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Numbers in tables created on unknown unknown unknown.

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.

The title of a column describes the data set used.

pnn2 = PNN1+PNN2 data with the most up-to-date cuts applied.

pnn1 = PNN1 data with the most up-to-date cuts applied.

pnn2only = PNN2 data with the most up-to-date cuts applied.

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.

Some cuts may have 787, 949, or cur attached to them. That means that the cut is set at the e787-pnn2, e949-pnn1, or the current e949-pnn2 level. Note that many of the cuts labeled cur are more than likely to be a carry over from e949-pnn1.

<i>rejection (n)</i>	pnn1e	earlyp2p2
<i>Loose Setup</i>	4076.0 \pm 2881.8 (2)	13290.5 \pm 9397.5 (2)
<i>TD</i>	4701.0 \pm 4700.5 (1)	7891.5 \pm 5579.8 (2)
<i>TD · KIN</i>	1326.0 \pm 1325.5 (1)	4943.0 \pm 4942.5 (1)

Table 1: **1-Beam Rejection Summary** of Tables 6-8. Each row is a different branch to measure the DELCO 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>	pnn1e	earlyp2p2
ALL cuts below NORM	5.0 \pm 2.2	1.0 \pm 1.0
<i>PV · TD norm</i>	24.0 \pm 4.9	5.0 \pm 2.2
<i>CkTRS · CkTail rej</i>	19.0 \pm 10.7	4.3 \pm 1.2
<i>BADEDX norm</i>	158.0 \pm 12.6	1.0 \pm 1.0
<i>CpiTRS · CpiTail rej</i>	68.0 \pm 67.5	0.0 \pm 0.0
N_K	1.3 \pm 0.8	1.5 \pm 0.8
N_{π}	2.4 \pm 2.6	99999.0 \pm 19999.8

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>	pnn1e	earlyp2p2
$Rej_{K-K} : BWTRS \cdot CkTRS \cdot CkTail$	118.7 ± 68.2 (3)	18.1 ± 1.8 (95)
$Rej_{K-\pi} : BWTRS \cdot CpiTRS \cdot CpiTail$	2383.0 ± 1684.7 (2)	98.8 ± 17.1 (33)

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- π is the case where we have a Kaon and a Pion entering. $\overline{B4TRS \cdot B4CCD}$ is applied.

<i>Norm. branches</i>	pnn1e	earlyp2p2
$K-K_n : B4TRS \cdot B4CCD$	1.0 ± 1.0	1.0 ± 1.0
$K-K_r : TG \cdot TGKIN \cdot TGPV$	19.0 ± 18.5	3.0 ± 2.4
$K-\pi_n : B4TRS \cdot B4CCD$	16.0 ± 4.0	1.0 ± 1.0
$K-\pi_r : TG \cdot TGKIN \cdot TGPV$	124.8 ± 62.1	15.0 ± 14.5
N_{K-K}	0.1 ± 0.1	0.5 ± 0.6
$N_{K-\pi}$	0.1 ± 0.1	0.1 ± 0.1

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. For KK (K π), $\overline{CkTRS \cdot CkTAIL \cdot BWTRS}$ ($\overline{CpiTRS \cdot CpiTAIL \cdot BWTRS}$) is applied

<i>Bkgrnd ($\times 10^{-3}$)</i>	k034	e787	pnn1e	earlyp2p2
1-BM	3.86 ± 2.36	1.66 ± 1.66	11.32 ± 11.32	0.61 ± 0.61
2-BM <i>KK</i>	0.983 ± 0.983	145.9 ± 145.9	1.33 ± 2.01	87.46 ± 113.25
2-BM <i>Kpi</i>	0.106 ± 0.106	19.7 ± 19.7	0.16 ± 0.15	2.19 ± 3.07
2-BM	1.14 ± 1.14	165.6 ± 165.6	1.49 ± 1.49	89.65 ± 89.65
<i>Total</i>	5.00 ± 2.62	167.3 ± 167.3	12.81 ± 12.56	90.26 ± 90.26

