Update MilleKs

Fill the derivatives only when both pi+ and pi- tracks are “smoothed”

= Smoothing process of Kalman filtering is successfully applied.

(I realized Millepede was showing some warnings due to non-“smoothed” tracks.)

Issue

Analyzer crash occurs at a fixed probability when using local CCDB.

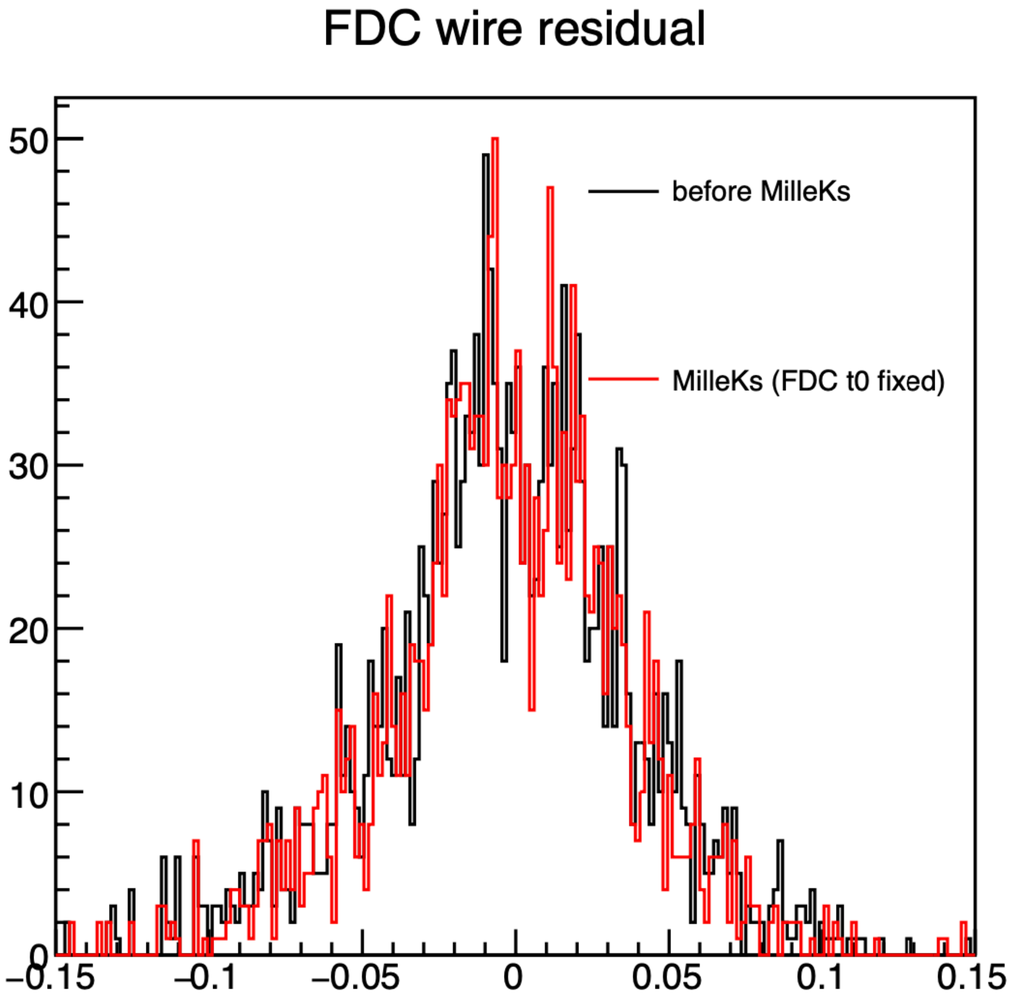
* no error messages.
* Output root file size ~ 600 (or, sometimes ~2000) when crashed
* Results (file size) change each time I run the analyzer.
  * Sometimes succeed, sometimes fail.
* Also, analysis speed is very slow compared to when using official CCDB

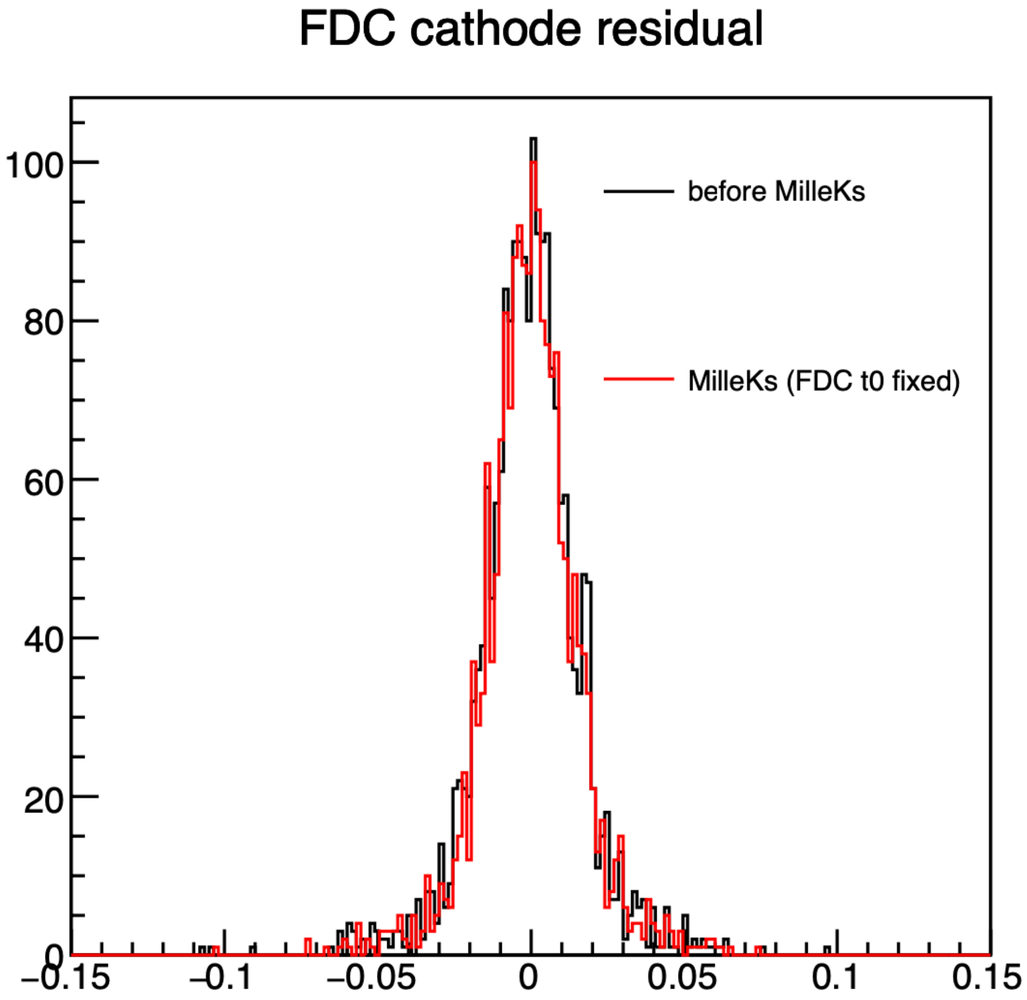
hd_milleks_*.root are generated using
mysql://ccdb_user@hallddb.jlab.org/ccdb

