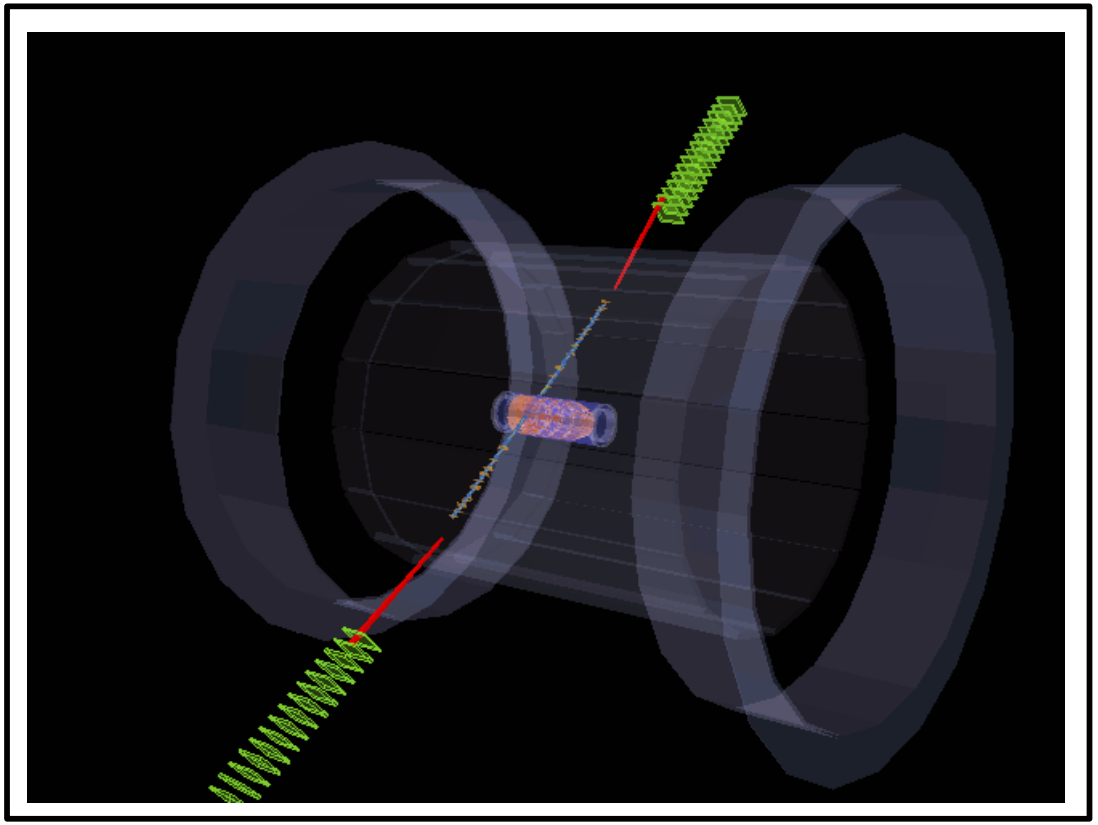
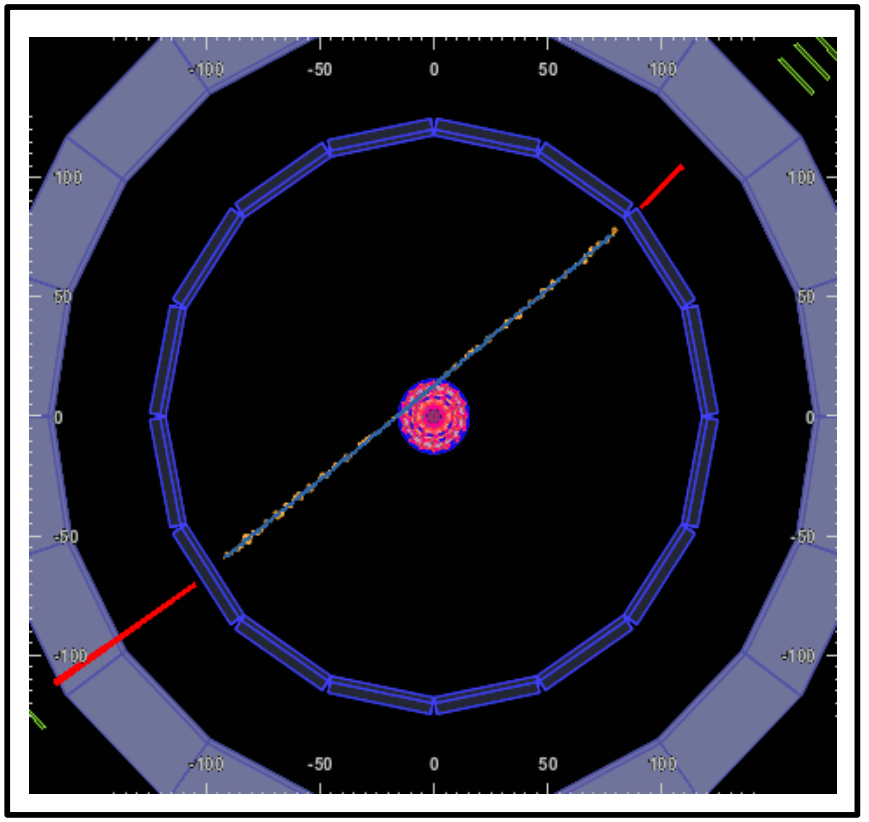
Performances with cosmics

