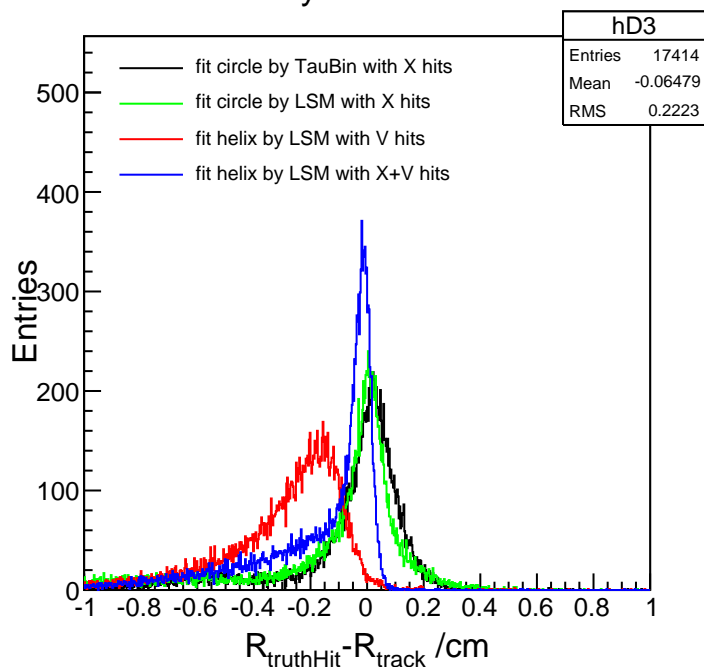
$R(\text{truthhit}) - R(\text{track}) / \text{cm}$

R(truthhit): distance between McHit and track circle center

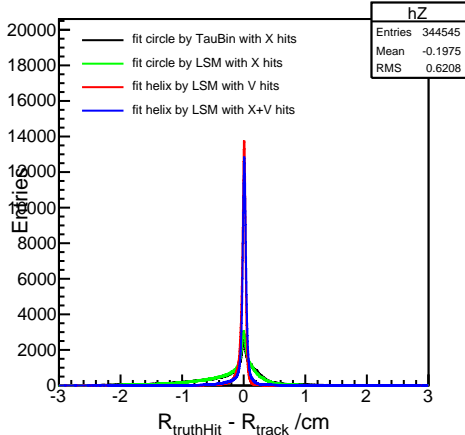
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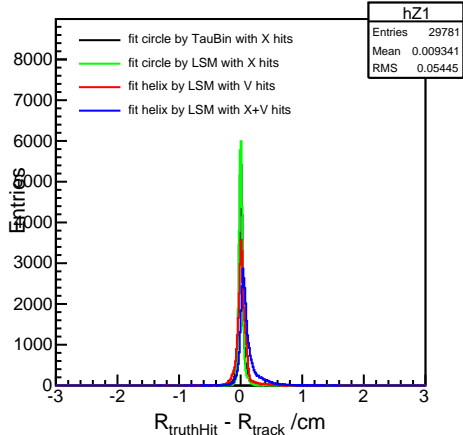
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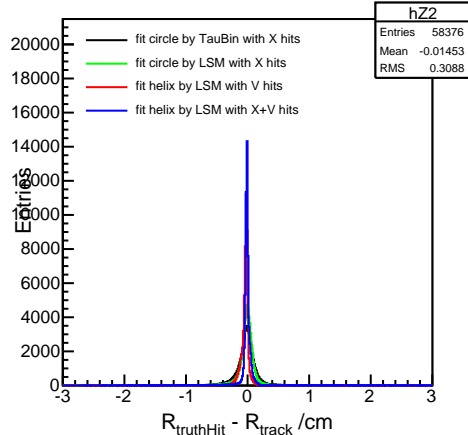
all V hits



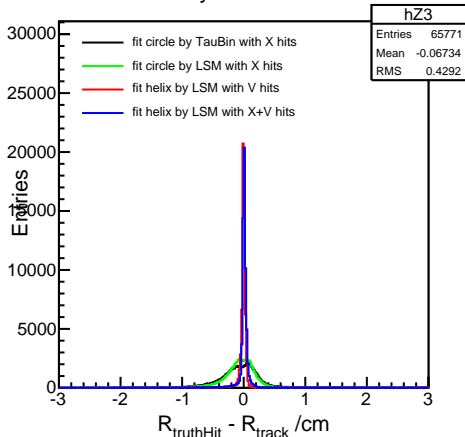
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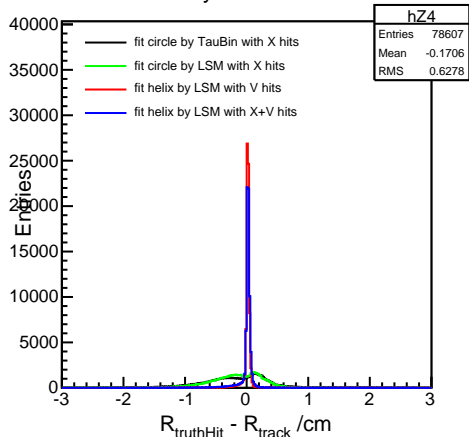
layer:21-24



layer:25-28



layer:29-32



layer:33-36