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 are 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	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 a
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	2 (1.00)	763506 (0.00)	0 (763506.00)	2 (
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	2 (1.00)	763506 (1.00)	0 (763506.00)	2 (
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	2 (1.00)	763506 (1.00)	0 (763506.00)	2 (
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	2 (1.00)	763506 (1.00)	0 (763506.00)	2 (
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	4 (2.00)	540193 (1.41)	223313 (3.42)	6 (
<i>pv(not tg) cur</i>	75763 (1.48)	39794 (3.10)	2 (1.00)	287589 (1.88)	327438 (2.33)	7 (
<i>bwtrs cur</i>	47474 (1.60)	42904 (2.88)	3 (1.50)	218807 (1.31)	176329 (4.33)	2 (
<i>b4trs cur</i>	41734 (1.14)	40683 (3.03)	4 (2.00)	190944 (1.15)	170529 (4.48)	4 (
<i>b4ccd cur</i>	41669 (1.00)	896 (137.79)	2 (1.00)	190491 (1.00)	9165 (83.31)	2 (
<i>tgqualt</i> 949	41669 (1.00)	0 (123463.00)	2 (1.00)	176293 (1.08)	54567 (13.99)	2 (
<i>timcon cur</i>	41466 (1.00)	1228 (100.54)	2 (1.00)	175365 (1.01)	8971 (85.11)	2 (
<i>epitg</i> 949	41009 (1.01)	6472 (19.08)	2 (1.00)	173126 (1.01)	19737 (38.68)	2 (
<i>tger</i> 949	40775 (1.01)	1248 (98.93)	2 (1.00)	171966 (1.01)	20789 (36.73)	2 (
<i>targf</i> 949	39215 (1.04)	23330 (5.29)	2 (1.00)	163539 (1.05)	105229 (7.26)	5 (
<i>ticcon</i> 949	39214 (1.00)	8 (15432.90)	2 (1.00)	163536 (1.00)	117 (6525.69)	2 (
<i>dtgttp</i> 949	39200 (1.00)	63 (1959.73)	2 (1.00)	163516 (1.00)	653 (1169.23)	2 (
<i>rtdif</i> 949	37701 (1.04)	3513 (35.14)	2 (1.00)	157258 (1.04)	17941 (42.56)	2 (
<i>epimaxk</i> 949	35498 (1.06)	13036 (9.47)	2 (1.00)	148417 (1.06)	46984 (16.25)	2 (
<i>drp</i> 949	35121 (1.01)	859 (143.73)	2 (1.00)	144313 (1.03)	13627 (56.03)	2 (
<i>phivtx1</i> 949	27681 (1.27)	26609 (4.64)	3 (1.50)	112699 (1.28)	168683 (4.53)	5 (
<i>iccon</i> 949	26757 (1.03)	4606 (26.80)	2 (1.00)	109710 (1.03)	32211 (23.70)	2 (
<i>opsveto</i> 949	22168 (1.21)	33039 (3.74)	2 (1.00)	85469 (1.28)	233980 (3.26)	2 (
<i>kic</i> 949	20171 (1.10)	29209 (4.23)	2 (1.00)	77112 (1.11)	153781 (4.96)	2 (
<i>tggeo cur</i>	18228 (1.11)	48749 (2.53)	2 (1.00)	66459 (1.16)	319091 (2.39)	2 (
<i>tdedge</i> 949	17047 (1.07)	20060 (6.15)	2 (1.00)	62087 (1.07)	108151 (7.06)	2 (
<i>tgzfool</i> 949	16958 (1.01)	963 (128.21)	2 (1.00)	61907 (1.00)	12333 (61.91)	2 (
<i>upvtrs cur</i>	14749 (1.15)	14831 (8.32)	2 (1.00)	53869 (1.15)	60718 (12.57)	2 (
<i>rvtrs cur</i>	14685 (1.00)	1942 (63.58)	2 (1.00)	53598 (1.01)	15533 (49.15)	2 (
<i>tgtcon cur</i>	14293 (1.03)	6850 (18.02)	2 (1.00)	50905 (1.05)	60727 (12.57)	6 (
<i>b4etcon cur</i>	13935 (1.03)	3834 (32.20)	3 (1.50)	49578 (1.03)	23606 (32.34)	2 (
<i>b4abm</i> < 1.0	8152 (1.71)	77289 (1.60)	531 (265.50)	26581 (1.87)	581714 (1.31)	516 (25
<i>DELCO</i> 949	2 (4076.00)	87138 (1.42)	8152 (4076.00)	2 (13290.50)	544240 (1.40)	26581 (1329
Total Rej.		4076.00			13290.50	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	0 (0.00)	763506 (0.00)	0 (763506.00)	2 (123463.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	2 (123463.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	2 (123463.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	2 (123463.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	0 (0.00)	540193 (1.41)	223313 (3.42)	2 (111942.00)
<i>pv(not tg) cur</i>	75763 (1.48)	39794 (3.10)	0 (0.00)	287589 (1.88)	327438 (2.33)	3 (75763.00)
