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Data processed in Dec 2005 - Jan 2006.

This data has been skimmed from PNN2-ntuples with the following cuts: OR of 1/3 skims, BAD_RUN, (BOX2 or boxcuts), RSDEDXMAX, RSDEDXCL on the PNN2_SKIM set.

With the presence of PNN1box or PNN2box as a cut indicates the following

PNN1 = PNN1 Trigger, layv4pnn1 cut

PNN2 = PNN1+PNN2 Trigger

Tables 1-5 are a summary of the long tables that follow.

The long tables track the events on a cut-by-cut basis. There are 3 columns per data set analyzed. In each column the first number in the cell is the number of events and the number in parenthesis is the rejection. The 1st column is the cuts applied sequentially; the 2nd is the application of only the listed cut; The 3rd is the number of events remaining before this cut is applied and the rejection of the cut.

<i>rejection (n)</i>	pnn2cpi
<i>Loose Setup</i>	1887.3 ± 1089.4 (3)
<i>TD</i>	1712.0 ± 1210.2 (2)
<i>TD · KIN</i>	1402.0 ± 1401.5 (1)

Table 1: **1-Beam Rejection Summary** of Tables 6-8. Each row is a different branch to measure the rejection. First number is the rejection. The number in parenthesis is the number of events remaining that the rejection is based upon. The minimum rejection is used in calculation of the 1-BM background for a conservative estimate.

<i>Norm. branches</i>	pnn2cpi
ALL cuts below NORM	1.0 ± 1.0
<i>PV · TD norm</i>	49.0 ± 7.0
<i>CkTRS · CkTail rej</i>	2.9 ± 0.2
<i>BADEX norm</i>	1.0 ± 1.0
<i>CpiTRS · CpiTail rej</i>	0.0 ± 0.0
N_K	25.9 ± 4.0
N_{pi}	99999.0 ± 2040.8

Table 2: **1-Beam Normalization Summary** of Tables 9-13. The ALL-cuts-below row uses the combination of all cuts in the following 4 rows (branches) and is the normalization number used in the calculation of the numbers reported in Table 5 (Total Background). The sum of the last two rows provide a check on the ALL-cuts-below number.

<i>rejection (n)</i>	pnn2cpi
$Rej_{K-K} : BWTRS \cdot CkTRS \cdot CkTail$	$30.2 \pm 2.3 (166)$
$Rej_{K-\pi} : BWTRS \cdot CpiTRS \cdot CpiTail$	$6.0 \pm 0.7 (68)$

Table 3: **2-Beam Rejection Summary** of Tables 14-15. First number is the rejection. The number in parenthesis is the number of events remaining that the rejection is based upon. K-K is the case where two Kaons are entering the beam. K-pi is the case where we have a Kaon and a Pion entering.

<i>Norm. branches</i>	pnn2cpi
$K-K_n : B4TRS \cdot B4CCD$	4.0 ± 2.0
$K-K_r : TG \cdot TGKIN \cdot TGPV$	4.0 ± 2.0
$K-\pi_n : B4TRS \cdot B4CCD$	3.0 ± 1.7
$K-\pi_r : TG \cdot TGKIN \cdot TGPV$	3.0 ± 1.7
N_{K-K}	1.3 ± 0.9
$N_{K-\pi}$	1.5 ± 1.2

Table 4: **2-Beam Normalization Summary** of Tables 16-19. The 2-BM Normalization has 2 branches that are further bifurcated. $K-K_{r,n}$, $K-\pi_{r,n}$ are the results of the bifurcations, r=rejection, n=normalization, which we used to determine the last two rows. N_{K-K} and $N_{K-\pi}$ are the 2-BM normalization values which are used in combination with Table 3 to give the final background in Table 5.

<i>Bkgrnd ($\times 10^{-3}$)</i>	k034	e787	pnn2cpi
1-BM	3.86 ± 2.36	1.66 ± 1.66	2.14 ± 2.14
2-BM KK	0.983 ± 0.983	145.9 ± 145.9	136.75 ± 97.26
2-BM $K\pi$	0.106 ± 0.106	19.7 ± 19.7	894.63 ± 737.15
2-BM	1.14 ± 1.14	165.6 ± 165.6	1031.38 ± 743.54
<i>Total</i>	5.00 ± 2.62	167.3 ± 167.3	1033.52 ± 743.55

Table 5: **Total Background.** Scaled to the 3/3 sample. k034 column is the result of e949-pnn1 analysis. e787 is the result of the e787-PNN2 analysis. The other columns are current results that is expanded upon throughout the rest of the tables. The errors are statistical. KB_{live} for k034 is 1.77×10^{12} and for e787 is 1.71×10^{12} . e787 background has been scaled up accordingly for comparison purposes.

Table 6: 1-Beam Rejection. Branch no. 1

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
$b4abm < 1.0$	53103 (0.00)	1060794 (1.05)	1282 (427.33)
$PNN2box$	53103 (1.00)	0 (1113897.00)	3 (1.00)
$rsdedxmax$	53103 (1.00)	0 (1113897.00)	3 (1.00)
$rsdedxcl$	53103 (1.00)	0 (1113897.00)	3 (1.00)
$rslike$	53103 (1.00)	0 (1113897.00)	3 (1.00)
$rngmom$	36907 (1.44)	522563 (2.13)	25 (8.33)
$pv(nottg)$	24446 (1.51)	559865 (1.99)	22 (7.33)
$bwtrs$	19714 (1.24)	254673 (4.37)	3 (1.00)
$b4trs$	16752 (1.18)	250270 (4.45)	4 (1.33)
$b4ccd$	16740 (1.00)	18383 (60.59)	3 (1.00)
$tgqualt$	15359 (1.09)	81985 (13.59)	4 (1.33)
$timcon$	15226 (1.01)	15693 (70.98)	3 (1.00)
$epitg$	15147 (1.01)	39573 (28.15)	3 (1.00)
$tger$	15058 (1.01)	30970 (35.97)	3 (1.00)
$targf$	14403 (1.05)	181421 (6.14)	6 (2.00)
$ticcon$	14402 (1.00)	260 (4284.22)	3 (1.00)
$dtgttp$	14401 (1.00)	754 (1477.32)	3 (1.00)
$rtdif$	14094 (1.02)	15226 (73.16)	3 (1.00)
$epimax$	13314 (1.06)	78456 (14.20)	3 (1.00)
drp	12995 (1.02)	19054 (58.46)	3 (1.00)
$phivtx1$	10399 (1.25)	257571 (4.32)	7 (2.33)
$aiccon$	10130 (1.03)	51501 (21.63)	3 (1.00)
$opsveto$	8469 (1.20)	365884 (3.04)	5 (1.67)
kic	7798 (1.09)	184974 (6.02)	4 (1.33)
$tggeo$	6883 (1.13)	458436 (2.43)	5 (1.67)
$tdedge$	6563 (1.05)	113066 (9.85)	3 (1.00)
$tgzfool$	6546 (1.00)	22511 (49.48)	3 (1.00)
$upvtrs$	6056 (1.08)	36694 (30.36)	3 (1.00)
$rvtrs$	6010 (1.01)	21969 (50.70)	3 (1.00)
$tgtcon$	5849 (1.03)	94983 (11.73)	10 (3.33)
$b4etcon$	5662 (1.03)	28832 (38.63)	3 (1.00)
$DELIC(0.)$	3 (1887.33)	663499 (1.68)	5662 (1887.33)
Total Rej.	1887.33		

Table 7: 1-Beam Rejection. Branch no. 2

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>b4abm < 1.0</i>	53103 (0.00)	1060794 (1.05)	655 (327.50)
<i>PNN2box</i>	53103 (1.00)	0 (1113897.00)	2 (1.00)
<i>rsdedxmax</i>	53103 (1.00)	0 (1113897.00)	2 (1.00)
<i>rsdedxcl</i>	53103 (1.00)	0 (1113897.00)	2 (1.00)
<i>rslike</i>	53103 (1.00)	0 (1113897.00)	2 (1.00)
<i>rngmom</i>	36907 (1.44)	522563 (2.13)	2 (1.00)
<i>pv(nottg)</i>	24446 (1.51)	559865 (1.99)	13 (6.50)
<i>bwtrs</i>	19714 (1.24)	254673 (4.37)	2 (1.00)
<i>b4trs</i>	16752 (1.18)	250270 (4.45)	3 (1.50)
<i>b4ccd</i>	16740 (1.00)	18383 (60.59)	2 (1.00)
<i>tgqualt</i>	15359 (1.09)	81985 (13.59)	3 (1.50)
<i>timcon</i>	15226 (1.01)	15693 (70.98)	2 (1.00)
<i>epitg</i>	15147 (1.01)	39573 (28.15)	2 (1.00)
<i>tger</i>	15058 (1.01)	30970 (35.97)	2 (1.00)
<i>targf</i>	14403 (1.05)	181421 (6.14)	4 (2.00)
<i>ticcon</i>	14402 (1.00)	260 (4284.22)	2 (1.00)
<i>dtgttp</i>	14401 (1.00)	754 (1477.32)	2 (1.00)
<i>rtdif</i>	14094 (1.02)	15226 (73.16)	2 (1.00)
<i>epimax</i>	13314 (1.06)	78456 (14.20)	2 (1.00)
<i>drp</i>	12995 (1.02)	19054 (58.46)	2 (1.00)
<i>phivtx1</i>	10399 (1.25)	257571 (4.32)	4 (2.00)
<i>eidcon</i>	10130 (1.03)	51501 (21.63)	2 (1.00)
<i>opsveto</i>	8469 (1.20)	365884 (3.04)	3 (1.50)
<i>kic</i>	7798 (1.09)	184974 (6.02)	2 (1.00)
<i>tggeo</i>	6883 (1.13)	458436 (2.43)	2 (1.00)
<i>tdedge</i>	6563 (1.05)	113066 (9.85)	2 (1.00)
<i>tgzfool</i>	6546 (1.00)	22511 (49.48)	2 (1.00)
<i>upvtrs</i>	6056 (1.08)	36694 (30.36)	2 (1.00)
<i>rvtrs</i>	6010 (1.01)	21969 (50.70)	2 (1.00)
<i>tgtcon</i>	5849 (1.03)	94983 (11.73)	6 (3.00)
<i>b4etcon</i>	5662 (1.03)	28832 (38.63)	2 (1.00)
<i>piflg</i>	5648 (1.00)	62346 (17.87)	2 (1.00)
<i>ev502</i>	4581 (1.23)	350552 (3.18)	2 (1.00)
<i>elveto</i>	4161 (1.10)	378796 (2.94)	2 (1.00)
<i>tdfool</i>	4145 (1.00)	299065 (3.72)	2 (1.00)
<i>tdvarnn02</i>	3424 (1.21)	539826 (2.06)	2 (1.00)
TD	3424 (1.00)	736691 (1.51)	2 (1.00)
<i>DEL(0.)</i>	2 (1712.00)	663499 (1.68)	3424 (1712.00)
Total Rej.	1712.00		