T.Dong, H.Ozaki, K.Trabelsi, M.Uchida





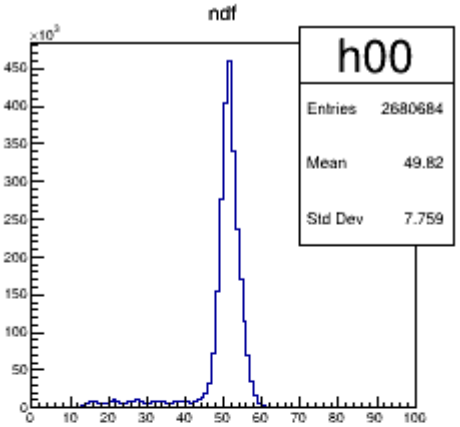
MC/data side by side

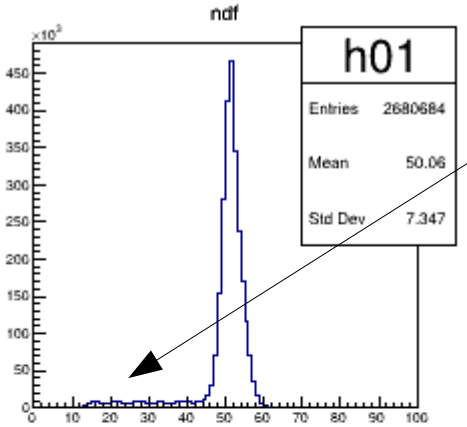
- MC: simulation and reconstruction are consistent
- data, missing B-field mapper, mention that later
- release-00-09-00, constants 2017/07/16