<i>bwtrs cur</i>	47474 (1.60)	42904 (2.88)	1 (1.00)	218807 (1.31)	176329 (4.33)	2 (47474.00)
<i>b4trs cur</i>	41734 (1.14)	40683 (3.03)	1 (1.00)	190944 (1.15)	170529 (4.48)	3 (41734.00)
<i>b4ccd cur</i>	41669 (1.00)	896 (137.79)	0 (0.00)	190491 (1.00)	9165 (83.31)	2 (41669.00)
<i>tgqualt</i> 949	41669 (1.00)	0 (123463.00)	0 (0.00)	176293 (1.08)	54567 (13.99)	2 (41669.00)
<i>timcon cur</i>	41466 (1.00)	1228 (100.54)	0 (0.00)	175365 (1.01)	8971 (85.11)	2 (41466.00)
<i>epitg</i> 949	41009 (1.01)	6472 (19.08)	0 (0.00)	173126 (1.01)	19737 (38.68)	2 (41009.00)
<i>tger</i> 949	40775 (1.01)	1248 (98.93)	0 (0.00)	171966 (1.01)	20789 (36.73)	2 (40775.00)
<i>targf</i> 949	39215 (1.04)	23330 (5.29)	0 (0.00)	163539 (1.05)	105229 (7.26)	4 (39215.00)
<i>ticcon</i> 949	39214 (1.00)	8 (15432.90)	0 (0.00)	163536 (1.00)	117 (6525.69)	2 (39214.00)
<i>dtgttp</i> 949	39200 (1.00)	63 (1959.73)	0 (0.00)	163516 (1.00)	653 (1169.23)	2 (39200.00)
<i>rtdif</i> 949	37701 (1.04)	3513 (35.14)	0 (0.00)	157258 (1.04)	17941 (42.56)	2 (37701.00)
<i>epimaxk</i> 949	35498 (1.06)	13036 (9.47)	0 (0.00)	148417 (1.06)	46984 (16.25)	2 (35498.00)
<i>drp</i> 949	35121 (1.01)	859 (143.73)	0 (0.00)	144313 (1.03)	13627 (56.03)	2 (35121.00)
<i>phivtx1</i> 949	27681 (1.27)	26609 (4.64)	0 (0.00)	112699 (1.28)	168683 (4.53)	4 (27681.00)
<i>iccon</i> 949	26757 (1.03)	4606 (26.80)	0 (0.00)	109710 (1.03)	32211 (23.70)	2 (26757.00)
<i>opsveto</i> 949	22168 (1.21)	33039 (3.74)	0 (0.00)	85469 (1.28)	233980 (3.26)	2 (22168.00)
<i>kic</i> 949	20171 (1.10)	29209 (4.23)	0 (0.00)	77112 (1.11)	153781 (4.96)	2 (20171.00)
<i>tggeo cur</i>	18228 (1.11)	48749 (2.53)	0 (0.00)	66459 (1.16)	319091 (2.39)	2 (18228.00)
<i>tdedge</i> 949	17047 (1.07)	20060 (6.15)	0 (0.00)	62087 (1.07)	108151 (7.06)	2 (17047.00)
<i>tgzfool</i> 949	16958 (1.01)	963 (128.21)	0 (0.00)	61907 (1.00)	12333 (61.91)	2 (16958.00)
<i>upvtrs cur</i>	14749 (1.15)	14831 (8.32)	0 (0.00)	53869 (1.15)	60718 (12.57)	2 (14749.00)
<i>rvtrs cur</i>	14685 (1.00)	1942 (63.58)	0 (0.00)	53598 (1.01)	15533 (49.15)	2 (14685.00)
<i>tgtcon cur</i>	14293 (1.03)	6850 (18.02)	0 (0.00)	50905 (1.05)	60727 (12.57)	5 (14293.00)
<i>b4etcon cur</i>	13935 (1.03)	3834 (32.20)	0 (0.00)	49578 (1.03)	23606 (32.34)	2 (13935.00)
<i>b4abm < 1.0</i>	8152 (1.71)	77289 (1.60)	3 (3.00)	26581 (1.87)	581714 (1.31)	235 (8152.00)
<i>piflg cur</i>	8143 (1.00)	2869 (43.03)	0 (0.00)	26509 (1.00)	25958 (29.41)	2 (8143.00)
<i>ev502 cur</i>	6478 (1.26)	29072 (4.25)	0 (0.00)	21025 (1.26)	218072 (3.50)	2 (6478.00)
<i>elveto cur</i>	5878 (1.10)	19129 (6.45)	0 (0.00)	19324 (1.09)	184712 (4.13)	2 (5878.00)
<i>tdfool cur</i>	5868 (1.00)	9525 (12.96)	0 (0.00)	19279 (1.00)	134180 (5.69)	2 (5868.00)
<i>tdvarnn02 cur</i>	4701 (1.25)	32692 (3.78)	0 (0.00)	15783 (1.22)	283368 (2.69)	2 (4701.00)
TD cur	4701 (1.00)	57912 (2.13)	0 (0.00)	15783 (1.00)	433258 (1.76)	2 (4701.00)
<i>DELCO</i> 949	0 (4701.00)	87138 (1.42)	4701 (4701.00)	2 (7891.50)	544240 (1.40)	15783 (7891.50)
Total Rej.		4701.00			7891.50	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	0 (0.00)	763506 (0.00)	0 (763506.00)	1 (1.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	1 (1.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	1 (1.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	1 (1.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	0 (0.00)	540193 (1.41)	223313 (3.42)	1 (1.00)
<i>pv(not tg) cur</i>	75763 (1.48)	39794 (3.10)	0 (0.00)	287589 (1.88)	327438 (2.33)	1 (1.00)
<i>bwtrs cur</i>	47474 (1.60)	42904 (2.88)	1 (1.00)	218807 (1.31)	176329 (4.33)	1 (1.00)