Table 8: 1-Beam Rejection. Branch no. 3

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>b4abm < 1.0</i>	53103 (0.00)	1060794 (1.05)	342 (342.00)
<i>PNN2box</i>	53103 (1.00)	0 (1113897.00)	1 (1.00)
<i>rsdedxmax</i>	53103 (1.00)	0 (1113897.00)	1 (1.00)
<i>rsdedxcl</i>	53103 (1.00)	0 (1113897.00)	1 (1.00)
<i>rslike</i>	53103 (1.00)	0 (1113897.00)	1 (1.00)
<i>rngmom</i>	36907 (1.44)	522563 (2.13)	1 (1.00)
<i>pv(nottg)</i>	24446 (1.51)	559865 (1.99)	3 (3.00)
<i>bwtrs</i>	19714 (1.24)	254673 (4.37)	1 (1.00)
<i>b4trs</i>	16752 (1.18)	250270 (4.45)	1 (1.00)
<i>b4ccd</i>	16740 (1.00)	18383 (60.59)	1 (1.00)
<i>tgqualt</i>	15359 (1.09)	81985 (13.59)	1 (1.00)
<i>timcon</i>	15226 (1.01)	15693 (70.98)	1 (1.00)
<i>epitg</i>	15147 (1.01)	39573 (28.15)	1 (1.00)
<i>tger</i>	15058 (1.01)	30970 (35.97)	1 (1.00)
<i>targf</i>	14403 (1.05)	181421 (6.14)	1 (1.00)
<i>ticcon</i>	14402 (1.00)	260 (4284.22)	1 (1.00)
<i>dtgttp</i>	14401 (1.00)	754 (1477.32)	1 (1.00)
<i>rtdif</i>	14094 (1.02)	15226 (73.16)	1 (1.00)
<i>epimax</i>	13314 (1.06)	78456 (14.20)	1 (1.00)
<i>drp</i>	12995 (1.02)	19054 (58.46)	1 (1.00)
<i>phivtx1</i>	10399 (1.25)	257571 (4.32)	1 (1.00)
<i>eidcon</i>	10130 (1.03)	51501 (21.63)	1 (1.00)
<i>opsveto</i>	8469 (1.20)	365884 (3.04)	2 (2.00)
<i>kic</i>	7798 (1.09)	184974 (6.02)	1 (1.00)
<i>tggeo</i>	6883 (1.13)	458436 (2.43)	1 (1.00)
<i>tdedge</i>	6563 (1.05)	113066 (9.85)	1 (1.00)
<i>tgzfool</i>	6546 (1.00)	22511 (49.48)	1 (1.00)
<i>upvtrs</i>	6056 (1.08)	36694 (30.36)	1 (1.00)
<i>rvtrs</i>	6010 (1.01)	21969 (50.70)	1 (1.00)
<i>tgtcon</i>	5849 (1.03)	94983 (11.73)	2 (2.00)
<i>b4etcon</i>	5662 (1.03)	28832 (38.63)	1 (1.00)
<i>pi_flg</i>	5648 (1.00)	62346 (17.87)	1 (1.00)
<i>ev502</i>	4581 (1.23)	350552 (3.18)	1 (1.00)
<i>elveto</i>	4161 (1.10)	378796 (2.94)	1 (1.00)
<i>tdfool</i>	4145 (1.00)	299065 (3.72)	1 (1.00)
<i>tdvarnn02</i>	3424 (1.21)	539826 (2.06)	1 (1.00)
TD	3424 (1.00)	736691 (1.51)	1 (1.00)
<i>PNN2box</i>	3424 (1.00)	0 (1113897.00)	1 (1.00)
<i>icodel14</i>	3424 (1.00)	7 (159128.00)	1 (1.00)
<i>cos3d</i>	3289 (1.04)	81453 (13.68)	1 (1.00)
<i>layv4</i>	3289 (1.00)	0 (1113897.00)	1 (1.00)
<i>zfrf</i>	3289 (1.00)	1397 (797.35)	1 (1.00)
<i>zutout</i>	3289 (1.00)	861 (1293.72)	1 (1.00)
FIDUCIAL	3289 (1.00)	83217 (13.39)	1 (1.00)
<i>utcqual</i>	2890 (1.14)	232918 (4.78)	1 (1.00)
<i>rsdedxcl</i>	2890 (1.00)	0 (1113897.00)	1 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>rsdedxmax</i>	2890 (1.00)	0 (1113897.00)	1 (1.00)
<i>rslike</i>	2890 (1.00)	0 (1113897.00)	1 (1.00)
<i>rngmom</i>	2890 (1.00)	522563 (2.13)	1 (1.00)
<i>prrf1</i>	2808 (1.03)	36162 (30.80)	1 (1.00)
<i>prrfz</i>	2695 (1.04)	70853 (15.72)	1 (1.00)
PRRF	2695 (1.00)	103177 (10.80)	1 (1.00)
<i>rtghi</i>	2693 (1.00)	4247 (262.28)	1 (1.00)
<i>etghi</i>	2658 (1.01)	29993 (37.14)	1 (1.00)
<i>tgdedx1</i>	2376 (1.12)	206651 (5.39)	1 (1.00)
<i>tgdedx2</i>	2287 (1.04)	90942 (12.25)	1 (1.00)
tgdedx	2287 (1.00)	315546 (3.53)	1 (1.00)
<i>tglike1</i>	2187 (1.05)	167394 (6.65)	1 (1.00)
<i>tglike2</i>	2063 (1.06)	146392 (7.61)	1 (1.00)
TGLIKE	2063 (1.00)	223297 (4.99)	1 (1.00)
<i>tgdb4</i>	1979 (1.04)	94551 (11.78)	1 (1.00)
<i>tgdb4tip</i>	1800 (1.10)	234014 (4.76)	1 (1.00)
<i>tgdvxtip</i>	1676 (1.07)	110472 (10.08)	1 (1.00)
<i>tgdvxpi</i>	1483 (1.13)	114742 (9.71)	1 (1.00)
TGB4	1483 (1.00)	354715 (3.14)	1 (1.00)
<i>pigap</i>	1402 (1.06)	105981 (10.51)	1 (1.00)
KIN	1402 (1.00)	973538 (1.14)	1 (1.00)
<i>DEL(0.)</i>	1 (1402.00)	663499 (1.68)	1402 (1402.00)
Total Rej.	1402.00		

Table 9: 1-Beam Normalization. Branch no. 1

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	1 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	1 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	1 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	1 (1.00)
<i>rngmom</i>	591334 (1.88)	522563 (2.13)	1 (1.00)
<i>PNN2box</i>	591334 (1.00)	0 (1113897.00)	1 (1.00)
<i>icodel14</i>	591334 (1.00)	7 (159128.00)	1 (1.00)
<i>cos3d</i>	530602 (1.11)	81453 (13.68)	1 (1.00)
<i>layv4</i>	530602 (1.00)	0 (1113897.00)	1 (1.00)
<i>zfrf</i>	530249 (1.00)	1397 (797.35)	1 (1.00)
<i>zutout</i>	529911 (1.00)	861 (1293.72)	1 (1.00)
FIDUCIAL	529911 (1.00)	83217 (13.39)	1 (1.00)
<i>utcqual</i>	434133 (1.22)	232918 (4.78)	1 (1.00)
<i>rsdedxcl</i>	434133 (1.00)	0 (1113897.00)	1 (1.00)
<i>rsdedxmax</i>	434133 (1.00)	0 (1113897.00)	1 (1.00)
<i>rslike</i>	434133 (1.00)	0 (1113897.00)	1 (1.00)
<i>tgktim</i>	434133 (1.00)	0 (1113897.00)	1 (1.00)
<i>rngmom</i>	434133 (1.00)	522563 (2.13)	1 (1.00)
<i>prrf1</i>	424551 (1.02)	36162 (30.80)	1 (1.00)
<i>prrfz</i>	401496 (1.06)	70853 (15.72)	1 (1.00)
PRRF	401496 (1.00)	103177 (10.80)	1 (1.00)
<i>rtghi</i>	400968 (1.00)	4247 (262.28)	1 (1.00)
<i>etghi</i>	392267 (1.02)	29993 (37.14)	1 (1.00)
<i>tgdedx1</i>	280053 (1.40)	206651 (5.39)	1 (1.00)
<i>tgdedx2</i>	253445 (1.10)	90942 (12.25)	1 (1.00)
tgdedx	253445 (1.00)	315546 (3.53)	1 (1.00)
<i>tglike1</i>	226653 (1.12)	167394 (6.65)	1 (1.00)
<i>tglike2</i>	214611 (1.06)	146392 (7.61)	1 (1.00)
TGLIKE	214611 (1.00)	223297 (4.99)	1 (1.00)
<i>tgdb4</i>	194025 (1.11)	94551 (11.78)	1 (1.00)
<i>tgdb4tip</i>	169018 (1.15)	234014 (4.76)	1 (1.00)
<i>tgdvxtip</i>	156959 (1.08)	110472 (10.08)	1 (1.00)
<i>tgdvxpi</i>	147727 (1.06)	114742 (9.71)	1 (1.00)
TGB4	147727 (1.00)	354715 (3.14)	1 (1.00)
<i>pigap</i>	140359 (1.05)	105981 (10.51)	1 (1.00)
KIN	140359 (1.00)	973538 (1.14)	1 (1.00)
<i>tgpv</i>	83509 (1.68)	421966 (2.64)	1 (1.00)
<i>bwtrs</i>	76468 (1.09)	254673 (4.37)	1 (1.00)
<i>b4trs</i>	70354 (1.09)	250270 (4.45)	1 (1.00)
<i>b4ccd</i>	69406 (1.01)	18383 (60.59)	1 (1.00)
<i>tgqualt</i>	62527 (1.11)	81985 (13.59)	1 (1.00)
<i>timcon</i>	61793 (1.01)	15693 (70.98)	1 (1.00)
<i>epitg</i>	61647 (1.00)	39573 (28.15)	1 (1.00)
<i>tger</i>	61623 (1.00)	30970 (35.97)	1 (1.00)
<i>targf</i>	58128 (1.06)	181421 (6.14)	1 (1.00)
<i>ticcon</i>	58128 (1.00)	260 (4284.22)	1 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>dtgttp</i>	58128 (1.00)	754 (1477.32)	1 (1.00)
<i>rtdif</i>	57267 (1.02)	15226 (73.16)	1 (1.00)
<i>epimax</i>	56058 (1.02)	78456 (14.20)	1 (1.00)
<i>drp</i>	55637 (1.01)	19054 (58.46)	1 (1.00)
<i>phivtx1</i>	46970 (1.18)	257571 (4.32)	1 (1.00)
<i>ecccon</i>	45870 (1.02)	51501 (21.63)	1 (1.00)
<i>opsveto</i>	39379 (1.16)	365884 (3.04)	1 (1.00)
<i>kic</i>	37256 (1.06)	184974 (6.02)	1 (1.00)
<i>tggeo</i>	30311 (1.23)	458436 (2.43)	1 (1.00)
<i>tdedge</i>	29759 (1.02)	113066 (9.85)	1 (1.00)
<i>tgzfool</i>	29753 (1.00)	22511 (49.48)	1 (1.00)
<i>upvtrs</i>	28859 (1.03)	36694 (30.36)	1 (1.00)
<i>rvtrs</i>	28742 (1.00)	21969 (50.70)	1 (1.00)
<i>tgtcon</i>	22790 (1.26)	94983 (11.73)	2 (2.00)
<i>b4etcon</i>	22502 (1.01)	28832 (38.63)	1 (1.00)
<i>b4ekz</i>	13970 (1.61)	632174 (1.76)	1 (1.00)
<i>b4ekzic</i>	13970 (1.00)	103452 (10.77)	1 (1.00)
<i>b4tim</i>	11233 (1.24)	395156 (2.82)	3 (3.00)
<i>tgktim</i>	11233 (1.00)	0 (1113897.00)	1 (1.00)
<i>tgenr</i>	11107 (1.01)	139955 (7.96)	1 (1.00)
<i>chi567</i>	7042 (1.58)	755392 (1.47)	1 (1.00)
<i>npitg</i>	7042 (1.00)	81985 (13.59)	1 (1.00)
<i>verrng</i>	6044 (1.17)	472223 (2.36)	1 (1.00)
<i>chi5max</i>	5851 (1.03)	336487 (3.31)	1 (1.00)
<i>angli</i>	5837 (1.00)	80179 (13.89)	1 (1.00)
<i>ALLK fit</i>	4921 (1.19)	319627 (3.48)	1 (1.00)
<i>tpics</i>	4503 (1.09)	152185 (7.32)	1 (1.00)
<i>epionk</i>	4418 (1.02)	46643 (23.88)	1 (1.00)
<i>ccd pul</i>	2107 (2.10)	302622 (3.68)	1 (1.00)
<i>timkf</i>	1430 (1.47)	684242 (1.63)	5 (5.00)
DELC(0.)	541 (2.64)	450398 (2.47)	20 (20.00)
<i>cpitrs</i>	540 (1.00)	21624 (51.51)	1 (1.00)
<i>cpitail</i>	540 (1.00)	2399 (464.32)	1 (1.00)
<i>b4dedx</i>	535 (1.01)	74137 (15.02)	1 (1.00)
<i>cktrs</i>	228 (2.35)	626927 (1.78)	15 (15.00)
<i>cktail</i>	169 (1.35)	354519 (3.14)	2 (2.00)
<i>PV</i>	4 (42.25)	735089 (1.52)	97 (97.00)
<i>pi flg</i>	4 (1.00)	62346 (17.87)	1 (1.00)
<i>ev502</i>	2 (2.00)	350552 (3.18)	1 (1.00)
<i>elveto</i>	2 (1.00)	378796 (2.94)	1 (1.00)
<i>tdfool</i>	2 (1.00)	299065 (3.72)	1 (1.00)
<i>tdvarnn02</i>	1 (2.00)	539826 (2.06)	1 (1.00)
TD	1 (1.00)	736691 (1.51)	1 (1.00)
Total Rej.	541.00		