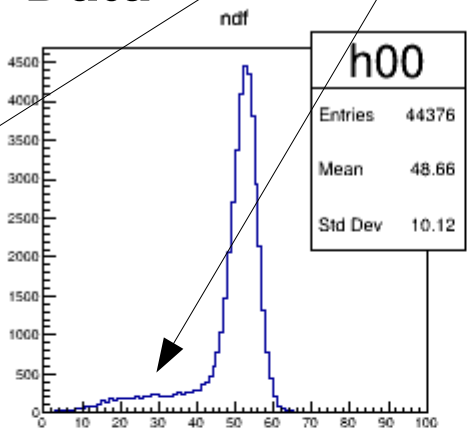
longer tail for low ndf in data

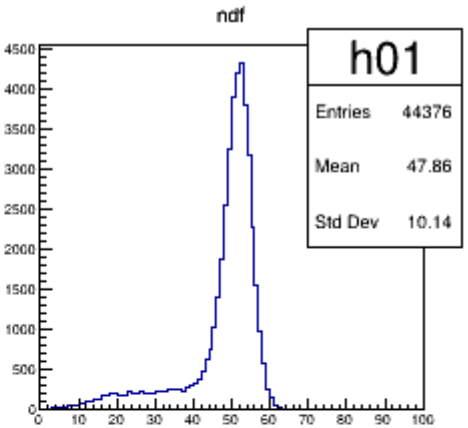
MC

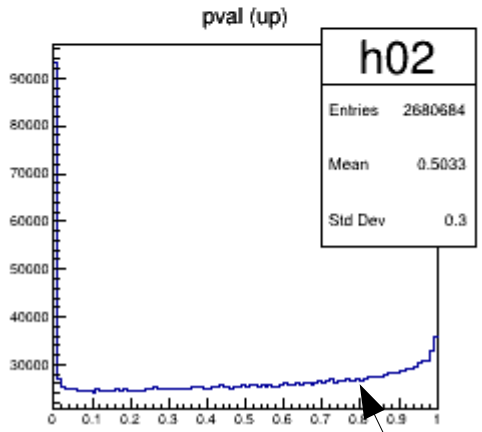
Data

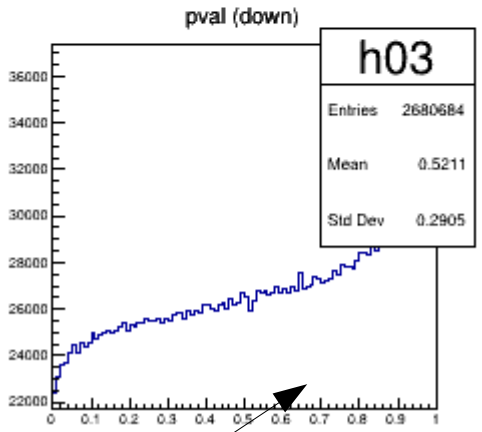


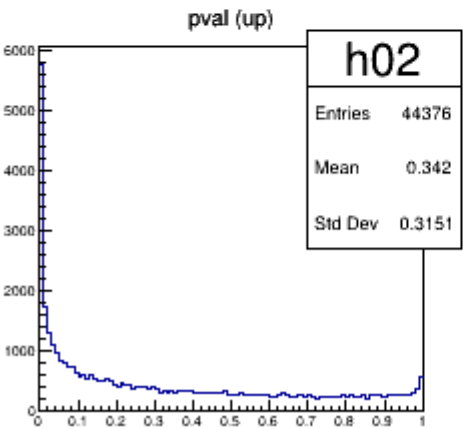


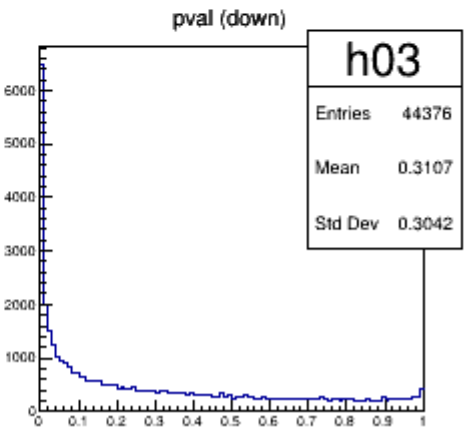










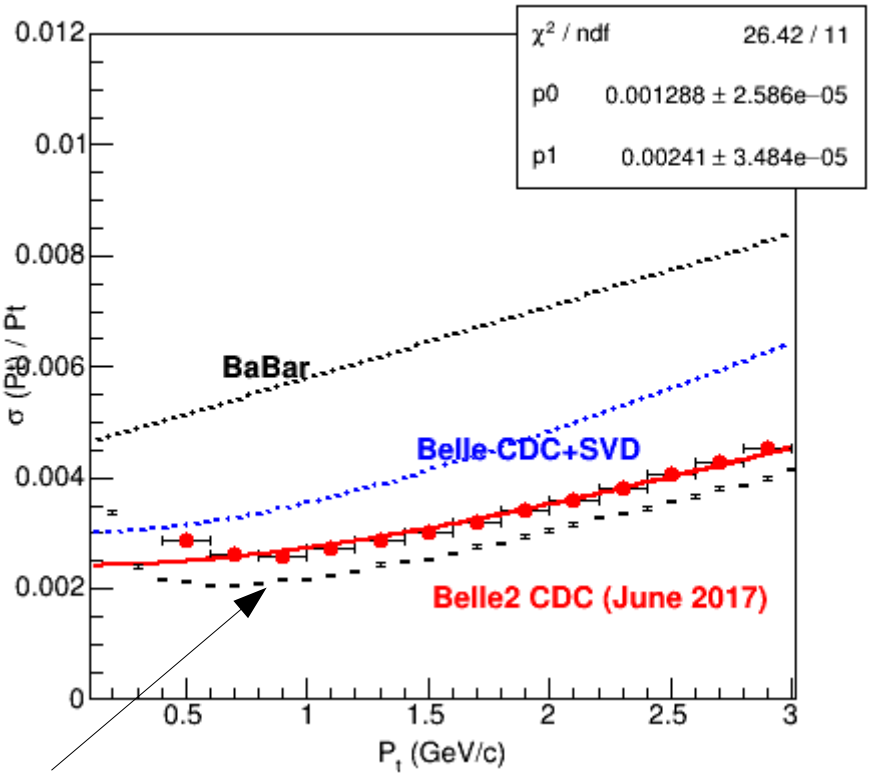


p-value for MC too large ?