<i>b4trs cur</i>	41734 (1.14)	40683 (3.03)	0 (0.00)	190944 (1.15)	170529 (4.48)	1 (1.00)
<i>b4ccd cur</i>	41669 (1.00)	896 (137.79)	0 (0.00)	190491 (1.00)	9165 (83.31)	1 (1.00)
<i>tgqualt</i> 949	41669 (1.00)	0 (123463.00)	0 (0.00)	176293 (1.08)	54567 (13.99)	1 (1.00)
<i>timcon cur</i>	41466 (1.00)	1228 (100.54)	0 (0.00)	175365 (1.01)	8971 (85.11)	1 (1.00)
<i>epitg</i> 949	41009 (1.01)	6472 (19.08)	0 (0.00)	173126 (1.01)	19737 (38.68)	1 (1.00)
<i>tger</i> 949	40775 (1.01)	1248 (98.93)	0 (0.00)	171966 (1.01)	20789 (36.73)	1 (1.00)
<i>targf</i> 949	39215 (1.04)	23330 (5.29)	0 (0.00)	163539 (1.05)	105229 (7.26)	1 (1.00)
<i>ticcon</i> 949	39214 (1.00)	8 (15432.90)	0 (0.00)	163536 (1.00)	117 (6525.69)	1 (1.00)
<i>dtgttp</i> 949	39200 (1.00)	63 (1959.73)	0 (0.00)	163516 (1.00)	653 (1169.23)	1 (1.00)
<i>rtdif</i> 949	37701 (1.04)	3513 (35.14)	0 (0.00)	157258 (1.04)	17941 (42.56)	1 (1.00)
<i>epimaxk</i> 949	35498 (1.06)	13036 (9.47)	0 (0.00)	148417 (1.06)	46984 (16.25)	1 (1.00)
<i>drp</i> 949	35121 (1.01)	859 (143.73)	0 (0.00)	144313 (1.03)	13627 (56.03)	1 (1.00)
<i>phivtx1</i> 949	27681 (1.27)	26609 (4.64)	0 (0.00)	112699 (1.28)	168683 (4.53)	1 (1.00)
<i>iccon</i> 949	26757 (1.03)	4606 (26.80)	0 (0.00)	109710 (1.03)	32211 (23.70)	1 (1.00)
<i>opsveto</i> 949	22168 (1.21)	33039 (3.74)	0 (0.00)	85469 (1.28)	233980 (3.26)	1 (1.00)
<i>kic</i> 949	20171 (1.10)	29209 (4.23)	0 (0.00)	77112 (1.11)	153781 (4.96)	1 (1.00)
<i>tggeo cur</i>	18228 (1.11)	48749 (2.53)	0 (0.00)	66459 (1.16)	319091 (2.39)	1 (1.00)
<i>tdedge</i> 949	17047 (1.07)	20060 (6.15)	0 (0.00)	62087 (1.07)	108151 (7.06)	1 (1.00)
<i>tgzfool</i> 949	16958 (1.01)	963 (128.21)	0 (0.00)	61907 (1.00)	12333 (61.91)	1 (1.00)
<i>upvtrs cur</i>	14749 (1.15)	14831 (8.32)	0 (0.00)	53869 (1.15)	60718 (12.57)	1 (1.00)
<i>rvtrs cur</i>	14685 (1.00)	1942 (63.58)	0 (0.00)	53598 (1.01)	15533 (49.15)	1 (1.00)
<i>tgtcon cur</i>	14293 (1.03)	6850 (18.02)	0 (0.00)	50905 (1.05)	60727 (12.57)	3 (3.00)
<i>b4etcon cur</i>	13935 (1.03)	3834 (32.20)	0 (0.00)	49578 (1.03)	23606 (32.34)	1 (1.00)
<i>b4abm < 1.0</i>	8152 (1.71)	77289 (1.60)	0 (0.00)	26581 (1.87)	581714 (1.31)	112 (112.00)
<i>piflg cur</i>	8143 (1.00)	2869 (43.03)	0 (0.00)	26509 (1.00)	25958 (29.41)	1 (1.00)
<i>ev502 cur</i>	6478 (1.26)	29072 (4.25)	0 (0.00)	21025 (1.26)	218072 (3.50)	1 (1.00)
<i>elveto cur</i>	5878 (1.10)	19129 (6.45)	0 (0.00)	19324 (1.09)	184712 (4.13)	1 (1.00)
<i>tdfool cur</i>	5868 (1.00)	9525 (12.96)	0 (0.00)	19279 (1.00)	134180 (5.69)	1 (1.00)
<i>tdvarnn02 cur</i>	4701 (1.25)	32692 (3.78)	0 (0.00)	15783 (1.22)	283368 (2.69)	1 (1.00)
TD <i>cur</i>	4701 (1.00)	57912 (2.13)	0 (0.00)	15783 (1.00)	433258 (1.76)	1 (1.00)
<i>BOX</i> 949	4701 (1.00)	0 (123463.00)	0 (0.00)	15783 (1.00)	0 (763506.00)	1 (1.00)
<i>icodel14 cur</i>	4697 (1.00)	1683 (73.36)	0 (0.00)	15783 (1.00)	4 (190877.00)	1 (1.00)
<i>cos3d cur</i>	4456 (1.05)	7800 (15.83)	0 (0.00)	14915 (1.06)	58256 (13.11)	1 (1.00)
<i>layv4</i> 949	4456 (1.00)	0 (123463.00)	0 (0.00)	14915 (1.00)	0 (763506.00)	1 (1.00)
<i>zfrf cur</i>	4152 (1.07)	13238 (9.33)	0 (0.00)	14910 (1.00)	828 (922.11)	1 (1.00)
<i>zutout cur</i>	4152 (1.00)	362 (341.06)	0 (0.00)	14906 (1.00)	592 (1289.71)	1 (1.00)
FIDUCIAL 949	4152 (1.00)	15446 (7.99)	0 (0.00)	14906 (1.00)	59345 (12.87)	1 (1.00)
<i>utqual</i> 949	3328 (1.25)	35084 (3.52)	0 (0.00)	12995 (1.15)	153963 (4.96)	1 (1.00)
<i>rsdedxcl</i> 949	3328 (1.00)	0 (123463.00)	0 (0.00)	12995 (1.00)	0 (763506.00)	1 (1.00)