Table 10: 1-Beam Normalization. Branch no. 2

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	49 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	49 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	49 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	49 (1.00)
<i>rngmom</i>	591334 (1.88)	522563 (2.13)	49 (1.00)
<i>PNN2box</i>	591334 (1.00)	0 (1113897.00)	49 (1.00)
<i>icodel14</i>	591334 (1.00)	7 (159128.00)	49 (1.00)
<i>cos3d</i>	530602 (1.11)	81453 (13.68)	49 (1.00)
<i>layv4</i>	530602 (1.00)	0 (1113897.00)	49 (1.00)
<i>zfrf</i>	530249 (1.00)	1397 (797.35)	49 (1.00)
<i>zutout</i>	529911 (1.00)	861 (1293.72)	49 (1.00)
FIDUCIAL	529911 (1.00)	83217 (13.39)	49 (1.00)
<i>utcqual</i>	434133 (1.22)	232918 (4.78)	49 (1.00)
<i>rsdedxcl</i>	434133 (1.00)	0 (1113897.00)	49 (1.00)
<i>rsdedxmax</i>	434133 (1.00)	0 (1113897.00)	49 (1.00)
<i>rslike</i>	434133 (1.00)	0 (1113897.00)	49 (1.00)
<i>tgktim</i>	434133 (1.00)	0 (1113897.00)	49 (1.00)
<i>rngmom</i>	434133 (1.00)	522563 (2.13)	49 (1.00)
<i>prrf1</i>	424551 (1.02)	36162 (30.80)	49 (1.00)
<i>prrfz</i>	401496 (1.06)	70853 (15.72)	49 (1.00)
PRRF	401496 (1.00)	103177 (10.80)	49 (1.00)
<i>rtghi</i>	400968 (1.00)	4247 (262.28)	49 (1.00)
<i>etghi</i>	392267 (1.02)	29993 (37.14)	49 (1.00)
<i>tgdedx1</i>	280053 (1.40)	206651 (5.39)	49 (1.00)
<i>tgdedx2</i>	253445 (1.10)	90942 (12.25)	49 (1.00)
tgdedx	253445 (1.00)	315546 (3.53)	49 (1.00)
<i>tglike1</i>	226653 (1.12)	167394 (6.65)	49 (1.00)
<i>tglike2</i>	214611 (1.06)	146392 (7.61)	49 (1.00)
TGLIKE	214611 (1.00)	223297 (4.99)	49 (1.00)
<i>tgdb4</i>	194025 (1.11)	94551 (11.78)	49 (1.00)
<i>tgdb4tip</i>	169018 (1.15)	234014 (4.76)	49 (1.00)
<i>tgdvxtip</i>	156959 (1.08)	110472 (10.08)	49 (1.00)
<i>tgdvxpi</i>	147727 (1.06)	114742 (9.71)	49 (1.00)
TGB4	147727 (1.00)	354715 (3.14)	49 (1.00)
<i>pigap</i>	140359 (1.05)	105981 (10.51)	49 (1.00)
KIN	140359 (1.00)	973538 (1.14)	49 (1.00)
<i>tgpv</i>	83509 (1.68)	421966 (2.64)	49 (1.00)
<i>bwtrs</i>	76468 (1.09)	254673 (4.37)	56 (1.14)
<i>b4trs</i>	70354 (1.09)	250270 (4.45)	52 (1.06)
<i>b4ccd</i>	69406 (1.01)	18383 (60.59)	49 (1.00)
<i>tgqualt</i>	62527 (1.11)	81985 (13.59)	49 (1.00)
<i>timcon</i>	61793 (1.01)	15693 (70.98)	49 (1.00)
<i>epitg</i>	61647 (1.00)	39573 (28.15)	49 (1.00)
<i>tger</i>	61623 (1.00)	30970 (35.97)	49 (1.00)
<i>targf</i>	58128 (1.06)	181421 (6.14)	49 (1.00)
<i>ticcon</i>	58128 (1.00)	260 (4284.22)	49 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>dtgttp</i>	58128 (1.00)	754 (1477.32)	49 (1.00)
<i>rtdif</i>	57267 (1.02)	15226 (73.16)	50 (1.02)
<i>epimax</i>	56058 (1.02)	78456 (14.20)	49 (1.00)
<i>drp</i>	55637 (1.01)	19054 (58.46)	49 (1.00)
<i>phivtx1</i>	46970 (1.18)	257571 (4.32)	50 (1.02)
<i>ecccon</i>	45870 (1.02)	51501 (21.63)	51 (1.04)
<i>opsveto</i>	39379 (1.16)	365884 (3.04)	70 (1.43)
<i>kic</i>	37256 (1.06)	184974 (6.02)	50 (1.02)
<i>tggeo</i>	30311 (1.23)	458436 (2.43)	58 (1.18)
<i>tdedge</i>	29759 (1.02)	113066 (9.85)	49 (1.00)
<i>tgzfool</i>	29753 (1.00)	22511 (49.48)	49 (1.00)
<i>upvtrs</i>	28859 (1.03)	36694 (30.36)	52 (1.06)
<i>rvtrs</i>	28742 (1.00)	21969 (50.70)	49 (1.00)
<i>tgtcon</i>	22790 (1.26)	94983 (11.73)	49 (1.00)
<i>b4etcon</i>	22502 (1.01)	28832 (38.63)	49 (1.00)
<i>b4ekz</i>	13970 (1.61)	632174 (1.76)	89 (1.82)
<i>b4ekzic</i>	13970 (1.00)	103452 (10.77)	49 (1.00)
<i>b4tim</i>	11233 (1.24)	395156 (2.82)	51 (1.04)
<i>tgktim</i>	11233 (1.00)	0 (1113897.00)	49 (1.00)
<i>tgenr</i>	11107 (1.01)	139955 (7.96)	49 (1.00)
<i>chi567</i>	7042 (1.58)	755392 (1.47)	66 (1.35)
<i>npitg</i>	7042 (1.00)	81985 (13.59)	49 (1.00)
<i>verrng</i>	6044 (1.17)	472223 (2.36)	65 (1.33)
<i>chi5max</i>	5851 (1.03)	336487 (3.31)	51 (1.04)
<i>angli</i>	5837 (1.00)	80179 (13.89)	49 (1.00)
<i>ALLKfit</i>	4921 (1.19)	319627 (3.48)	123 (2.51)
<i>tpics</i>	4503 (1.09)	152185 (7.32)	55 (1.12)
<i>epionk</i>	4418 (1.02)	46643 (23.88)	49 (1.00)
<i>ccdpu</i>	2107 (2.10)	302622 (3.68)	63 (1.29)
<i>timkf</i>	1430 (1.47)	684242 (1.63)	69 (1.41)
<i>DELIC(0.)</i>	541 (2.64)	450398 (2.47)	50 (1.02)
<i>cpitrs</i>	540 (1.00)	21624 (51.51)	49 (1.00)
<i>cpitail</i>	540 (1.00)	2399 (464.32)	49 (1.00)
<i>b4dedx</i>	535 (1.01)	74137 (15.02)	51 (1.04)
<i>cktrs · cktail</i>	366 (1.46)	434714 (2.56)	50 (1.02)
<i>PV</i>	83 (4.41)	735089 (1.52)	215 (4.39)
<i>pi_flg</i>	83 (1.00)	62346 (17.87)	49 (1.00)
<i>ev502</i>	63 (1.32)	350552 (3.18)	49 (1.00)
<i>elveto</i>	58 (1.09)	378796 (2.94)	49 (1.00)
<i>tdfool</i>	58 (1.00)	299065 (3.72)	49 (1.00)
<i>tdvarnn02</i>	49 (1.18)	539826 (2.06)	49 (1.00)
TD	49 (1.00)	736691 (1.51)	49 (1.00)
Total Rej.	7.47		

