

STOFF 5-10 March

E. Meninno

LHC12a17g_fix (MC anchored to LHC11h)

LHC11h pass2

LHC13g cpass1 (only 2 runs)

LHC12a17g_fix anchored to LHC11h: analysed run list (107)

167915 167920 167985 167987 168069 168076 168105 168107
168108 168115 168310 168311 168322 168325 168341 168342
168361 168362 168458 168460 168464 168467 168511 168512
168514 168777 168826 168988 168992 169035 169040 169044
169045 169091 169094 169099 169138 169144 169145 169148
169156 169160 169167 169238 169411 169415 169417 169418
169419 169420 169475 169498 169504 169506 169512 169515
169550 169553 169554 169555 169557 169586 169587 169588
169590 169591 169835 169837 169838 169846 169855 169858
169859 169923 169965 170027 170040 170081 170083 170084
170085 170088 170089 170091 170155 170159 170163 170193
170203 170204 170207 170228 170230 170268 170269 170270
170306 170308 170309 170311 170312 170313 170315 170387

Good runs

TOF off

No QA Output

LHC11h pass2: analyzed run list (103)

167915 167920 167985 167987 168069 168076 168105 168107
168108 168115 168310 168311 168322 168325 168341 168342
168361 168362 168458 168460 168467 168511 168512 168514
168777 168826 168988 168992 169035 169040 169044 169091
169094 169099 169138 169144 169145 169148 169156 169160
169167 169238 169411 169415 169417 169418 169419 169420
169475 169498 169504 169506 169512 169515 169550 169553
169554 169555 169557 169586 169587 169588 169590 169591
169835 169837 169838 169846 169855 169858 169859 169923
169965 170027 170081 170083 170084 170085 170088 170089
170091 170155 170159 170163 170193 170203 170204 170207
170228 170230 170268 170269 170270 170306 170308 170309
170312 170313 170315 170387 170388 170572 170593

Good runs

TOF off

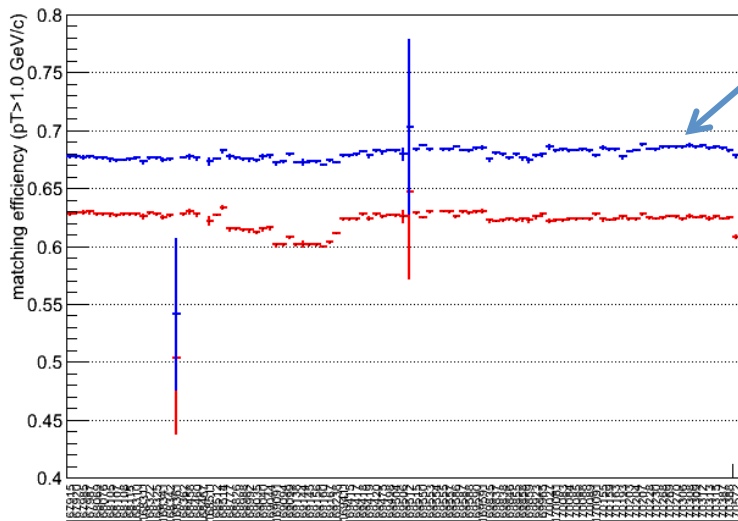
No QA Output

Matching efficiency

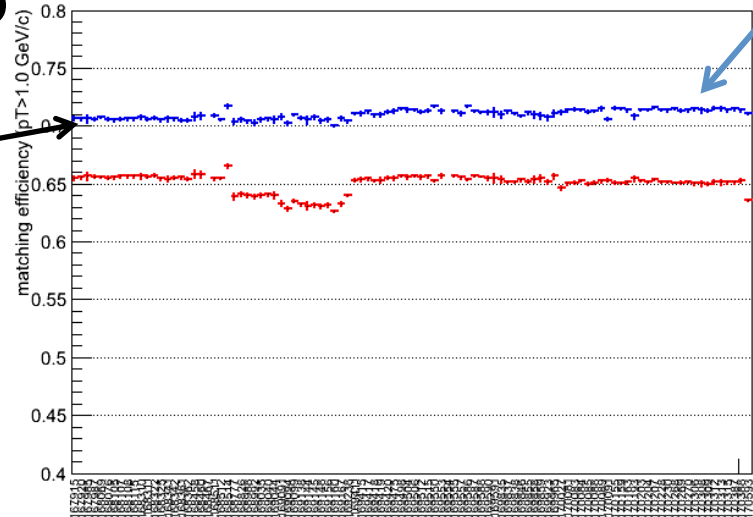
LHC11h

LHC12a17g_fix

Matching efficiency (linear fit for $p_T > 1.0$ GeV/c)



Matching efficiency (linear fit for $p_T > 1.0$ GeV/c)