continued on next p

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>rsdedxmax cur</i>	3328 (1.00)	0 (123463.00)	0 (0.00)	12995 (1.00)	0 (763506.00)	1 (1.00)
<i>rslike cur</i>	3328 (1.00)	0 (123463.00)	0 (0.00)	12995 (1.00)	0 (763506.00)	1 (1.00)
<i>rngmom cur</i>	3328 (1.00)	11521 (10.72)	0 (0.00)	12995 (1.00)	223313 (3.42)	1 (1.00)
<i>prrf1 949</i>	2933 (1.13)	18246 (6.77)	0 (0.00)	12575 (1.03)	24547 (31.10)	1 (1.00)
<i>prrfz 949</i>	2599 (1.13)	20553 (6.01)	0 (0.00)	11996 (1.05)	51815 (14.74)	1 (1.00)
PRRF 949	2599 (1.00)	34294 (3.60)	0 (0.00)	11996 (1.00)	73789 (10.35)	1 (1.00)
<i>rtghi cur</i>	2596 (1.00)	503 (245.45)	0 (0.00)	11990 (1.00)	2460 (310.37)	1 (1.00)
<i>etghi cur</i>	2551 (1.02)	3869 (31.91)	0 (0.00)	11865 (1.01)	18464 (41.35)	1 (1.00)
<i>tgdedx1 cur</i>	2437 (1.05)	13415 (9.20)	0 (0.00)	10635 (1.12)	136457 (5.60)	1 (1.00)
<i>tgdedx2 cur</i>	2356 (1.03)	11102 (11.12)	0 (0.00)	10297 (1.03)	63770 (11.97)	1 (1.00)
tgdedx cur	2356 (1.00)	26918 (4.59)	0 (0.00)	10297 (1.00)	210833 (3.62)	1 (1.00)
<i>tglike1 cur</i>	2291 (1.03)	14073 (8.77)	0 (0.00)	9803 (1.05)	108578 (7.03)	1 (1.00)
<i>tglike2 cur</i>	2228 (1.03)	11339 (10.89)	0 (0.00)	9365 (1.05)	97907 (7.80)	1 (1.00)
TGLIKE cur	2228 (1.00)	18814 (6.56)	0 (0.00)	9365 (1.00)	147246 (5.19)	1 (1.00)
<i>tgdb4 cur</i>	2159 (1.03)	9772 (12.63)	0 (0.00)	9134 (1.03)	60906 (12.54)	1 (1.00)
<i>tgdb4tip cur</i>	1672 (1.29)	37628 (3.28)	0 (0.00)	6526 (1.40)	208039 (3.67)	1 (1.00)
<i>tgdvxtip cur</i>	1467 (1.14)	24915 (4.96)	0 (0.00)	5577 (1.17)	125191 (6.10)	1 (1.00)
<i>tgdvxpi cur</i>	1356 (1.08)	20592 (6.00)	0 (0.00)	5121 (1.09)	86718 (8.80)	1 (1.00)
TGB4 cur	1356 (1.00)	60906 (2.03)	0 (0.00)	5121 (1.00)	314260 (2.43)	1 (1.00)
<i>pigap cur</i>	1326 (1.02)	10166 (12.14)	0 (0.00)	4943 (1.04)	68694 (11.11)	1 (1.00)
KIN 949	1326 (1.00)	104166 (1.19)	0 (0.00)	4943 (1.00)	646729 (1.18)	1 (1.00)
<i>DELCO</i> 949	0 (1326.00)	87138 (1.42)	1326 (1326.00)	1 (4943.00)	544240 (1.40)	4943 (4943.00)
Total Rej.		1326.00			4943.00	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	5 (1.00)	763506 (0.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	5 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	5 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	5 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	5 (1.00)	540193 (1.41)	223313 (3.42)	0 (0.00)
<i>BOX</i> 949	111942 (1.00)	0 (123463.00)	5 (1.00)	540193 (1.00)	0 (763506.00)	0 (0.00)
<i>icodel14 cur</i>	111180 (1.01)	1683 (73.36)	5 (1.00)	540193 (1.00)	4 (190877.00)	0 (0.00)
<i>cos3d cur</i>	104124 (1.07)	7800 (15.83)	5 (1.00)	491709 (1.10)	58256 (13.11)	0 (0.00)
<i>layv4</i> 949	104124 (1.00)	0 (123463.00)	5 (1.00)	491709 (1.00)	0 (763506.00)	0 (0.00)
<i>zfrf cur</i>	97709 (1.07)	13238 (9.33)	5 (1.00)	491386 (1.00)	828 (922.11)	0 (0.00)
<i>zutout cur</i>	97663 (1.00)	362 (341.06)	5 (1.00)	491085 (1.00)	592 (1289.71)	0 (0.00)
FIDUCIAL 949	97663 (1.00)	15446 (7.99)	5 (1.00)	491085 (1.00)	59345 (12.87)	0 (0.00)
<i>utqual</i> 949	75061 (1.30)	35084 (3.52)	5 (1.00)	407397 (1.21)	153963 (4.96)	0 (0.00)
<i>rsdedxcl</i> 949	75061 (1.00)	0 (123463.00)	5 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	75061 (1.00)	0 (123463.00)	5 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	75061 (1.00)	0 (123463.00)	5 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>tgktim off</i>	75061 (1.00)	0 (123463.00)	5 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rngmom cur</i>	75061 (1.00)	11521 (10.72)	5 (1.00)	407397 (1.00)	223313 (3.42)	0 (0.00)
<i>prrf1</i> 949	66023 (1.14)	18246 (6.77)	5 (1.00)	396237 (1.03)	24547 (31.10)	0 (0.00)
<i>prrfz</i> 949	57193 (1.15)	20553 (6.01)	5 (1.00)	374122 (1.06)	51815 (14.74)	0 (0.00)
PRRF 949	57193 (1.00)	34294 (3.60)	5 (1.00)	374122 (1.00)	73789 (10.35)	0 (0.00)
<i>rtghi cur</i>	57054 (1.00)	503 (245.45)	5 (1.00)	373591 (1.00)	2460 (310.37)	0 (0.00)
<i>etghi cur</i>	55076 (1.04)	3869 (31.91)	5 (1.00)	366275 (1.02)	18464 (41.35)	0 (0.00)
<i>tgdedx1 cur</i>	49103 (1.12)	13415 (9.20)	5 (1.00)	285444 (1.28)	136457 (5.60)	0 (0.00)
<i>tgdedx2 cur</i>	44607 (1.10)	11102 (11.12)	5 (1.00)	259441 (1.10)	63770 (11.97)	0 (0.00)
tgdedx <i>cur</i>	44607 (1.00)	26918 (4.59)	5 (1.00)	259441 (1.00)	210833 (3.62)	0 (0.00)
<i>tglike1 cur</i>	41260 (1.08)	14073 (8.77)	5 (1.00)	236057 (1.10)	108578 (7.03)	0 (0.00)
<i>tglike2 cur</i>	39713 (1.04)	11339 (10.89)	5 (1.00)	222936 (1.06)	97907 (7.80)	0 (0.00)
TGLIKE <i>cur</i>	39713 (1.00)	18814 (6.56)	5 (1.00)	222936 (1.00)	147246 (5.19)	0 (0.00)
<i>tgdb4 cur</i>	36845 (1.08)	9772 (12.63)	5 (1.00)	206294 (1.08)	60906 (12.54)	0 (0.00)
<i>tgdb4tip cur</i>	27020 (1.36)	37628 (3.28)	5 (1.00)	154290 (1.34)	208039 (3.67)	0 (0.00)
<i>tgdvxtip cur</i>	23018 (1.17)	24915 (4.96)	5 (1.00)	132660 (1.16)	125191 (6.10)	0 (0.00)
<i>tgdvxpi cur</i>	20452 (1.13)	20592 (6.00)	5 (1.00)	123497 (1.07)	86718 (8.80)	0 (0.00)
TGB4 <i>cur</i>	20452 (1.00)	60906 (2.03)	5 (1.00)	123497 (1.00)	314260 (2.43)	0 (0.00)
<i>pigap cur</i>	19297 (1.06)	10166 (12.14)	5 (1.00)	116777 (1.06)	68694 (11.11)	0 (0.00)
KIN 949	19297 (1.00)	104166 (1.19)	5 (1.00)	116777 (1.00)	646729 (1.18)	0 (0.00)
<i>tgpv cur</i>	14701 (1.31)	41416 (2.98)	5 (1.00)	85384 (1.37)	229186 (3.33)	0 (0.00)
<i>bwtrs cur</i>	12769 (1.15)	42904 (2.88)	5 (1.00)	75772 (1.13)	176329 (4.33)	0 (0.00)
<i>b4trs cur</i>	11647 (1.10)	40683 (3.03)	5 (1.00)	68939 (1.10)	170529 (4.48)	0 (0.00)
<i>b4ccd cur</i>	11639 (1.00)	896 (137.79)	5 (1.00)	68468 (1.01)	9165 (83.31)	0 (0.00)
<i>tgqualt</i> 949	11639 (1.00)	0 (123463.00)	5 (1.00)	62822 (1.09)	54567 (13.99)	0 (0.00)
<i>timcon cur</i>	11598 (1.00)	1228 (100.54)	5 (1.00)	62420 (1.01)	8971 (85.11)	0 (0.00)
<i>epitg</i> 949	11589 (1.00)	6472 (19.08)	5 (1.00)	62350 (1.00)	19737 (38.68)	0 (0.00)
<i>tger</i> 949	11582 (1.00)	1248 (98.93)	5 (1.00)	62325 (1.00)	20789 (36.73)	0 (0.00)
<i>targf</i> 949	11189 (1.04)	23330 (5.29)	5 (1.00)	59585 (1.05)	105229 (7.26)	0 (0.00)
<i>ticcon</i> 949	11189 (1.00)	8 (15432.90)	5 (1.00)	59584 (1.00)	117 (6525.69)	0 (0.00)