Table 11: 1-Beam Normalization. Branch no. 3

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	168 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	168 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	168 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	168 (1.00)
<i>rngmom</i>	591334 (1.88)	522563 (2.13)	168 (1.00)
<i>PNN2box</i>	591334 (1.00)	0 (1113897.00)	168 (1.00)
<i>icodel14</i>	591334 (1.00)	7 (159128.00)	168 (1.00)
<i>cos3d</i>	530602 (1.11)	81453 (13.68)	168 (1.00)
<i>layv4</i>	530602 (1.00)	0 (1113897.00)	168 (1.00)
<i>zfrf</i>	530249 (1.00)	1397 (797.35)	168 (1.00)
<i>zutout</i>	529911 (1.00)	861 (1293.72)	168 (1.00)
FIDUCIAL	529911 (1.00)	83217 (13.39)	168 (1.00)
<i>utcqual</i>	434133 (1.22)	232918 (4.78)	168 (1.00)
<i>rsdedxcl</i>	434133 (1.00)	0 (1113897.00)	168 (1.00)
<i>rsdedxmax</i>	434133 (1.00)	0 (1113897.00)	168 (1.00)
<i>rslike</i>	434133 (1.00)	0 (1113897.00)	168 (1.00)
<i>tgktim</i>	434133 (1.00)	0 (1113897.00)	168 (1.00)
<i>rngmom</i>	434133 (1.00)	522563 (2.13)	168 (1.00)
<i>prrf1</i>	424551 (1.02)	36162 (30.80)	168 (1.00)
<i>prrfz</i>	401496 (1.06)	70853 (15.72)	168 (1.00)
PRRF	401496 (1.00)	103177 (10.80)	168 (1.00)
<i>rtghi</i>	400968 (1.00)	4247 (262.28)	168 (1.00)
<i>etghi</i>	392267 (1.02)	29993 (37.14)	168 (1.00)
<i>tgdedx1</i>	280053 (1.40)	206651 (5.39)	168 (1.00)
<i>tgdedx2</i>	253445 (1.10)	90942 (12.25)	168 (1.00)
TGDEDX	253445 (1.00)	315546 (3.53)	168 (1.00)
<i>tglike1</i>	226653 (1.12)	167394 (6.65)	168 (1.00)
<i>tglike2</i>	214611 (1.06)	146392 (7.61)	168 (1.00)
TGLIKE	214611 (1.00)	223297 (4.99)	168 (1.00)
<i>tgdb4</i>	194025 (1.11)	94551 (11.78)	168 (1.00)
<i>tgdb4tip</i>	169018 (1.15)	234014 (4.76)	168 (1.00)
<i>tgdvxtip</i>	156959 (1.08)	110472 (10.08)	168 (1.00)
<i>tgdvxpi</i>	147727 (1.06)	114742 (9.71)	168 (1.00)
TGB4	147727 (1.00)	354715 (3.14)	168 (1.00)
<i>pigap</i>	140359 (1.05)	105981 (10.51)	168 (1.00)
KIN	140359 (1.00)	973538 (1.14)	168 (1.00)
<i>tgpv</i>	83509 (1.68)	421966 (2.64)	173 (1.03)
<i>bwtrs</i>	76468 (1.09)	254673 (4.37)	172 (1.02)
<i>b4trs</i>	70354 (1.09)	250270 (4.45)	173 (1.03)
<i>b4ccd</i>	69406 (1.01)	18383 (60.59)	170 (1.01)
<i>tgqualt</i>	62527 (1.11)	81985 (13.59)	168 (1.00)
<i>timcon</i>	61793 (1.01)	15693 (70.98)	168 (1.00)
<i>epitg</i>	61647 (1.00)	39573 (28.15)	168 (1.00)
<i>tger</i>	61623 (1.00)	30970 (35.97)	168 (1.00)
<i>targf</i>	58128 (1.06)	181421 (6.14)	169 (1.01)
<i>ticcon</i>	58128 (1.00)	260 (4284.22)	168 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>dtgttp</i>	58128 (1.00)	754 (1477.32)	168 (1.00)
<i>rtdif</i>	57267 (1.02)	15226 (73.16)	170 (1.01)
<i>epimax</i>	56058 (1.02)	78456 (14.20)	169 (1.01)
<i>drp</i>	55637 (1.01)	19054 (58.46)	171 (1.02)
<i>phivtx1</i>	46970 (1.18)	257571 (4.32)	189 (1.12)
<i>ecccon</i>	45870 (1.02)	51501 (21.63)	170 (1.01)
<i>opsveto</i>	39379 (1.16)	365884 (3.04)	178 (1.06)
<i>kic</i>	37256 (1.06)	184974 (6.02)	168 (1.00)
<i>tggeo</i>	30311 (1.23)	458436 (2.43)	196 (1.17)
<i>tdedge</i>	29759 (1.02)	113066 (9.85)	171 (1.02)
<i>tgzfool</i>	29753 (1.00)	22511 (49.48)	168 (1.00)
<i>upvtrs</i>	28859 (1.03)	36694 (30.36)	174 (1.04)
<i>rvtrs</i>	28742 (1.00)	21969 (50.70)	168 (1.00)
<i>tgtcon</i>	22790 (1.26)	94983 (11.73)	169 (1.01)
<i>b4etcon</i>	22502 (1.01)	28832 (38.63)	168 (1.00)
<i>b4ekz</i>	13970 (1.61)	632174 (1.76)	176 (1.05)
<i>b4ekzic</i>	13970 (1.00)	103452 (10.77)	168 (1.00)
<i>b4tim</i>	11233 (1.24)	395156 (2.82)	168 (1.00)
<i>tgktim</i>	11233 (1.00)	0 (1113897.00)	168 (1.00)
<i>tgenr</i>	11107 (1.01)	139955 (7.96)	170 (1.01)
<i>chi567</i>	7042 (1.58)	755392 (1.47)	224 (1.33)
<i>npitg</i>	7042 (1.00)	81985 (13.59)	168 (1.00)
<i>verrng</i>	6044 (1.17)	472223 (2.36)	186 (1.11)
<i>chi5max</i>	5851 (1.03)	336487 (3.31)	170 (1.01)
<i>angli</i>	5837 (1.00)	80179 (13.89)	168 (1.00)
<i>ALLK fit</i>	4921 (1.19)	319627 (3.48)	184 (1.10)
<i>tpics</i>	4503 (1.09)	152185 (7.32)	183 (1.09)
<i>epionk</i>	4418 (1.02)	46643 (23.88)	168 (1.00)
<i>ccd pul</i>	2107 (2.10)	302622 (3.68)	218 (1.30)
<i>timkf</i>	1430 (1.47)	684242 (1.63)	405 (2.41)
<i>DELC(0.)</i>	541 (2.64)	450398 (2.47)	989 (5.89)
<i>cpitrs</i>	540 (1.00)	21624 (51.51)	168 (1.00)
<i>cpitail</i>	540 (1.00)	2399 (464.32)	168 (1.00)
<i>b4dedx</i>	535 (1.01)	74137 (15.02)	169 (1.01)
<i>PV · TD</i>	485 (1.10)	68884 (16.17)	169 (1.01)
<i>cktrs</i>	226 (2.15)	626927 (1.78)	240 (1.43)
<i>cktail</i>	168 (1.35)	354519 (3.14)	226 (1.35)
Total Rej.	2.89		

Table 12: 1-Beam Normalization. Branch no. 4

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	0 (0.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	0 (0.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	0 (0.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	0 (0.00)
<i>rngmom</i>	591334 (1.88)	522563 (2.13)	0 (0.00)
<i>PNN2box</i>	591334 (1.00)	0 (1113897.00)	0 (0.00)
<i>icodel14</i>	591334 (1.00)	7 (159128.00)	0 (0.00)
<i>cos3d</i>	530602 (1.11)	81453 (13.68)	0 (0.00)
<i>layv4</i>	530602 (1.00)	0 (1113897.00)	0 (0.00)
<i>zfrf</i>	530249 (1.00)	1397 (797.35)	0 (0.00)
<i>zutout</i>	529911 (1.00)	861 (1293.72)	0 (0.00)
FIDUCIAL	529911 (1.00)	83217 (13.39)	0 (0.00)
<i>utcqual</i>	434133 (1.22)	232918 (4.78)	0 (0.00)
<i>rsdedxcl</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>rsdedxmax</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>rslike</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>tgktim</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>rngmom</i>	434133 (1.00)	522563 (2.13)	0 (0.00)
<i>prrf1</i>	424551 (1.02)	36162 (30.80)	0 (0.00)
<i>prrfz</i>	401496 (1.06)	70853 (15.72)	0 (0.00)
PRRF	401496 (1.00)	103177 (10.80)	0 (0.00)
<i>rtghi</i>	400968 (1.00)	4247 (262.28)	0 (0.00)
<i>etghi</i>	392267 (1.02)	29993 (37.14)	0 (0.00)
<i>tgdedx1</i>	280053 (1.40)	206651 (5.39)	0 (0.00)
<i>tgdedx2</i>	253445 (1.10)	90942 (12.25)	0 (0.00)
tgdedx	253445 (1.00)	315546 (3.53)	0 (0.00)
<i>tglike1</i>	226653 (1.12)	167394 (6.65)	0 (0.00)
<i>tglike2</i>	214611 (1.06)	146392 (7.61)	0 (0.00)
TGLIKE	214611 (1.00)	223297 (4.99)	0 (0.00)
<i>tgdb4</i>	194025 (1.11)	94551 (11.78)	0 (0.00)
<i>tgdb4tip</i>	169018 (1.15)	234014 (4.76)	0 (0.00)
<i>tgdvxtip</i>	156959 (1.08)	110472 (10.08)	0 (0.00)
<i>tgdvxpi</i>	147727 (1.06)	114742 (9.71)	0 (0.00)
TGB4	147727 (1.00)	354715 (3.14)	0 (0.00)
<i>pigap</i>	140359 (1.05)	105981 (10.51)	0 (0.00)
KIN	140359 (1.00)	973538 (1.14)	0 (0.00)
<i>tgpv</i>	83509 (1.68)	421966 (2.64)	0 (0.00)
<i>bwtrs</i>	76468 (1.09)	254673 (4.37)	0 (0.00)
<i>b4trs</i>	70354 (1.09)	250270 (4.45)	0 (0.00)
<i>b4ccd</i>	69406 (1.01)	18383 (60.59)	0 (0.00)
<i>tgqualt</i>	62527 (1.11)	81985 (13.59)	0 (0.00)
<i>timcon</i>	61793 (1.01)	15693 (70.98)	0 (0.00)
<i>epitg</i>	61647 (1.00)	39573 (28.15)	0 (0.00)
<i>tger</i>	61623 (1.00)	30970 (35.97)	0 (0.00)
<i>targf</i>	58128 (1.06)	181421 (6.14)	0 (0.00)
<i>ticcon</i>	58128 (1.00)	260 (4284.22)	0 (0.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>dtgttp</i>	58128 (1.00)	754 (1477.32)	0 (0.00)
<i>rtdif</i>	57267 (1.02)	15226 (73.16)	0 (0.00)
<i>epimax</i>	56058 (1.02)	78456 (14.20)	0 (0.00)
<i>drp</i>	55637 (1.01)	19054 (58.46)	0 (0.00)
<i>phivtx1</i>	46970 (1.18)	257571 (4.32)	0 (0.00)
<i>ecccon</i>	45870 (1.02)	51501 (21.63)	0 (0.00)
<i>opsveto</i>	39379 (1.16)	365884 (3.04)	0 (0.00)
<i>kic</i>	37256 (1.06)	184974 (6.02)	0 (0.00)
<i>tggeo</i>	30311 (1.23)	458436 (2.43)	0 (0.00)
<i>tdedge</i>	29759 (1.02)	113066 (9.85)	0 (0.00)
<i>tgzfool</i>	29753 (1.00)	22511 (49.48)	0 (0.00)
<i>upvtrs</i>	28859 (1.03)	36694 (30.36)	0 (0.00)
<i>rvtrs</i>	28742 (1.00)	21969 (50.70)	0 (0.00)
<i>tgtcon</i>	22790 (1.26)	94983 (11.73)	0 (0.00)
<i>b4etcon</i>	22502 (1.01)	28832 (38.63)	0 (0.00)
<i>b4ekz</i>	13970 (1.61)	632174 (1.76)	0 (0.00)
<i>b4ekzic</i>	13970 (1.00)	103452 (10.77)	0 (0.00)
<i>b4tim</i>	11233 (1.24)	395156 (2.82)	0 (0.00)
<i>tgktim</i>	11233 (1.00)	0 (1113897.00)	0 (0.00)
<i>tgenr</i>	11107 (1.01)	139955 (7.96)	0 (0.00)
<i>chi567</i>	7042 (1.58)	755392 (1.47)	0 (0.00)
<i>npitg</i>	7042 (1.00)	81985 (13.59)	0 (0.00)
<i>verrng</i>	6044 (1.17)	472223 (2.36)	0 (0.00)
<i>chi5max</i>	5851 (1.03)	336487 (3.31)	0 (0.00)
<i>angli</i>	5837 (1.00)	80179 (13.89)	0 (0.00)
<i>ALLKfit</i>	4921 (1.19)	319627 (3.48)	0 (0.00)
<i>tpics</i>	4503 (1.09)	152185 (7.32)	0 (0.00)
<i>epionk</i>	4418 (1.02)	46643 (23.88)	0 (0.00)
<i>ccd pul</i>	2107 (2.10)	302622 (3.68)	0 (0.00)
<i>timkf</i>	1430 (1.47)	684242 (1.63)	0 (0.00)
<i>DEL C(0.)</i>	541 (2.64)	450398 (2.47)	0 (0.00)
<i>cktrs</i>	230 (2.35)	626927 (1.78)	0 (0.00)
<i>cktail</i>	170 (1.35)	354519 (3.14)	0 (0.00)
<i>pv(nottg)</i>	4 (42.50)	559865 (1.99)	0 (0.00)
<i>pi flg</i>	4 (1.00)	62346 (17.87)	0 (0.00)
<i>ev502</i>	2 (2.00)	350552 (3.18)	0 (0.00)
<i>elveto</i>	2 (1.00)	378796 (2.94)	0 (0.00)
<i>tdfool</i>	2 (1.00)	299065 (3.72)	0 (0.00)
<i>tdvarnn02</i>	1 (2.00)	539826 (2.06)	0 (0.00)
TD	1 (1.00)	736691 (1.51)	0 (0.00)
<i>cpitrs · cpitail</i>	0 (1.00)	1091791 (1.02)	1 (1.00)
<i>b4dedx</i>	0 (0.00)	74137 (15.02)	0 (0.00)
Total Rej.		0.00	