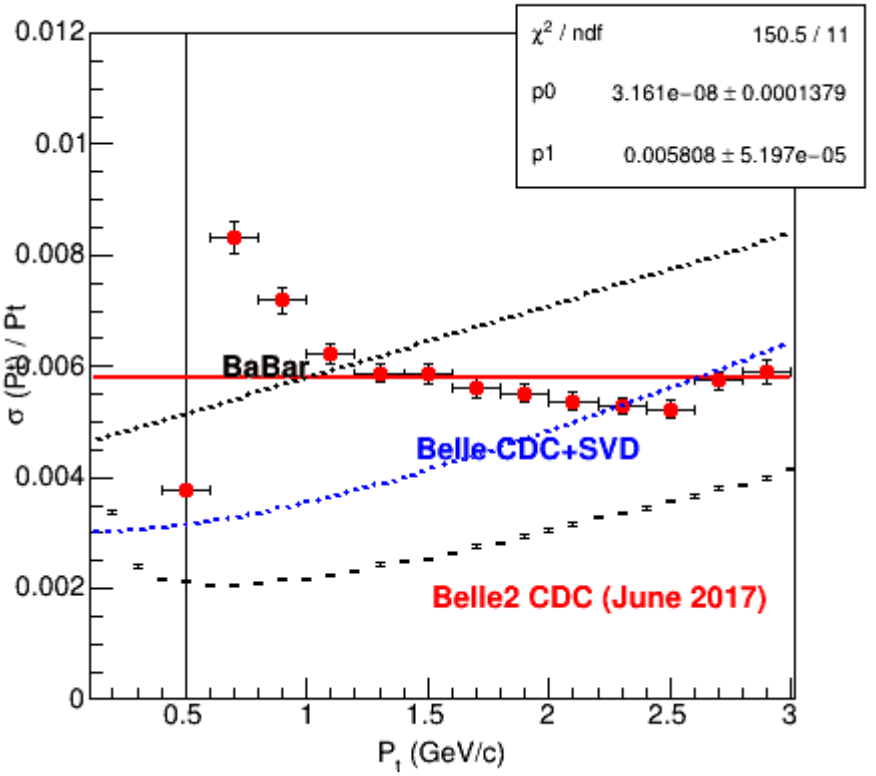
MC/data side by side

use same conditions, broad region around IP: 5 cm × 10 cm, ndf > 25

MC



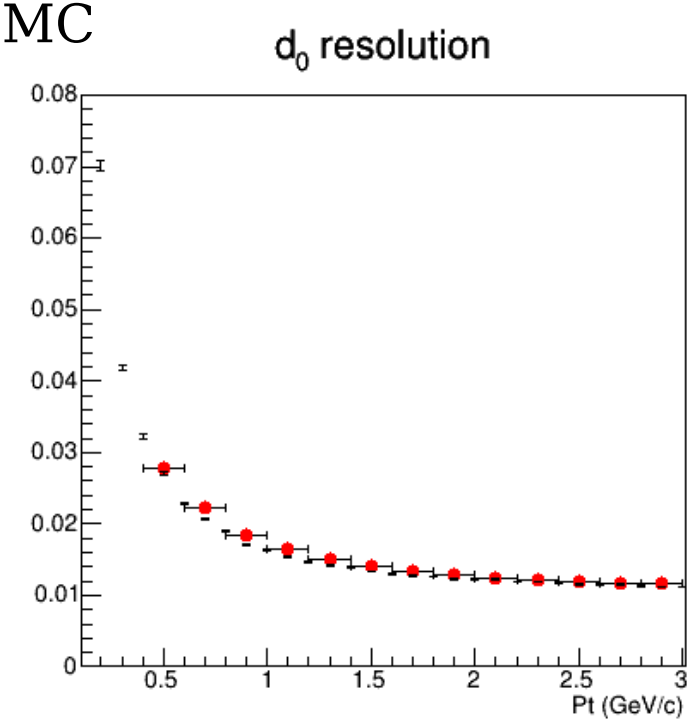
Data



single track from IP

⇒ geometry of B-field mapper will be soon implemented by H. Ozaki
⇒ should be responsible of most of the current shift in Pt