continued on next p

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>dtgttp</i> 949	11186 (1.00)	63 (1959.73)	5 (1.00)	59584 (1.00)	653 (1169.23)	0 (0.00)
<i>rtdif</i> 949	11104 (1.01)	3513 (35.14)	5 (1.00)	58648 (1.02)	17941 (42.56)	0 (0.00)
<i>epimaxk</i> 949	10762 (1.03)	13036 (9.47)	5 (1.00)	57529 (1.02)	46984 (16.25)	0 (0.00)
<i>drp</i> 949	10736 (1.00)	859 (143.73)	5 (1.00)	57136 (1.01)	13627 (56.03)	0 (0.00)
<i>phivtx1</i> 949	8705 (1.23)	26609 (4.64)	5 (1.00)	48421 (1.18)	168683 (4.53)	0 (0.00)
<i>iccon</i> 949	8435 (1.03)	4606 (26.80)	5 (1.00)	47335 (1.02)	32211 (23.70)	0 (0.00)
<i>opsveto</i> 949	7224 (1.17)	33039 (3.74)	5 (1.00)	39658 (1.19)	233980 (3.26)	0 (0.00)
<i>kic</i> 949	5724 (1.26)	29209 (4.23)	5 (1.00)	34870 (1.14)	153781 (4.96)	0 (0.00)
<i>tggeo cur</i>	5041 (1.14)	48749 (2.53)	5 (1.00)	29031 (1.20)	319091 (2.39)	0 (0.00)
<i>tdedge</i> 949	4832 (1.04)	20060 (6.15)	5 (1.00)	28133 (1.03)	108151 (7.06)	0 (0.00)
<i>tgzfool</i> 949	4832 (1.00)	963 (128.21)	5 (1.00)	28119 (1.00)	12333 (61.91)	0 (0.00)
<i>upvtrs cur</i>	4178 (1.16)	14831 (8.32)	5 (1.00)	25202 (1.12)	60718 (12.57)	0 (0.00)
<i>rvtrs cur</i>	4160 (1.00)	1942 (63.58)	5 (1.00)	25101 (1.00)	15533 (49.15)	0 (0.00)
<i>tgtcon cur</i>	4105 (1.01)	6850 (18.02)	5 (1.00)	22417 (1.12)	60727 (12.57)	0 (0.00)
<i>b4etcon cur</i>	4000 (1.03)	3834 (32.20)	5 (1.00)	21921 (1.02)	23606 (32.34)	0 (0.00)
<i>b4ekz cur</i>	559 (7.16)	93340 (1.32)	6 (1.20)	7366 (2.98)	521719 (1.46)	0 (0.00)
<i>b4ekzic cur</i>	559 (1.00)	8890 (13.89)	5 (1.00)	7366 (1.00)	78714 (9.70)	0 (0.00)
<i>b4tim off</i>	559 (1.00)	0 (123463.00)	5 (1.00)	4869 (1.51)	395143 (1.93)	0 (0.00)
<i>tgktim off</i>	559 (1.00)	0 (123463.00)	5 (1.00)	4869 (1.00)	0 (763506.00)	0 (0.00)
<i>tgenr off</i>	559 (1.00)	0 (123463.00)	5 (1.00)	4824 (1.01)	92823 (8.23)	0 (0.00)
<i>chi567 off</i>	559 (1.00)	0 (123463.00)	5 (1.00)	3063 (1.57)	511542 (1.49)	0 (0.00)
<i>npitg</i>	557 (1.00)	3645 (33.87)	5 (1.00)	3063 (1.00)	54567 (13.99)	0 (0.00)
<i>verrng off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	2614 (1.17)	321757 (2.37)	0 (0.00)
<i>chi5max off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	2526 (1.03)	225902 (3.38)	0 (0.00)
<i>angli off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	2519 (1.00)	53576 (14.25)	0 (0.00)
<i>ALLKfit off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	2069 (1.22)	291298 (2.62)	0 (0.00)
<i>tpics off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	1884 (1.10)	98026 (7.79)	0 (0.00)
<i>epionk off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	1854 (1.02)	21959 (34.77)	0 (0.00)
<i>ccdpu off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	259 (7.16)	542535 (1.41)	0 (0.00)
<i>timkf off</i>	557 (1.00)	0 (123463.00)	5 (1.00)	181 (1.43)	553685 (1.38)	0 (0.00)
DELCO 949	555 (1.00)	36325 (3.40)	5 (1.00)	48 (3.77)	219266 (3.48)	5 (5.00)
<i>cpitrs cur</i>	92 (6.03)	100085 (1.23)	136 (27.20)	48 (1.00)	318061 (2.40)	0 (0.00)
<i>cpitail cur</i>	92 (1.00)	18608 (6.63)	5 (1.00)	48 (1.00)	56586 (13.49)	0 (0.00)
<i>b4dedx cur</i>	86 (1.07)	53193 (2.32)	5 (1.00)	48 (1.00)	212707 (3.59)	0 (0.00)
<i>cktrs cur</i>	14 (6.14)	19479 (6.34)	13 (2.60)	17 (2.82)	267206 (2.86)	1 (1.00)
<i>cktail cur</i>	8 (1.75)	14913 (8.28)	8 (1.60)	10 (1.70)	170693 (4.47)	0 (0.00)
<i>PV cur</i>	7 (1.14)	67423 (1.83)	5 (1.00)	0 (10.00)	433883 (1.76)	5 (5.00)
<i>pi flg cur</i>	7 (1.00)	2869 (43.03)	5 (1.00)	0 (0.00)	25958 (29.41)	0 (0.00)
<i>ev502 cur</i>	6 (1.17)	29072 (4.25)	5 (1.00)	0 (0.00)	218072 (3.50)	0 (0.00)
<i>elveto cur</i>	5 (1.20)	19129 (6.45)	5 (1.00)	0 (0.00)	184712 (4.13)	0 (0.00)
<i>tdfool cur</i>	5 (1.00)	9525 (12.96)	5 (1.00)	0 (0.00)	134180 (5.69)	0 (0.00)
<i>tdvarnn02 cur</i>	5 (1.00)	32692 (3.78)	5 (1.00)	0 (0.00)	283368 (2.69)	0 (0.00)
TD cur	5 (1.00)	57912 (2.13)	5 (1.00)	0 (0.00)	433258 (1.76)	0 (0.00)