Table 13: 1-Beam Normalization. Branch no. 5

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	0 (0.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	0 (0.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	0 (0.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	0 (0.00)
<i>rngmom</i>	591334 (1.88)	522563 (2.13)	0 (0.00)
<i>PNN2box</i>	591334 (1.00)	0 (1113897.00)	0 (0.00)
<i>icodel14</i>	591334 (1.00)	7 (159128.00)	0 (0.00)
<i>cos3d</i>	530602 (1.11)	81453 (13.68)	0 (0.00)
<i>layv4</i>	530602 (1.00)	0 (1113897.00)	0 (0.00)
<i>zfrf</i>	530249 (1.00)	1397 (797.35)	0 (0.00)
<i>zutout</i>	529911 (1.00)	861 (1293.72)	0 (0.00)
FIDUCIAL	529911 (1.00)	83217 (13.39)	0 (0.00)
<i>utcqual</i>	434133 (1.22)	232918 (4.78)	0 (0.00)
<i>rsdedxcl</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>rsdedxmax</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>rslike</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>tgktim</i>	434133 (1.00)	0 (1113897.00)	0 (0.00)
<i>rngmom</i>	434133 (1.00)	522563 (2.13)	0 (0.00)
<i>prrf1</i>	424551 (1.02)	36162 (30.80)	0 (0.00)
<i>prrfz</i>	401496 (1.06)	70853 (15.72)	0 (0.00)
PRRF	401496 (1.00)	103177 (10.80)	0 (0.00)
<i>rtghi</i>	400968 (1.00)	4247 (262.28)	0 (0.00)
<i>etghi</i>	392267 (1.02)	29993 (37.14)	0 (0.00)
<i>tgdedx1</i>	280053 (1.40)	206651 (5.39)	0 (0.00)
<i>tgdedx2</i>	253445 (1.10)	90942 (12.25)	0 (0.00)
tgdedx	253445 (1.00)	315546 (3.53)	0 (0.00)
<i>tglike1</i>	226653 (1.12)	167394 (6.65)	0 (0.00)
<i>tglike2</i>	214611 (1.06)	146392 (7.61)	0 (0.00)
TGLIKE	214611 (1.00)	223297 (4.99)	0 (0.00)
<i>tgdb4</i>	194025 (1.11)	94551 (11.78)	0 (0.00)
<i>tgdb4tip</i>	169018 (1.15)	234014 (4.76)	0 (0.00)
<i>tgdvxtip</i>	156959 (1.08)	110472 (10.08)	0 (0.00)
<i>tgdvxpi</i>	147727 (1.06)	114742 (9.71)	0 (0.00)
TGB4	147727 (1.00)	354715 (3.14)	0 (0.00)
<i>pigap</i>	140359 (1.05)	105981 (10.51)	0 (0.00)
KIN	140359 (1.00)	973538 (1.14)	0 (0.00)
<i>tgpv</i>	83509 (1.68)	421966 (2.64)	0 (0.00)
<i>bwtrs</i>	76468 (1.09)	254673 (4.37)	0 (0.00)
<i>b4trs</i>	70354 (1.09)	250270 (4.45)	0 (0.00)
<i>b4ccd</i>	69406 (1.01)	18383 (60.59)	0 (0.00)
<i>tgqualt</i>	62527 (1.11)	81985 (13.59)	0 (0.00)
<i>timcon</i>	61793 (1.01)	15693 (70.98)	0 (0.00)
<i>epitg</i>	61647 (1.00)	39573 (28.15)	0 (0.00)
<i>tger</i>	61623 (1.00)	30970 (35.97)	0 (0.00)
<i>targf</i>	58128 (1.06)	181421 (6.14)	0 (0.00)
<i>ticcon</i>	58128 (1.00)	260 (4284.22)	0 (0.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>dtgttp</i>	58128 (1.00)	754 (1477.32)	0 (0.00)
<i>rtdif</i>	57267 (1.02)	15226 (73.16)	0 (0.00)
<i>epimax</i>	56058 (1.02)	78456 (14.20)	0 (0.00)
<i>drp</i>	55637 (1.01)	19054 (58.46)	0 (0.00)
<i>phivtx1</i>	46970 (1.18)	257571 (4.32)	0 (0.00)
<i>ecccon</i>	45870 (1.02)	51501 (21.63)	0 (0.00)
<i>opsveto</i>	39379 (1.16)	365884 (3.04)	0 (0.00)
<i>kic</i>	37256 (1.06)	184974 (6.02)	0 (0.00)
<i>tggeo</i>	30311 (1.23)	458436 (2.43)	0 (0.00)
<i>tdedge</i>	29759 (1.02)	113066 (9.85)	0 (0.00)
<i>tgzfool</i>	29753 (1.00)	22511 (49.48)	0 (0.00)
<i>upvtrs</i>	28859 (1.03)	36694 (30.36)	0 (0.00)
<i>rvtrs</i>	28742 (1.00)	21969 (50.70)	0 (0.00)
<i>tgtcon</i>	22790 (1.26)	94983 (11.73)	0 (0.00)
<i>b4etcon</i>	22502 (1.01)	28832 (38.63)	0 (0.00)
<i>b4ekz</i>	13970 (1.61)	632174 (1.76)	0 (0.00)
<i>b4ekzic</i>	13970 (1.00)	103452 (10.77)	0 (0.00)
<i>b4tim</i>	11233 (1.24)	395156 (2.82)	0 (0.00)
<i>tgktim</i>	11233 (1.00)	0 (1113897.00)	0 (0.00)
<i>tgenr</i>	11107 (1.01)	139955 (7.96)	0 (0.00)
<i>chi567</i>	7042 (1.58)	755392 (1.47)	0 (0.00)
<i>npitg</i>	7042 (1.00)	81985 (13.59)	0 (0.00)
<i>verrng</i>	6044 (1.17)	472223 (2.36)	0 (0.00)
<i>chi5max</i>	5851 (1.03)	336487 (3.31)	0 (0.00)
<i>angli</i>	5837 (1.00)	80179 (13.89)	0 (0.00)
<i>ALLK fit</i>	4921 (1.19)	319627 (3.48)	0 (0.00)
<i>tpics</i>	4503 (1.09)	152185 (7.32)	0 (0.00)
<i>epionk</i>	4418 (1.02)	46643 (23.88)	0 (0.00)
<i>ccdpu</i>	2107 (2.10)	302622 (3.68)	0 (0.00)
<i>timkf</i>	1430 (1.47)	684242 (1.63)	0 (0.00)
<i>DEL(0.)</i>	541 (2.64)	450398 (2.47)	0 (0.00)
<i>cktrs</i>	230 (2.35)	626927 (1.78)	0 (0.00)
<i>cktail</i>	170 (1.35)	354519 (3.14)	0 (0.00)
<i>pv(nottg)</i>	4 (42.50)	559865 (1.99)	1 (1.00)
<i>pi_flg</i>	4 (1.00)	62346 (17.87)	0 (0.00)
<i>ev502</i>	2 (2.00)	350552 (3.18)	0 (0.00)
<i>elveto</i>	2 (1.00)	378796 (2.94)	0 (0.00)
<i>tdfool</i>	2 (1.00)	299065 (3.72)	0 (0.00)
<i>tdvarnn02</i>	1 (2.00)	539826 (2.06)	0 (0.00)
TD	1 (1.00)	736691 (1.51)	0 (0.00)
<i>b4dedx</i>	0 (1.00)	1039760 (1.07)	1 (1.00)
<i>cpitrs</i>	0 (0.00)	21624 (51.51)	0 (0.00)
<i>cpitail</i>	0 (0.00)	2399 (464.32)	0 (0.00)
Total Rej.	0.00		

Table 14: 2-Beam Rejection. Branch no. 1

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	166 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	166 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	166 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	166 (1.00)
<i>rngmom</i>	591334 (1.88)	522563 (2.13)	172 (1.04)
<i>pv(nottg)</i>	199549 (2.96)	559865 (1.99)	1092 (6.58)
<i>pi_flg</i>	198005 (1.01)	62346 (17.87)	166 (1.00)
<i>ev502</i>	161268 (1.23)	350552 (3.18)	166 (1.00)
<i>elveto</i>	146787 (1.10)	378796 (2.94)	166 (1.00)
<i>tdfool</i>	146335 (1.00)	299065 (3.72)	166 (1.00)
<i>tdvarnn02</i>	120160 (1.22)	539826 (2.06)	166 (1.00)
TD	120160 (1.00)	736691 (1.51)	166 (1.00)
<i>b4dedx</i>	101154 (1.19)	74137 (15.02)	176 (1.06)
<i>tgqualt</i>	90130 (1.12)	81985 (13.59)	166 (1.00)
<i>timcon</i>	89110 (1.01)	15693 (70.98)	167 (1.01)
<i>DEL(0.)</i>	22651 (3.93)	663499 (1.68)	192 (1.16)
<i>tger</i>	21189 (1.07)	30970 (35.97)	177 (1.07)
<i>tgzfool</i>	20821 (1.02)	22511 (49.48)	173 (1.04)
<i>upvtrs</i>	20009 (1.04)	36694 (30.36)	170 (1.02)
<i>rvtrs</i>	19631 (1.02)	21969 (50.70)	176 (1.06)
<i>b4etcon</i>	19139 (1.03)	28832 (38.63)	172 (1.04)
<i>b4trs · b4ccd · targf</i>	7344 (2.61)	1038058 (1.07)	2613 (15.74)
<i>cpitrs</i>	6837 (1.07)	21624 (51.51)	168 (1.01)
<i>cpitail</i>	6834 (1.00)	2399 (464.32)	166 (1.00)
$1.1 < b4ars_atc < 5.$	5022 (1.36)	556755 (2.00)	262 (1.58)
<i>bwtrs</i>	250 (20.09)	254673 (4.37)	329 (1.98)
<i>cktrs</i>	172 (1.45)	626927 (1.78)	194 (1.17)
<i>cktail</i>	166 (1.04)	354519 (3.14)	172 (1.04)
Total Rej.	30.25		