c0[12]_hd_milleks_*.root are generated using local CCDB.

```
[ifarm1901:/w/halld-scifs17exp/home/keigo/20210503/kshort]$ ls -l rt/*hd_milleks_030276_00*.root
-rw-r--r-- 1 keigo halld 1629758 May 25 07:44 rt/c01_hd_milleks_030276_000.root
-rw-r--r-- 1 keigo halld 1620336 May 25 07:49 rt/c01_hd_milleks_030276_001.root
-rw-r--r-- 1 keigo halld 1620226 May 25 07:53 rt/c01_hd_milleks_030276_002.root
-rw-r--r-- 1 keigo halld     592 May 25 07:54 rt/c01_hd_milleks_030276_003.root
-rw-r--r-- 1 keigo halld 1628851 May 25 07:59 rt/c01_hd_milleks_030276_004.root
-rw-r--r-- 1 keigo halld 1625096 May 25 08:03 rt/c01_hd_milleks_030276_005.root
-rw-r--r-- 1 keigo halld 1631704 May 25 08:08 rt/c01_hd_milleks_030276_006.root
-rw-r--r-- 1 keigo halld     592 May 25 08:09 rt/c01_hd_milleks_030276_007.root
-rw-r--r-- 1 keigo halld 1618909 May 25 08:14 rt/c01_hd_milleks_030276_008.root
-rw-r--r-- 1 keigo halld 1617996 May 25 08:18 rt/c01_hd_milleks_030276_009.root
-rw-r--r-- 1 keigo halld 1628635 May 25 07:59 rt/c02_hd_milleks_030276_000.root
-rw-r--r-- 1 keigo halld 1620415 May 25 08:04 rt/c02_hd_milleks_030276_001.root
-rw-r--r-- 1 keigo halld 1619054 May 25 08:08 rt/c02_hd_milleks_030276_002.root
-rw-r--r-- 1 keigo halld     592 May 25 08:09 rt/c02_hd_milleks_030276_003.root
-rw-r--r-- 1 keigo halld 1628807 May 25 08:14 rt/c02_hd_milleks_030276_004.root
-rw-r--r-- 1 keigo halld 1624637 May 25 08:18 rt/c02_hd_milleks_030276_005.root
-rw-r--r-- 1 keigo halld     592 May 25 08:18 rt/c02_hd_milleks_030276_006.root
-rw-r--r-- 1 keigo halld 1625953 May 25 08:24 rt/c02_hd_milleks_030276_007.root
-rw-r--r-- 1 keigo halld 1619294 May 25 08:28 rt/c02_hd_milleks_030276_008.root
-rw-r--r-- 1 keigo halld     592 May 25 08:29 rt/c02_hd_milleks_030276_009.root
-rw-r--r-- 1 keigo halld 1628982 May 25 01:10 rt/hd_milleks_030276_000.root
-rw-r--r-- 1 keigo halld 1620266 May 25 01:11 rt/hd_milleks_030276_001.root
-rw-r--r-- 1 keigo halld 1619709 May 25 01:11 rt/hd_milleks_030276_002.root
-rw-r--r-- 1 keigo halld 1620542 May 25 01:11 rt/hd_milleks_030276_003.root
-rw-r--r-- 1 keigo halld 1629626 May 25 01:11 rt/hd_milleks_030276_004.root
-rw-r--r-- 1 keigo halld 1624113 May 25 01:12 rt/hd_milleks_030276_005.root
-rw-r--r-- 1 keigo halld 1631393 May 25 01:12 rt/hd_milleks_030276_006.root
-rw-r--r-- 1 keigo halld 1623802 May 25 01:12 rt/hd_milleks_030276_007.root
-rw-r--r-- 1 keigo halld 1621075 May 25 01:12 rt/hd_milleks_030276_008.root
-rw-r--r-- 1 keigo halld 1618206 May 25 01:13 rt/hd_milleks_030276_009.root
```

I picked up common “well-generated” ROOT files so that I can fairly compare the results.





Run 30274. It seems that FDC t0 is not fully optimized for this run, and we can see a slight double peak for wire res.
But at least, MilleKs does not change the residual drastically.