Total Rej.		111.00			48.00	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	24 (1.00)	763506 (0.00)	0 (763506.00)	5 (1.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	24 (1.00)	763506 (1.00)	0 (763506.00)	5 (1.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	24 (1.00)	763506 (1.00)	0 (763506.00)	5 (1.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	24 (1.00)	763506 (1.00)	0 (763506.00)	5 (1.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	24 (1.00)	540193 (1.41)	223313 (3.42)	5 (1.00)
<i>BOX</i> 949	111942 (1.00)	0 (123463.00)	24 (1.00)	540193 (1.00)	0 (763506.00)	5 (1.00)
<i>icodel14 cur</i>	111180 (1.01)	1683 (73.36)	24 (1.00)	540193 (1.00)	4 (190877.00)	5 (1.00)
<i>cos3d cur</i>	104124 (1.07)	7800 (15.83)	24 (1.00)	491709 (1.10)	58256 (13.11)	5 (1.00)
<i>layv4</i> 949	104124 (1.00)	0 (123463.00)	24 (1.00)	491709 (1.00)	0 (763506.00)	5 (1.00)
<i>zfrf cur</i>	97709 (1.07)	13238 (9.33)	24 (1.00)	491386 (1.00)	828 (922.11)	5 (1.00)
<i>zutout cur</i>	97663 (1.00)	362 (341.06)	24 (1.00)	491085 (1.00)	592 (1289.71)	5 (1.00)
FIDUCIAL 949	97663 (1.00)	15446 (7.99)	24 (1.00)	491085 (1.00)	59345 (12.87)	5 (1.00)
<i>utqual</i> 949	75061 (1.30)	35084 (3.52)	24 (1.00)	407397 (1.21)	153963 (4.96)	5 (1.00)
<i>rsdedxcl</i> 949	75061 (1.00)	0 (123463.00)	24 (1.00)	407397 (1.00)	0 (763506.00)	5 (1.00)
<i>rsdedxmax cur</i>	75061 (1.00)	0 (123463.00)	24 (1.00)	407397 (1.00)	0 (763506.00)	5 (1.00)
<i>rslike cur</i>	75061 (1.00)	0 (123463.00)	24 (1.00)	407397 (1.00)	0 (763506.00)	5 (1.00)
<i>tgktim off</i>	75061 (1.00)	0 (123463.00)	24 (1.00)	407397 (1.00)	0 (763506.00)	5 (1.00)
<i>rngmom cur</i>	75061 (1.00)	11521 (10.72)	24 (1.00)	407397 (1.00)	223313 (3.42)	5 (1.00)
<i>prrf1</i> 949	66023 (1.14)	18246 (6.77)	24 (1.00)	396237 (1.03)	24547 (31.10)	5 (1.00)
<i>prrfz</i> 949	57193 (1.15)	20553 (6.01)	24 (1.00)	374122 (1.06)	51815 (14.74)	5 (1.00)
PRRF 949	57193 (1.00)	34294 (3.60)	24 (1.00)	374122 (1.00)	73789 (10.35)	5 (1.00)
<i>rtghi cur</i>	57054 (1.00)	503 (245.45)	24 (1.00)	373591 (1.00)	2460 (310.37)	5 (1.00)
<i>etghi cur</i>	55076 (1.04)	3869 (31.91)	24 (1.00)	366275 (1.02)	18464 (41.35)	5 (1.00)
<i>tgdedx1 cur</i>	49103 (1.12)	13415 (9.20)	24 (1.00)	285444 (1.28)	136457 (5.60)	5 (1.00)
<i>tgdedx2 cur</i>	44607 (1.10)	11102 (11.12)	24 (1.00)	259441 (1.10)	63770 (11.97)	5 (1.00)
tgdedx <i>cur</i>	44607 (1.00)	26918 (4.59)	24 (1.00)	259441 (1.00)	210833 (3.62)	5 (1.00)
<i>tglike1 cur</i>	41260 (1.08)	14073 (8.77)	24 (1.00)	236057 (1.10)	108578 (7.03)	5 (1.00)
<i>tglike2 cur</i>	39713 (1.04)	11339 (10.89)	24 (1.00)	222936 (1.06)	97907 (7.80)	5 (1.00)
TGLIKE <i>cur</i>	39713 (1.00)	18814 (6.56)	24 (1.00)	222936 (1.00)	147246 (5.19)	5 (1.00)
<i>tgdb4 cur</i>	36845 (1.08)	9772 (12.63)	24 (1.00)	206294 (1.08)	60906 (12.54)	5 (1.00)
<i>tgdb4tip cur</i>	27020 (1.36)	37628 (3.28)	24 (1.00)	154290 (1.34)	208039 (3.67)	5 (1.00)
<i>tgdvxtip cur</i>	23018 (1.17)	24915 (4.96)	24 (1.00)	132660 (1.16)	125191 (6.10)	5 (1.00)
<i>tgdvxpi cur</i>	20452 (1.13)	20592 (6.00)	24 (1.00)	123497 (1.07)	86718 (8.80)	5 (1.00)
TGB4 <i>cur</i>	20452 (1.00)	60906 (2.03)	24 (1.00)	123497 (1.00)	314260 (2.43)	5 (1.00)
<i>pigap cur</i>	19297 (1.06)	10166 (12.14)	24 (1.00)	116777 (1.06)	68694 (11.11)	5 (1.00)
KIN 949	19297 (1.00)	104166 (1.19)	24 (1.00)	116777 (1.00)	646729 (1.18)	5 (1.00)
<i>tgpv cur</i>	14701 (1.31)	41416 (2.98)	24 (1.00)	85384 (1.37)	229186 (3.33)	5 (1.00)
<i>bwtrs cur</i>	12769 (1.15)	42904 (2.88)	26 (1.08)	75772 (1.13)	176329 (4.33)	5 (1.00)
<i>b4trs cur</i>	11647 (1.10)	40683 (3.03)	27 (1.12)	68939 (1.10)	170529 (4.48)	5 (1.00)
<i>b4ccd cur</i>	11639 (1.00)	896 (137.79)	24 (1.00)	68468 (1.01)	9165 (83.31)	5 (1.00)
<i>tgqualt</i> 949	11639 (1.00)	0 (123463.00)	24 (1.00)	62822 (1.09)	54567 (13.99)	5 (1.00)
<i>timcon cur</i>	11598 (1.00)	1228 (100.54)	24 (1.00)	62420 (1.01)	8971 (85.11)	5 (1.00)
<i>epitg</i> 949	11589 (1.00)	6472 (19.08)	24 (1.00)	62350 (1.00)	19737 (38.68)	5 (1.00)
<i>tger</i> 949	11582 (1.00)	1248 (98.93)	24 (1.00)	62325 (1.00)	20789 (36.73)	5 (1.00)
<i>targf</i> 949	11189 (1.04)	23330 (5.29)	24 (1.00)	59585 (1.05)	105229 (7.26)	5 (1.00)
<i>ticcon</i> 949	11189 (1.00)	8 (15432.90)	24 (1.00)	59584 (1.00)	117 (6525.69)	5 (1.00)