Table 15: 2-Beam Rejection. Branch no. 2

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	68 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	68 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	68 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	68 (1.00)
<i>rngmom</i>	591334 (1.88)	522563 (2.13)	72 (1.06)
<i>pv(nottg)</i>	199549 (2.96)	559865 (1.99)	867 (12.75)
<i>pi_flg</i>	198005 (1.01)	62346 (17.87)	68 (1.00)
<i>ev502</i>	161268 (1.23)	350552 (3.18)	68 (1.00)
<i>elveto</i>	146787 (1.10)	378796 (2.94)	68 (1.00)
<i>tdfool</i>	146335 (1.00)	299065 (3.72)	68 (1.00)
<i>tdvarnn02</i>	120160 (1.22)	539826 (2.06)	68 (1.00)
TD	120160 (1.00)	736691 (1.51)	68 (1.00)
<i>b4dedx</i>	101154 (1.19)	74137 (15.02)	74 (1.09)
<i>tgqualt</i>	90130 (1.12)	81985 (13.59)	68 (1.00)
<i>timcon</i>	89110 (1.01)	15693 (70.98)	68 (1.00)
<i>DELC(0.)</i>	22651 (3.93)	663499 (1.68)	83 (1.22)
<i>tger</i>	21189 (1.07)	30970 (35.97)	69 (1.01)
<i>tgz fool</i>	20821 (1.02)	22511 (49.48)	68 (1.00)
<i>upvtrs</i>	20009 (1.04)	36694 (30.36)	70 (1.03)
<i>rvtrs</i>	19631 (1.02)	21969 (50.70)	70 (1.03)
<i>b4etcon</i>	19139 (1.03)	28832 (38.63)	68 (1.00)
<i>b4trs · b4ccd · targf</i>	7344 (2.61)	1038058 (1.07)	4048 (59.53)
<i>cktrs</i>	1155 (6.36)	626927 (1.78)	75 (1.10)
<i>cktail</i>	1029 (1.12)	354519 (3.14)	70 (1.03)
<i>b4ars_atc < 1.1</i>	479 (2.15)	565014 (1.97)	151 (2.22)
<i>tgz > -7.0</i>	410 (1.17)	195121 (5.71)	91 (1.34)
<i>bwtrs</i>	72 (5.69)	254673 (4.37)	165 (2.43)
<i>cpitrs</i>	68 (1.06)	21624 (51.51)	72 (1.06)
<i>cpitail</i>	68 (1.00)	2399 (464.32)	68 (1.00)
Total Rej.	6.03		

Table 16: 2-Beam Normalization. Branch no. 1

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	4 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	4 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	4 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	4 (1.00)
<i>pv(nottg)</i>	554032 (2.01)	559865 (1.99)	62 (15.50)
<i>tgqualt</i>	516213 (1.07)	81985 (13.59)	4 (1.00)
<i>timcon</i>	510676 (1.01)	15693 (70.98)	4 (1.00)
<i>epitg</i>	498334 (1.02)	39573 (28.15)	4 (1.00)
<i>tger</i>	488578 (1.02)	30970 (35.97)	4 (1.00)
<i>ticcon</i>	488557 (1.00)	260 (4284.22)	4 (1.00)
<i>dtgttp</i>	488514 (1.00)	754 (1477.32)	4 (1.00)
<i>rtdif</i>	482112 (1.01)	15226 (73.16)	4 (1.00)
<i>drp</i>	475433 (1.01)	19054 (58.46)	4 (1.00)
<i>eiicon</i>	464389 (1.02)	51501 (21.63)	4 (1.00)
<i>kic</i>	407088 (1.14)	184974 (6.02)	4 (1.00)
<i>tggeo</i>	348615 (1.17)	458436 (2.43)	4 (1.00)
<i>tgzfool</i>	345870 (1.01)	22511 (49.48)	4 (1.00)
<i>upvtrs</i>	333467 (1.04)	36694 (30.36)	4 (1.00)
<i>rvtrs</i>	331176 (1.01)	21969 (50.70)	4 (1.00)
<i>tgtcon</i>	317374 (1.04)	94983 (11.73)	4 (1.00)
<i>b4etcon</i>	310032 (1.02)	28832 (38.63)	4 (1.00)
<i>b4tim</i>	150943 (2.05)	395156 (2.82)	4 (1.00)
<i>tgktim</i>	150943 (1.00)	0 (1113897.00)	4 (1.00)
<i>tgenr</i>	147368 (1.02)	139955 (7.96)	4 (1.00)
<i>chi567</i>	53960 (2.73)	755392 (1.47)	5 (1.25)
<i>npitg</i>	53960 (1.00)	81985 (13.59)	4 (1.00)
<i>verrng</i>	39990 (1.35)	472223 (2.36)	9 (2.25)
<i>chi5max</i>	38337 (1.04)	336487 (3.31)	5 (1.25)
<i>angli</i>	38208 (1.00)	80179 (13.89)	4 (1.00)
<i>ALLK fit</i>	25803 (1.48)	319627 (3.48)	4 (1.00)
<i>tpics</i>	22560 (1.14)	152185 (7.32)	4 (1.00)
<i>epionk</i>	21838 (1.03)	46643 (23.88)	4 (1.00)
<i>ccd pul</i>	18661 (1.17)	302622 (3.68)	11 (2.75)
<i>timkf</i>	12771 (1.46)	684242 (1.63)	4 (1.00)
<i>DELIC(0.)</i>	2765 (4.62)	663499 (1.68)	238 (59.50)
<i>b4dedx</i>	2739 (1.01)	74137 (15.02)	4 (1.00)
<i>cpitrs</i>	2730 (1.00)	21624 (51.51)	5 (1.25)
<i>cpitail</i>	2730 (1.00)	2399 (464.32)	4 (1.00)
<i>cktrs · cktail · bwtrs</i>	664 (4.11)	397084 (2.81)	39 (9.75)
<i>PNN2box</i>	664 (1.00)	0 (1113897.00)	4 (1.00)
<i>icodel14</i>	664 (1.00)	7 (159128.00)	4 (1.00)
<i>cos3d</i>	651 (1.02)	81453 (13.68)	4 (1.00)
<i>layv4</i>	651 (1.00)	0 (1113897.00)	4 (1.00)
<i>zfrf</i>	649 (1.00)	1397 (797.35)	4 (1.00)
<i>zutout</i>	648 (1.00)	861 (1293.72)	4 (1.00)
FIDUCIAL	648 (1.00)	83217 (13.39)	4 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>utcqual</i>	531 (1.22)	232918 (4.78)	4 (1.00)
<i>rsdedxcl</i>	531 (1.00)	0 (1113897.00)	4 (1.00)
<i>rsdedxmax</i>	531 (1.00)	0 (1113897.00)	4 (1.00)
<i>rslike</i>	531 (1.00)	0 (1113897.00)	4 (1.00)
<i>tgktim</i>	531 (1.00)	0 (1113897.00)	4 (1.00)
<i>rngmom</i>	33 (16.09)	522563 (2.13)	4 (1.00)
<i>prrf1</i>	32 (1.03)	36162 (30.80)	4 (1.00)
<i>prrfz</i>	30 (1.07)	70853 (15.72)	4 (1.00)
PRRF	30 (1.00)	103177 (10.80)	4 (1.00)
<i>rtghi</i>	30 (1.00)	4247 (262.28)	4 (1.00)
<i>etghi</i>	30 (1.00)	29993 (37.14)	4 (1.00)
<i>tgdedx1</i>	25 (1.20)	206651 (5.39)	4 (1.00)
<i>tgdedx2</i>	25 (1.00)	90942 (12.25)	4 (1.00)
tgdedx	25 (1.00)	315546 (3.53)	4 (1.00)
<i>tglike1</i>	24 (1.04)	167394 (6.65)	4 (1.00)
<i>tglike2</i>	24 (1.00)	146392 (7.61)	4 (1.00)
TGLIKE	24 (1.00)	223297 (4.99)	4 (1.00)
<i>tgdb4</i>	23 (1.04)	94551 (11.78)	4 (1.00)
<i>tgdb4tip</i>	23 (1.00)	234014 (4.76)	4 (1.00)
<i>tgdvxtip</i>	22 (1.05)	110472 (10.08)	4 (1.00)
<i>tgdvxpi</i>	22 (1.00)	114742 (9.71)	4 (1.00)
TGB4	22 (1.00)	354715 (3.14)	4 (1.00)
<i>pigap</i>	21 (1.05)	105981 (10.51)	4 (1.00)
KIN	21 (1.00)	973538 (1.14)	4 (1.00)
<i>piflg</i>	21 (1.00)	62346 (17.87)	4 (1.00)
<i>ev502</i>	15 (1.40)	350552 (3.18)	4 (1.00)
<i>elveto</i>	14 (1.07)	378796 (2.94)	4 (1.00)
<i>tdfool</i>	14 (1.00)	299065 (3.72)	4 (1.00)
<i>tdvarnn02</i>	12 (1.17)	539826 (2.06)	4 (1.00)
TD	12 (1.00)	736691 (1.51)	4 (1.00)
<i>b4trs</i>	4 (3.00)	250270 (4.45)	12 (3.00)
<i>b4ccd</i>	4 (1.00)	18383 (60.59)	4 (1.00)
Total Rej.	3.00		