MC



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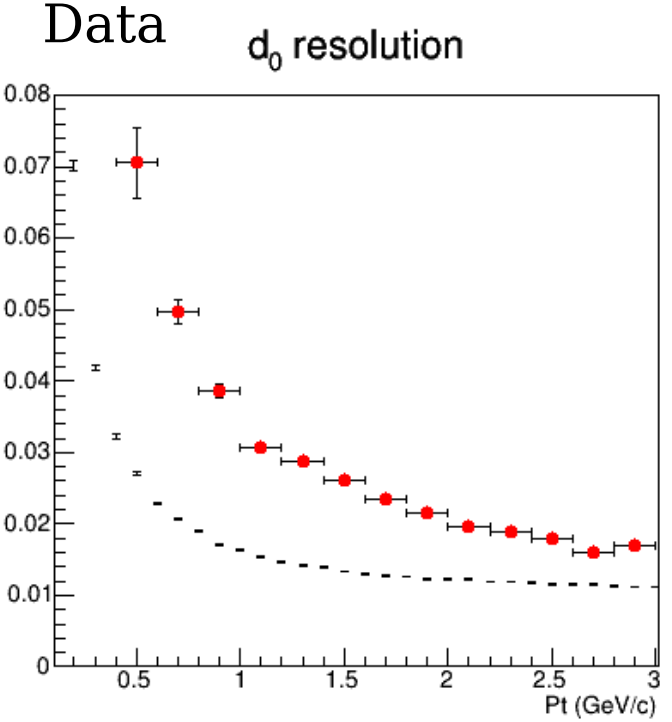
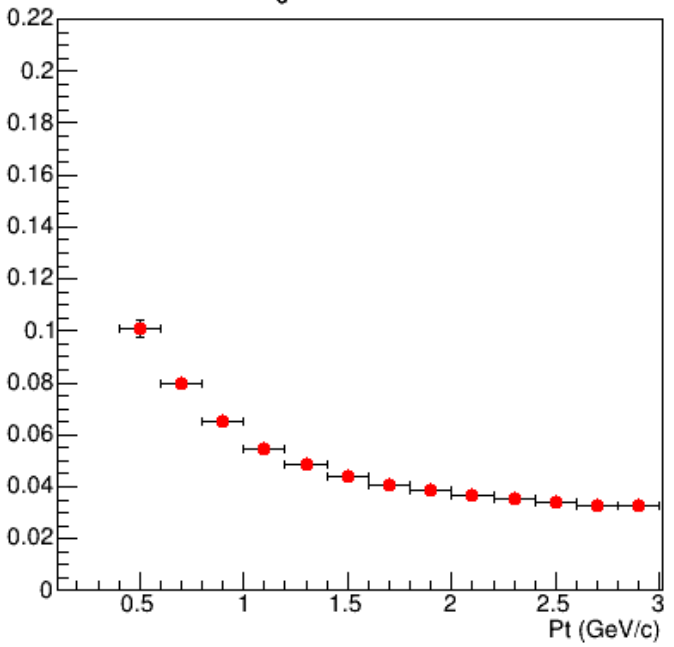


MC



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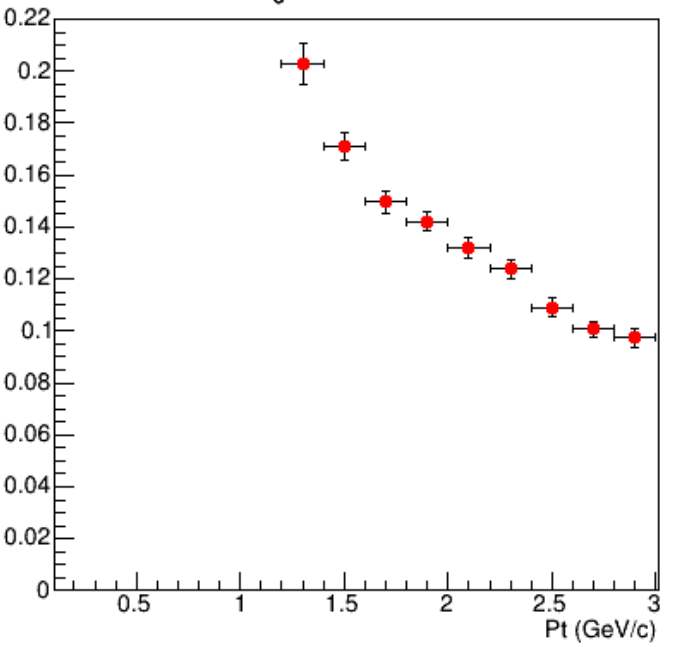
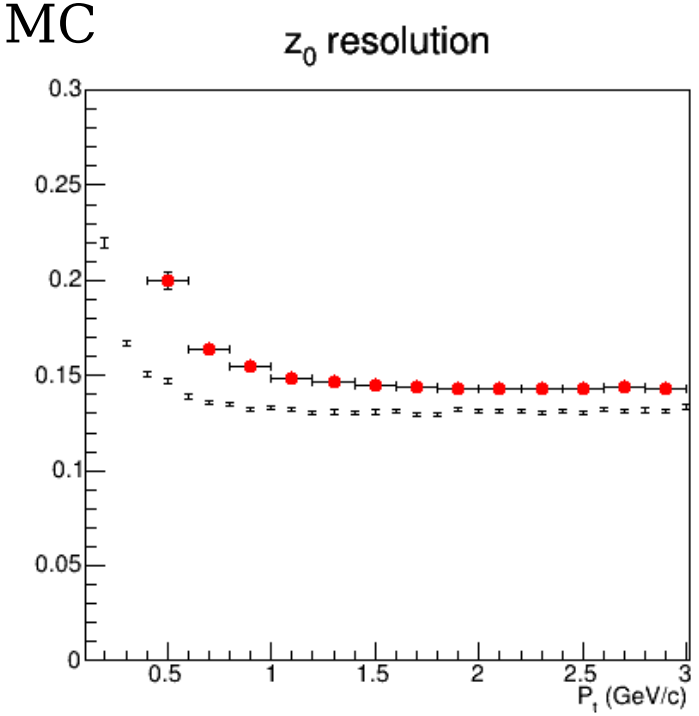


