Alignment Update

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Current Procedure (old constants)

Run 2

fudge factor = 1.0

0.919 mrad difference

Delta Phi (rad)
Current Procedure (old constants)

Run6

fudge factor = 1.0

0.808 mrad difference

Delta Phi (rad)
New Procedure with Energy Cut
(old constants) Run 2

Delta Phi (rad)

0.029 mrad difference
New Procedure with Energy Cut
(old constants) Run 6

0.155 mrad difference
New Procedure (new constants)
Run 2

0.041 mrad difference
New Procedure (new constants)

Run 6

0.137 mrad difference

Endcap better behaved
New Procedure (new constants)
Run 5

0.036 mrad difference
To Do…

• Twist appears to be constant over Runs 2, 5, and 6
  – Try to incorporate the twist into existing BaBar code since a new constant cannot be added to database

• Investigate endcap behavior
  – Why does endcap become better behaved using new formula?