Table 17: 2-Beam Normalization. Branch no. 2

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	3 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	3 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	3 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	3 (1.00)
<i>pv(nottg)</i>	554032 (2.01)	559865 (1.99)	44 (14.67)
<i>tgqualt</i>	516213 (1.07)	81985 (13.59)	3 (1.00)
<i>timcon</i>	510676 (1.01)	15693 (70.98)	3 (1.00)
<i>epitg</i>	498334 (1.02)	39573 (28.15)	3 (1.00)
<i>tger</i>	488578 (1.02)	30970 (35.97)	3 (1.00)
<i>ticcon</i>	488557 (1.00)	260 (4284.22)	3 (1.00)
<i>dtgttp</i>	488514 (1.00)	754 (1477.32)	3 (1.00)
<i>rtdif</i>	482112 (1.01)	15226 (73.16)	3 (1.00)
<i>drp</i>	475433 (1.01)	19054 (58.46)	3 (1.00)
<i>eiicon</i>	464389 (1.02)	51501 (21.63)	3 (1.00)
<i>kic</i>	407088 (1.14)	184974 (6.02)	3 (1.00)
<i>tggeo</i>	348615 (1.17)	458436 (2.43)	3 (1.00)
<i>tgzfool</i>	345870 (1.01)	22511 (49.48)	3 (1.00)
<i>upvtrs</i>	333467 (1.04)	36694 (30.36)	3 (1.00)
<i>rvtrs</i>	331176 (1.01)	21969 (50.70)	3 (1.00)
<i>tgtcon</i>	317374 (1.04)	94983 (11.73)	3 (1.00)
<i>b4etcon</i>	310032 (1.02)	28832 (38.63)	3 (1.00)
<i>b4tim</i>	150943 (2.05)	395156 (2.82)	3 (1.00)
<i>tgktim</i>	150943 (1.00)	0 (1113897.00)	3 (1.00)
<i>tgenr</i>	147368 (1.02)	139955 (7.96)	3 (1.00)
<i>chi567</i>	53960 (2.73)	755392 (1.47)	4 (1.33)
<i>npitg</i>	53960 (1.00)	81985 (13.59)	3 (1.00)
<i>verrng</i>	39990 (1.35)	472223 (2.36)	3 (1.00)
<i>chi5max</i>	38337 (1.04)	336487 (3.31)	4 (1.33)
<i>angli</i>	38208 (1.00)	80179 (13.89)	3 (1.00)
<i>ALLK fit</i>	25803 (1.48)	319627 (3.48)	4 (1.33)
<i>tpics</i>	22560 (1.14)	152185 (7.32)	3 (1.00)
<i>epionk</i>	21838 (1.03)	46643 (23.88)	3 (1.00)
<i>ccd pul</i>	18661 (1.17)	302622 (3.68)	4 (1.33)
<i>timkf</i>	12771 (1.46)	684242 (1.63)	3 (1.00)
<i>DELC(0.)</i>	2765 (4.62)	663499 (1.68)	62 (20.67)
<i>b4dedx</i>	2739 (1.01)	74137 (15.02)	3 (1.00)
<i>cpitrs</i>	2730 (1.00)	21624 (51.51)	3 (1.00)
<i>cpitail</i>	2730 (1.00)	2399 (464.32)	3 (1.00)
<i>cktrs · cktail · bwtrs</i>	664 (4.11)	397084 (2.81)	25 (8.33)
<i>PNN2box</i>	664 (1.00)	0 (1113897.00)	3 (1.00)
<i>icodel14</i>	664 (1.00)	7 (159128.00)	3 (1.00)
<i>cos3d</i>	651 (1.02)	81453 (13.68)	3 (1.00)
<i>layv4</i>	651 (1.00)	0 (1113897.00)	3 (1.00)
<i>zfrf</i>	649 (1.00)	1397 (797.35)	3 (1.00)
<i>zutout</i>	648 (1.00)	861 (1293.72)	3 (1.00)
FIDUCIAL	648 (1.00)	83217 (13.39)	3 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>utcqual</i>	531 (1.22)	232918 (4.78)	3 (1.00)
<i>rsdedxcl</i>	531 (1.00)	0 (1113897.00)	3 (1.00)
<i>rsdedxmax</i>	531 (1.00)	0 (1113897.00)	3 (1.00)
<i>rslike</i>	531 (1.00)	0 (1113897.00)	3 (1.00)
<i>tgktim</i>	531 (1.00)	0 (1113897.00)	3 (1.00)
<i>rngmom</i>	33 (16.09)	522563 (2.13)	3 (1.00)
<i>prrf1</i>	32 (1.03)	36162 (30.80)	3 (1.00)
<i>prrfz</i>	30 (1.07)	70853 (15.72)	3 (1.00)
PRRF	30 (1.00)	103177 (10.80)	3 (1.00)
<i>rtghi</i>	30 (1.00)	4247 (262.28)	3 (1.00)
<i>etghi</i>	30 (1.00)	29993 (37.14)	3 (1.00)
<i>tgdedx1</i>	25 (1.20)	206651 (5.39)	3 (1.00)
<i>tgdedx2</i>	25 (1.00)	90942 (12.25)	3 (1.00)
tgdedx	25 (1.00)	315546 (3.53)	3 (1.00)
<i>tglike1</i>	24 (1.04)	167394 (6.65)	3 (1.00)
<i>tglike2</i>	24 (1.00)	146392 (7.61)	3 (1.00)
TGLIKE	24 (1.00)	223297 (4.99)	3 (1.00)
<i>tgdb4</i>	23 (1.04)	94551 (11.78)	3 (1.00)
<i>tgdb4tip</i>	23 (1.00)	234014 (4.76)	3 (1.00)
<i>tgdvxtip</i>	22 (1.05)	110472 (10.08)	3 (1.00)
<i>tgdvxpi</i>	22 (1.00)	114742 (9.71)	3 (1.00)
TGB4	22 (1.00)	354715 (3.14)	3 (1.00)
<i>pigap</i>	21 (1.05)	105981 (10.51)	3 (1.00)
KIN	21 (1.00)	973538 (1.14)	3 (1.00)
<i>piflg</i>	21 (1.00)	62346 (17.87)	3 (1.00)
<i>ev502</i>	15 (1.40)	350552 (3.18)	3 (1.00)
<i>elveto</i>	14 (1.07)	378796 (2.94)	3 (1.00)
<i>tdfool</i>	14 (1.00)	299065 (3.72)	3 (1.00)
<i>tdvarnn02</i>	12 (1.17)	539826 (2.06)	3 (1.00)
TD	12 (1.00)	736691 (1.51)	3 (1.00)
<i>targf</i>	12 (1.00)	181421 (6.14)	3 (1.00)
<i>b4ekz</i>	6 (2.00)	632174 (1.76)	4 (1.33)
<i>epimax</i>	6 (1.00)	78456 (14.20)	3 (1.00)
<i>phivtx1</i>	5 (1.20)	257571 (4.32)	3 (1.00)
<i>opsveto</i>	3 (1.67)	365884 (3.04)	3 (1.00)
<i>tdedge</i>	3 (1.00)	113066 (9.85)	3 (1.00)
<i>null</i>	3 (1.00)	0 (1113897.00)	3 (1.00)
<i>rtghi</i>	3 (1.00)	4247 (262.28)	3 (1.00)
<i>etghi</i>	3 (1.00)	29993 (37.14)	3 (1.00)
<i>tgdedx1</i>	3 (1.00)	206651 (5.39)	3 (1.00)
<i>tgdedx2</i>	3 (1.00)	90942 (12.25)	3 (1.00)
tgdedx	3 (1.00)	315546 (3.53)	3 (1.00)
<i>tglike1</i>	3 (1.00)	167394 (6.65)	3 (1.00)
<i>tglike2</i>	3 (1.00)	146392 (7.61)	3 (1.00)
TGLIKE	3 (1.00)	223297 (4.99)	3 (1.00)
<i>tgdb4</i>	3 (1.00)	94551 (11.78)	3 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>tgdb4tip</i>	3 (1.00)	234014 (4.76)	3 (1.00)
<i>tgdvxtip</i>	3 (1.00)	110472 (10.08)	3 (1.00)
<i>tgdvxpi</i>	3 (1.00)	114742 (9.71)	3 (1.00)
TGB4	3 (1.00)	354715 (3.14)	3 (1.00)
<i>pigap</i>	3 (1.00)	105981 (10.51)	3 (1.00)
TGKIN	3 (1.00)	637554 (1.75)	3 (1.00)
<i>tgpv</i>	3 (1.00)	421966 (2.64)	3 (1.00)
Total Rej.	4.00		

Table 18: 2-Beam Normalization. Branch no. 3

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	3 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	3 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	3 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	3 (1.00)
<i>pv(nottg)</i>	554032 (2.01)	559865 (1.99)	27 (9.00)
<i>tgqualt</i>	516213 (1.07)	81985 (13.59)	3 (1.00)
<i>timcon</i>	510676 (1.01)	15693 (70.98)	3 (1.00)
<i>epitg</i>	498334 (1.02)	39573 (28.15)	3 (1.00)
<i>tger</i>	488578 (1.02)	30970 (35.97)	3 (1.00)
<i>ticcon</i>	488557 (1.00)	260 (4284.22)	3 (1.00)
<i>dtgttp</i>	488514 (1.00)	754 (1477.32)	3 (1.00)
<i>rtdif</i>	482112 (1.01)	15226 (73.16)	3 (1.00)
<i>drp</i>	475433 (1.01)	19054 (58.46)	3 (1.00)
<i>eidcon</i>	464389 (1.02)	51501 (21.63)	3 (1.00)
<i>kic</i>	407088 (1.14)	184974 (6.02)	3 (1.00)
<i>tggeo</i>	348615 (1.17)	458436 (2.43)	3 (1.00)
<i>tgz fool</i>	345870 (1.01)	22511 (49.48)	3 (1.00)
<i>upvtrs</i>	333467 (1.04)	36694 (30.36)	3 (1.00)
<i>rvtrs</i>	331176 (1.01)	21969 (50.70)	3 (1.00)
<i>tgtcon</i>	317374 (1.04)	94983 (11.73)	3 (1.00)
<i>b4etcon</i>	310032 (1.02)	28832 (38.63)	3 (1.00)
<i>b4tim</i>	150943 (2.05)	395156 (2.82)	3 (1.00)
<i>tgktim</i>	150943 (1.00)	0 (1113897.00)	3 (1.00)
<i>tgenr</i>	147368 (1.02)	139955 (7.96)	3 (1.00)
<i>chi567</i>	53960 (2.73)	755392 (1.47)	3 (1.00)
<i>npitg</i>	53960 (1.00)	81985 (13.59)	3 (1.00)
<i>verrng</i>	39990 (1.35)	472223 (2.36)	4 (1.33)
<i>chi5max</i>	38337 (1.04)	336487 (3.31)	3 (1.00)
<i>angli</i>	38208 (1.00)	80179 (13.89)	3 (1.00)
<i>ALLK fit</i>	25803 (1.48)	319627 (3.48)	3 (1.00)
<i>tpics</i>	22560 (1.14)	152185 (7.32)	3 (1.00)
<i>epionk</i>	21838 (1.03)	46643 (23.88)	3 (1.00)
<i>ccd pul</i>	18661 (1.17)	302622 (3.68)	9 (3.00)
<i>timkf</i>	12771 (1.46)	684242 (1.63)	3 (1.00)
<i>DEL C(0.)</i>	2765 (4.62)	663499 (1.68)	3 (1.00)
<i>b4dedx</i>	2739 (1.01)	74137 (15.02)	3 (1.00)
<i>cktrs</i>	2207 (1.24)	626927 (1.78)	3 (1.00)
<i>cktail</i>	2151 (1.03)	354519 (3.14)	3 (1.00)
<i>PNN2box</i>	2151 (1.00)	0 (1113897.00)	3 (1.00)
<i>icodel14</i>	2151 (1.00)	7 (159128.00)	3 (1.00)
<i>cos3d</i>	2073 (1.04)	81453 (13.68)	3 (1.00)
<i>layv4</i>	2073 (1.00)	0 (1113897.00)	3 (1.00)
<i>zfrf</i>	2069 (1.00)	1397 (797.35)	3 (1.00)
<i>zutout</i>	2067 (1.00)	861 (1293.72)	3 (1.00)
FIDUCIAL	2067 (1.00)	83217 (13.39)	3 (1.00)
<i>utqual</i>	1656 (1.25)	232918 (4.78)	3 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>rsdedxcl</i>	1656 (1.00)	0 (1113897.00)	3 (1.00)
<i>rsdedxmax</i>	1656 (1.00)	0 (1113897.00)	3 (1.00)
<i>rslike</i>	1656 (1.00)	0 (1113897.00)	3 (1.00)
<i>tgktim</i>	1656 (1.00)	0 (1113897.00)	3 (1.00)
<i>rngmom</i>	90 (18.40)	522563 (2.13)	3 (1.00)
<i>prrf1</i>	85 (1.06)	36162 (30.80)	3 (1.00)
<i>prrfz</i>	83 (1.02)	70853 (15.72)	3 (1.00)
PRRF	83 (1.00)	103177 (10.80)	3 (1.00)
<i>rtghi</i>	83 (1.00)	4247 (262.28)	3 (1.00)
<i>etghi</i>	83 (1.00)	29993 (37.14)	3 (1.00)
<i>tgdedx1</i>	77 (1.08)	206651 (5.39)	3 (1.00)
<i>tgdedx2</i>	77 (1.00)	90942 (12.25)	3 (1.00)
tgdedx	77 (1.00)	315546 (3.53)	3 (1.00)
<i>tglike1</i>	77 (1.00)	167394 (6.65)	3 (1.00)
<i>tglike2</i>	77 (1.00)	146392 (7.61)	3 (1.00)
TGLIKE	77 (1.00)	223297 (4.99)	3 (1.00)
<i>tgdb4</i>	75 (1.03)	94551 (11.78)	3 (1.00)
<i>tgdb4tip</i>	74 (1.01)	234014 (4.76)	3 (1.00)
<i>tgdvxtip</i>	74 (1.00)	110472 (10.08)	3 (1.00)
<i>tgdvxpi</i>	74 (1.00)	114742 (9.71)	3 (1.00)
TGB4	74 (1.00)	354715 (3.14)	3 (1.00)
<i>pigap</i>	71 (1.04)	105981 (10.51)	3 (1.00)
KIN	71 (1.00)	973538 (1.14)	3 (1.00)
<i>piflg</i>	69 (1.03)	62346 (17.87)	3 (1.00)
<i>ev502</i>	58 (1.19)	350552 (3.18)	3 (1.00)
<i>elveto</i>	55 (1.05)	378796 (2.94)	3 (1.00)
<i>tdfool</i>	55 (1.00)	299065 (3.72)	3 (1.00)
<i>tdvarnn02</i>	45 (1.22)	539826 (2.06)	3 (1.00)
TD	45 (1.00)	736691 (1.51)	3 (1.00)
<i>cpitrs · cpitail · bwtrs</i>	6 (7.50)	844629 (1.32)	38 (12.67)
<i>b4trs</i>	3 (2.00)	250270 (4.45)	6 (2.00)
<i>b4ccd</i>	3 (1.00)	18383 (60.59)	3 (1.00)
Total Rej.	2.00		