MC



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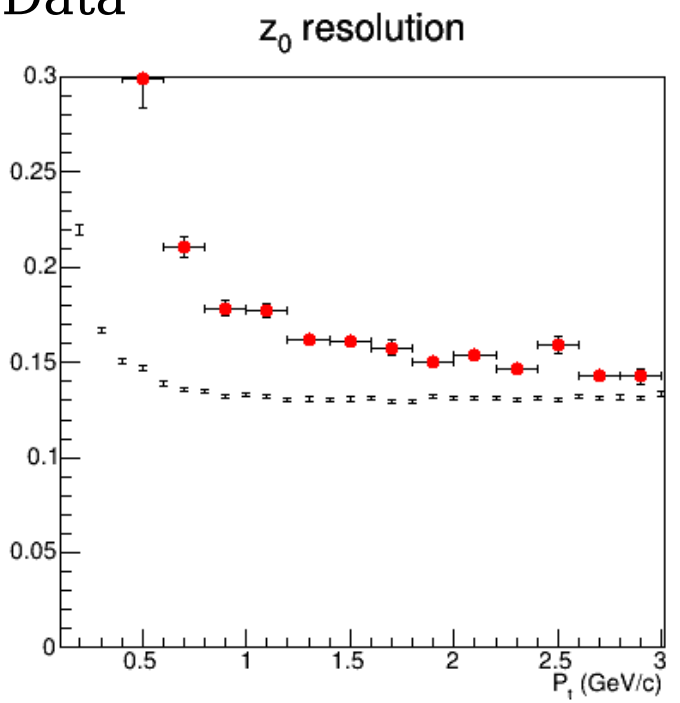
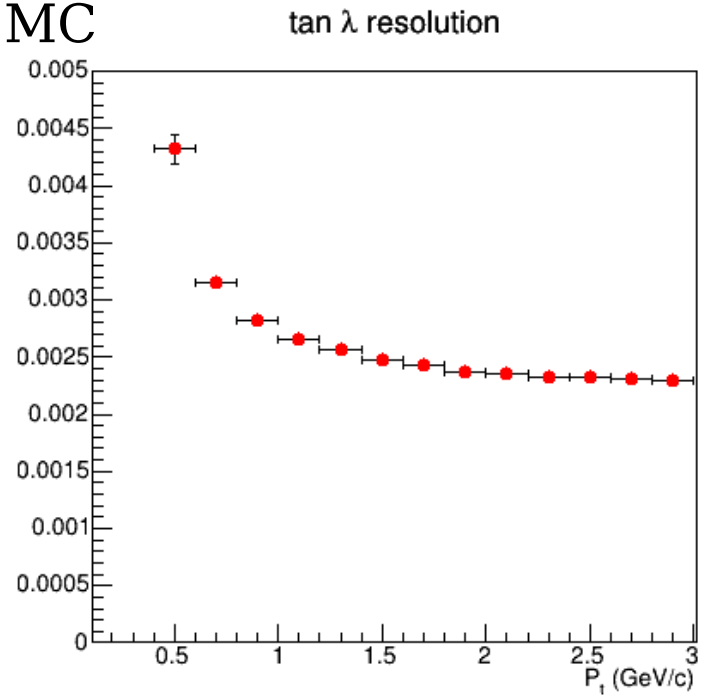