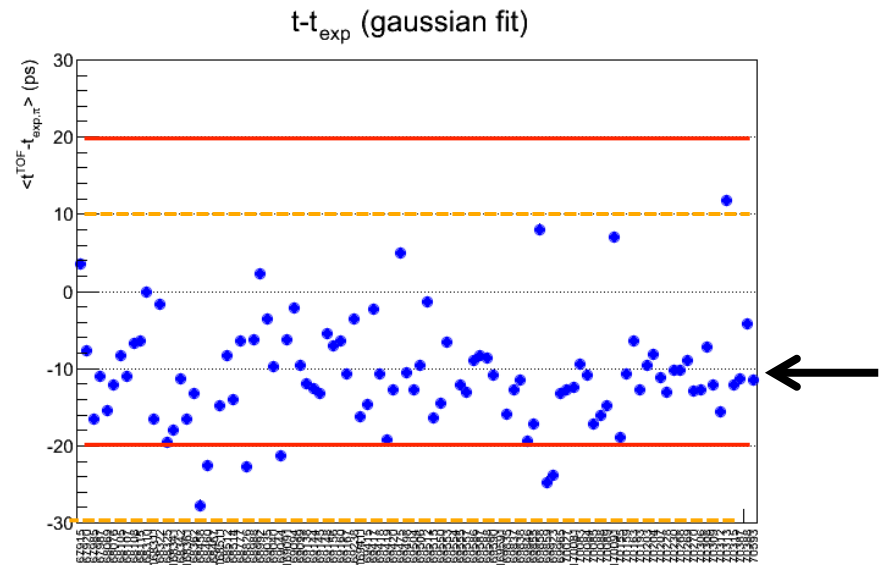
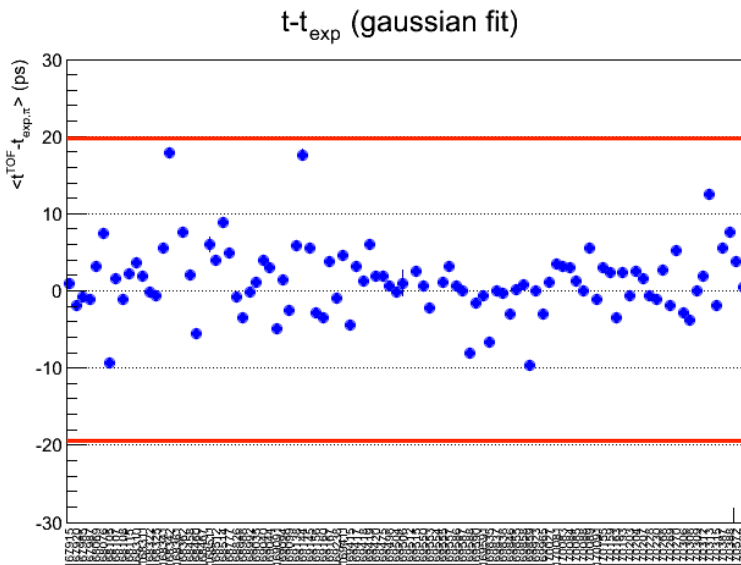
— Matching efficiency not normalized
— Matching efficiency normalized to percentage of TOF good channels

No agreement between real data and anchored MC: $\epsilon_{MC} > \epsilon_{real\ data}$; why?
To be investigated

$$t_{\text{TOF}} - t_{\text{exp}}(\pi)$$

LHC11h

LHC12a17g-fix



$t_{\text{TOF}} - t_{\text{exp}}(\pi)$ mean value ~ -10 for MC production: why?
To be investigated

LHC13g cpass1: analyzed run list (2)

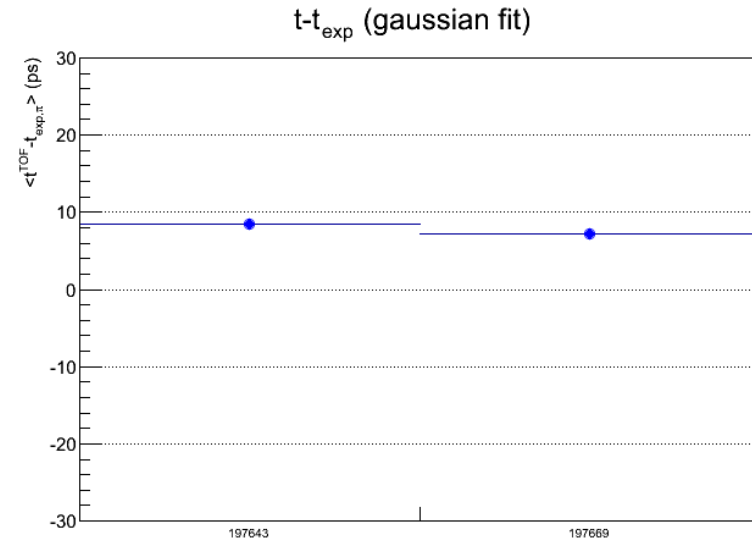
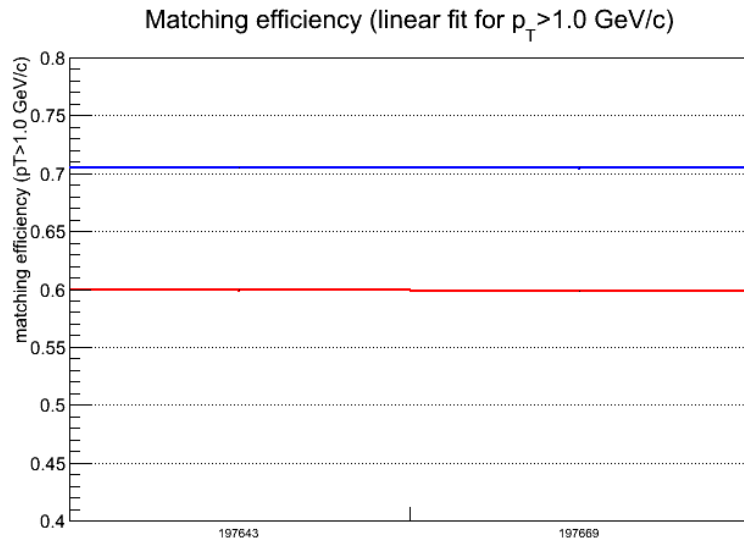
197643 197669

Good runs

LHC13g cpass1

Matching Efficiency

$$t_{\text{TOF}} - t_{\text{exp}}(\pi)$$



Good average matching efficiency (71%)

Good time alignment ($\Delta t < 10$ ps)