Table 19: 2-Beam Normalization. Branch no. 4

Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>PNN2box</i>	1113897 (0.00)	0 (1113897.00)	2 (1.00)
<i>rsdedxmax</i>	1113897 (1.00)	0 (1113897.00)	2 (1.00)
<i>rsdedxcl</i>	1113897 (1.00)	0 (1113897.00)	2 (1.00)
<i>rslike</i>	1113897 (1.00)	0 (1113897.00)	2 (1.00)
<i>pv(nottg)</i>	554032 (2.01)	559865 (1.99)	15 (7.50)
<i>tgqualt</i>	516213 (1.07)	81985 (13.59)	2 (1.00)
<i>timcon</i>	510676 (1.01)	15693 (70.98)	2 (1.00)
<i>epitg</i>	498334 (1.02)	39573 (28.15)	2 (1.00)
<i>tger</i>	488578 (1.02)	30970 (35.97)	2 (1.00)
<i>ticcon</i>	488557 (1.00)	260 (4284.22)	2 (1.00)
<i>dtgttp</i>	488514 (1.00)	754 (1477.32)	2 (1.00)
<i>rtdif</i>	482112 (1.01)	15226 (73.16)	2 (1.00)
<i>drp</i>	475433 (1.01)	19054 (58.46)	2 (1.00)
<i>eidcon</i>	464389 (1.02)	51501 (21.63)	2 (1.00)
<i>kic</i>	407088 (1.14)	184974 (6.02)	2 (1.00)
<i>tggeo</i>	348615 (1.17)	458436 (2.43)	2 (1.00)
<i>tgz fool</i>	345870 (1.01)	22511 (49.48)	2 (1.00)
<i>upvtrs</i>	333467 (1.04)	36694 (30.36)	2 (1.00)
<i>rvtrs</i>	331176 (1.01)	21969 (50.70)	2 (1.00)
<i>tgtcon</i>	317374 (1.04)	94983 (11.73)	2 (1.00)
<i>b4etcon</i>	310032 (1.02)	28832 (38.63)	2 (1.00)
<i>b4tim</i>	150943 (2.05)	395156 (2.82)	2 (1.00)
<i>tgktim</i>	150943 (1.00)	0 (1113897.00)	2 (1.00)
<i>tgenr</i>	147368 (1.02)	139955 (7.96)	2 (1.00)
<i>chi567</i>	53960 (2.73)	755392 (1.47)	2 (1.00)
<i>npitg</i>	53960 (1.00)	81985 (13.59)	2 (1.00)
<i>verrng</i>	39990 (1.35)	472223 (2.36)	2 (1.00)
<i>chi5max</i>	38337 (1.04)	336487 (3.31)	2 (1.00)
<i>angli</i>	38208 (1.00)	80179 (13.89)	2 (1.00)
<i>ALLK fit</i>	25803 (1.48)	319627 (3.48)	3 (1.50)
<i>tpics</i>	22560 (1.14)	152185 (7.32)	2 (1.00)
<i>epionk</i>	21838 (1.03)	46643 (23.88)	2 (1.00)
<i>ccd pul</i>	18661 (1.17)	302622 (3.68)	3 (1.50)
<i>timkf</i>	12771 (1.46)	684242 (1.63)	2 (1.00)
<i>DEL C(0.)</i>	2765 (4.62)	663499 (1.68)	2 (1.00)
<i>b4dedx</i>	2739 (1.01)	74137 (15.02)	2 (1.00)
<i>cktrs</i>	2207 (1.24)	626927 (1.78)	2 (1.00)
<i>cktail</i>	2151 (1.03)	354519 (3.14)	2 (1.00)
<i>PNN2box</i>	2151 (1.00)	0 (1113897.00)	2 (1.00)
<i>icodel14</i>	2151 (1.00)	7 (159128.00)	2 (1.00)
<i>cos3d</i>	2073 (1.04)	81453 (13.68)	2 (1.00)
<i>layv4</i>	2073 (1.00)	0 (1113897.00)	2 (1.00)
<i>zfrf</i>	2069 (1.00)	1397 (797.35)	2 (1.00)
<i>zutout</i>	2067 (1.00)	861 (1293.72)	2 (1.00)
FIDUCIAL	2067 (1.00)	83217 (13.39)	2 (1.00)
<i>utqual</i>	1656 (1.25)	232918 (4.78)	2 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>rsdedxcl</i>	1656 (1.00)	0 (1113897.00)	2 (1.00)
<i>rsdedxmax</i>	1656 (1.00)	0 (1113897.00)	2 (1.00)
<i>rslike</i>	1656 (1.00)	0 (1113897.00)	2 (1.00)
<i>tgktim</i>	1656 (1.00)	0 (1113897.00)	2 (1.00)
<i>rngmom</i>	90 (18.40)	522563 (2.13)	2 (1.00)
<i>prrf1</i>	85 (1.06)	36162 (30.80)	2 (1.00)
<i>prrfz</i>	83 (1.02)	70853 (15.72)	2 (1.00)
PRRF	83 (1.00)	103177 (10.80)	2 (1.00)
<i>rtghi</i>	83 (1.00)	4247 (262.28)	2 (1.00)
<i>etghi</i>	83 (1.00)	29993 (37.14)	2 (1.00)
<i>tgdedx1</i>	77 (1.08)	206651 (5.39)	2 (1.00)
<i>tgdedx2</i>	77 (1.00)	90942 (12.25)	2 (1.00)
tgdedx	77 (1.00)	315546 (3.53)	2 (1.00)
<i>tglike1</i>	77 (1.00)	167394 (6.65)	2 (1.00)
<i>tglike2</i>	77 (1.00)	146392 (7.61)	2 (1.00)
TGLIKE	77 (1.00)	223297 (4.99)	2 (1.00)
<i>tgdb4</i>	75 (1.03)	94551 (11.78)	2 (1.00)
<i>tgdb4tip</i>	74 (1.01)	234014 (4.76)	2 (1.00)
<i>tgdvxtip</i>	74 (1.00)	110472 (10.08)	2 (1.00)
<i>tgdvxpi</i>	74 (1.00)	114742 (9.71)	2 (1.00)
TGB4	74 (1.00)	354715 (3.14)	2 (1.00)
<i>pigap</i>	71 (1.04)	105981 (10.51)	2 (1.00)
KIN	71 (1.00)	973538 (1.14)	2 (1.00)
<i>piflg</i>	69 (1.03)	62346 (17.87)	2 (1.00)
<i>ev502</i>	58 (1.19)	350552 (3.18)	2 (1.00)
<i>elveto</i>	55 (1.05)	378796 (2.94)	2 (1.00)
<i>tdfool</i>	55 (1.00)	299065 (3.72)	2 (1.00)
<i>tdvarnn02</i>	45 (1.22)	539826 (2.06)	2 (1.00)
TD	45 (1.00)	736691 (1.51)	2 (1.00)
<i>cpitrs · cpitail · bwtrs</i>	6 (7.50)	844629 (1.32)	24 (12.00)
<i>targf</i>	6 (1.00)	181421 (6.14)	2 (1.00)
<i>b4ekz</i>	5 (1.20)	632174 (1.76)	3 (1.50)
<i>epimax</i>	5 (1.00)	78456 (14.20)	2 (1.00)
<i>phivtx1</i>	3 (1.67)	257571 (4.32)	2 (1.00)
<i>opsveto</i>	2 (1.50)	365884 (3.04)	2 (1.00)
<i>tdedge</i>	2 (1.00)	113066 (9.85)	2 (1.00)
<i>null</i>	2 (1.00)	0 (1113897.00)	2 (1.00)
<i>rtghi</i>	2 (1.00)	4247 (262.28)	2 (1.00)
<i>etghi</i>	2 (1.00)	29993 (37.14)	2 (1.00)
<i>tgdedx1</i>	2 (1.00)	206651 (5.39)	2 (1.00)
<i>tgdedx2</i>	2 (1.00)	90942 (12.25)	2 (1.00)
tgdedx	2 (1.00)	315546 (3.53)	2 (1.00)
<i>tglike1</i>	2 (1.00)	167394 (6.65)	2 (1.00)
<i>tglike2</i>	2 (1.00)	146392 (7.61)	2 (1.00)
TGLIKE	2 (1.00)	223297 (4.99)	2 (1.00)
<i>tgdb4</i>	2 (1.00)	94551 (11.78)	2 (1.00)

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Cuts	pnn2cpi seq	pnn2cpi single	pnn2cpi allbut
<i>tgdb4tip</i>	2 (1.00)	234014 (4.76)	2 (1.00)
<i>tgdvxtip</i>	2 (1.00)	110472 (10.08)	2 (1.00)
<i>tgdvxpi</i>	2 (1.00)	114742 (9.71)	2 (1.00)
TGB4	2 (1.00)	354715 (3.14)	2 (1.00)
<i>pigap</i>	2 (1.00)	105981 (10.51)	2 (1.00)
TGKIN	2 (1.00)	637554 (1.75)	2 (1.00)
<i>tgpv</i>	2 (1.00)	421966 (2.64)	2 (1.00)
Total Rej.	3.00		