MC



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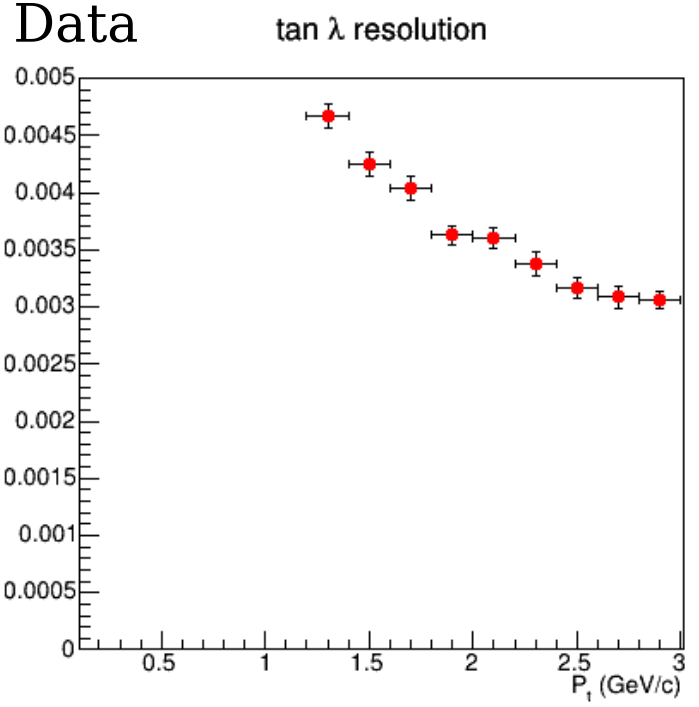
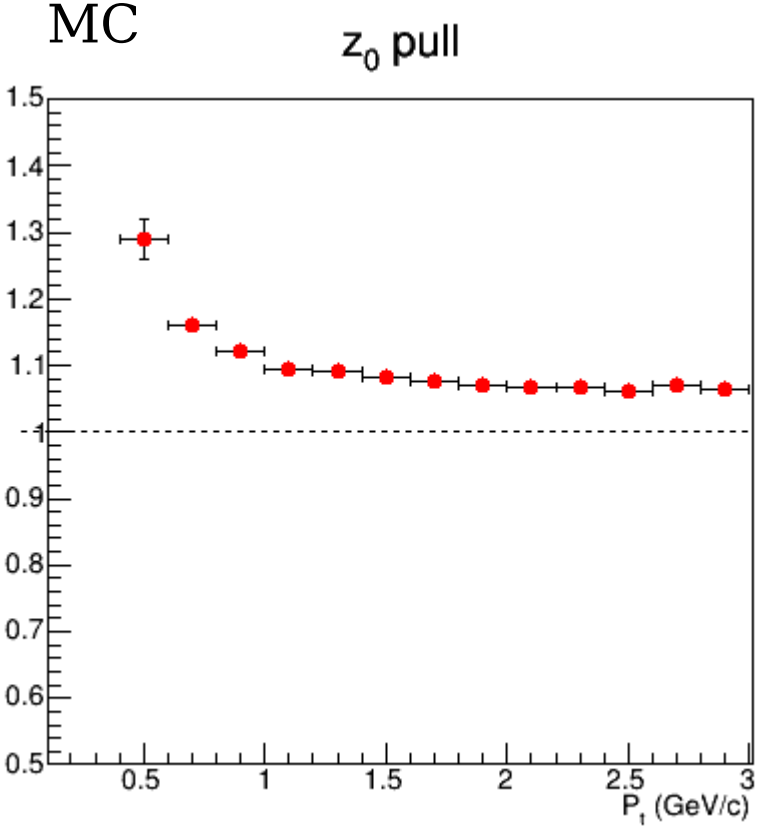


