Studies of Hit Errors

CMS Alignment Meeting Hamburg
Johannes Hauk
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Situation

- Normalized Residuals show some dependencies

  - Incorrect track or hit errors

- Track cuts eliminate dependencies on track variables like # hits, momentum

- But dependency on track angle wrt. sensor's normal

  - Assumption: hit error derived from track angle is reason

- Look into cluster parameters

$\sigma_{x,hit}$ VS. $\phi_{x,module}$

Entries	1678057
Mean x	-3.975
Mean y	0.002226
RMS x	30.94
RMS y	0.0009501

0	6629	0
0	1671428	0
0	0	0

w_{cl} VS. $\phi_{x,module}$

Entries	1678057
Mean x	-3.965
Mean y	2.58
RMS x	30.88
RMS y	1.499

0	1931	0
0	1676126	0
0	0	0

4