MC



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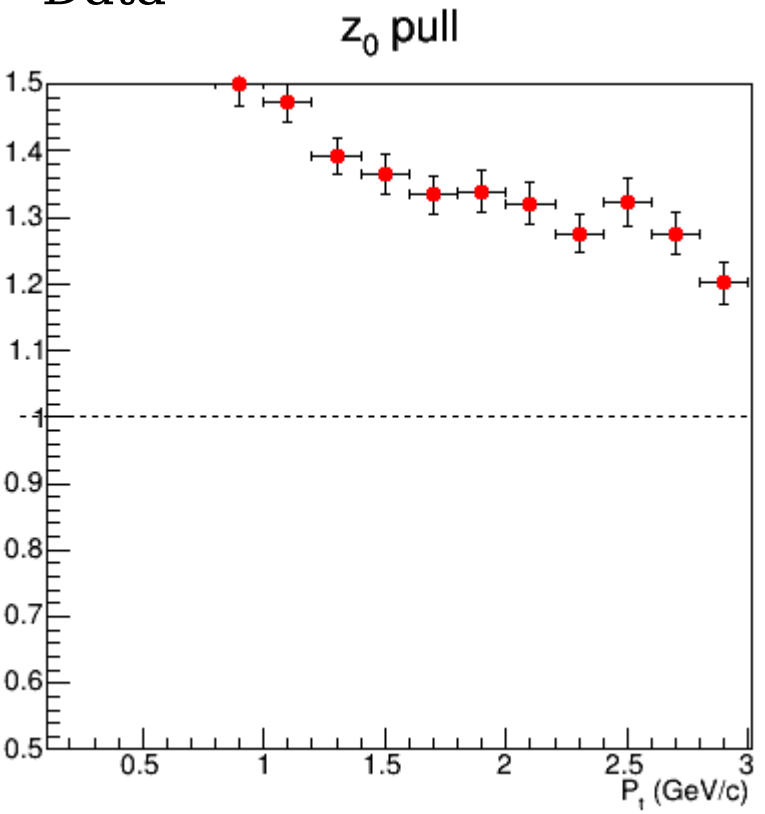
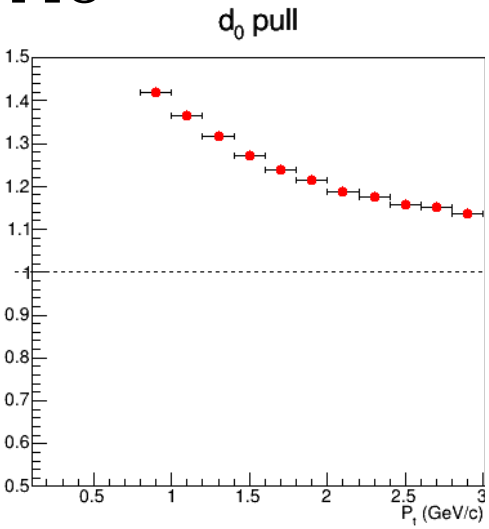
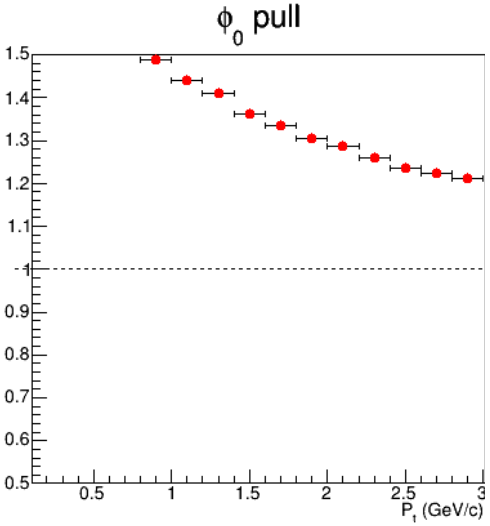
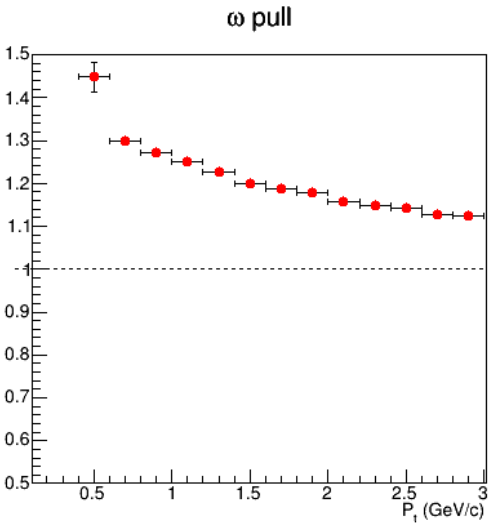
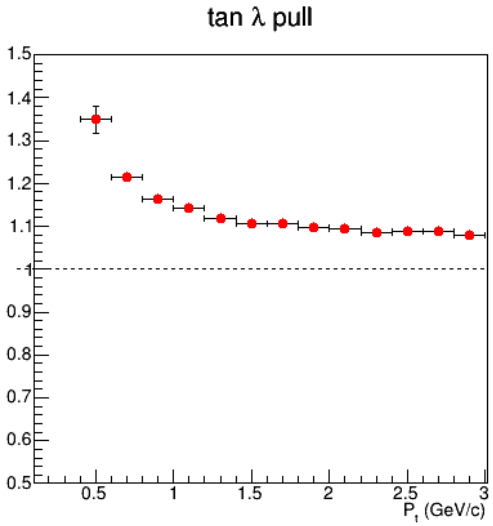


MC









For data, out of range for now...

- most important, improve the geometry/material description
  ⇒ B-field mapper geometry being implemented by H.Ozaki
- magnetic field map used is OK ?
- still remaining issues in MC also: p-value, pulls...
- after implementation of mapper geometry, should improve further calibration constants and alignment (check with Millepede, T.Bilka)

- Ekin Ozgonul is joining the effort (performances evaluation with cosmics)