continued on next p

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>dtgttp</i> 949	11186 (1.00)	63 (1959.73)	24 (1.00)	59584 (1.00)	653 (1169.23)	5 (1.00)
<i>rtdif</i> 949	11104 (1.01)	3513 (35.14)	24 (1.00)	58648 (1.02)	17941 (42.56)	5 (1.00)
<i>epimaxk</i> 949	10762 (1.03)	13036 (9.47)	25 (1.04)	57529 (1.02)	46984 (16.25)	5 (1.00)
<i>drp</i> 949	10736 (1.00)	859 (143.73)	24 (1.00)	57136 (1.01)	13627 (56.03)	5 (1.00)
<i>phivtx1</i> 949	8705 (1.23)	26609 (4.64)	31 (1.29)	48421 (1.18)	168683 (4.53)	5 (1.00)
<i>aiccon</i> 949	8435 (1.03)	4606 (26.80)	28 (1.17)	47335 (1.02)	32211 (23.70)	5 (1.00)
<i>opsveto</i> 949	7224 (1.17)	33039 (3.74)	31 (1.29)	39658 (1.19)	233980 (3.26)	6 (1.20)
<i>kic</i> 949	5724 (1.26)	29209 (4.23)	24 (1.00)	34870 (1.14)	153781 (4.96)	5 (1.00)
<i>tggeo cur</i>	5041 (1.14)	48749 (2.53)	28 (1.17)	29031 (1.20)	319091 (2.39)	6 (1.20)
<i>tdedge</i> 949	4832 (1.04)	20060 (6.15)	24 (1.00)	28133 (1.03)	108151 (7.06)	5 (1.00)
<i>tgzfool</i> 949	4832 (1.00)	963 (128.21)	24 (1.00)	28119 (1.00)	12333 (61.91)	5 (1.00)
<i>upvtrs cur</i>	4178 (1.16)	14831 (8.32)	25 (1.04)	25202 (1.12)	60718 (12.57)	5 (1.00)
<i>rvtrs cur</i>	4160 (1.00)	1942 (63.58)	24 (1.00)	25101 (1.00)	15533 (49.15)	5 (1.00)
<i>tgtcon cur</i>	4105 (1.01)	6850 (18.02)	25 (1.04)	22417 (1.12)	60727 (12.57)	5 (1.00)
<i>b4etcon cur</i>	4000 (1.03)	3834 (32.20)	24 (1.00)	21921 (1.02)	23606 (32.34)	5 (1.00)
<i>b4ekz cur</i>	559 (7.16)	93340 (1.32)	45 (1.88)	7366 (2.98)	521719 (1.46)	12 (2.40)
<i>b4ekzic cur</i>	559 (1.00)	8890 (13.89)	24 (1.00)	7366 (1.00)	78714 (9.70)	5 (1.00)
<i>b4tim off</i>	559 (1.00)	0 (123463.00)	24 (1.00)	4869 (1.51)	395143 (1.93)	5 (1.00)
<i>tgktim off</i>	559 (1.00)	0 (123463.00)	24 (1.00)	4869 (1.00)	0 (763506.00)	5 (1.00)
<i>tgenr off</i>	559 (1.00)	0 (123463.00)	24 (1.00)	4824 (1.01)	92823 (8.23)	5 (1.00)
<i>chi567 off</i>	559 (1.00)	0 (123463.00)	24 (1.00)	3063 (1.57)	511542 (1.49)	5 (1.00)
<i>npitg</i>	557 (1.00)	3645 (33.87)	24 (1.00)	3063 (1.00)	54567 (13.99)	5 (1.00)
<i>verrng off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	2614 (1.17)	321757 (2.37)	8 (1.60)
<i>chi5max off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	2526 (1.03)	225902 (3.38)	5 (1.00)
<i>angli off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	2519 (1.00)	53576 (14.25)	5 (1.00)
<i>ALLKfit off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	2069 (1.22)	291298 (2.62)	11 (2.20)
<i>tpics off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	1884 (1.10)	98026 (7.79)	6 (1.20)
<i>epionk off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	1854 (1.02)	21959 (34.77)	5 (1.00)
<i>ccdpu off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	259 (7.16)	542535 (1.41)	27 (5.40)
<i>timkf off</i>	557 (1.00)	0 (123463.00)	24 (1.00)	181 (1.43)	553685 (1.38)	7 (1.40)
<i>DELCO</i> 949	555 (1.00)	36325 (3.40)	24 (1.00)	48 (3.77)	219266 (3.48)	5 (1.00)
<i>cpitrs cur</i>	92 (6.03)	100085 (1.23)	31 (1.29)	48 (1.00)	318061 (2.40)	5 (1.00)
<i>cpitail cur</i>	92 (1.00)	18608 (6.63)	24 (1.00)	48 (1.00)	56586 (13.49)	5 (1.00)
<i>b4dedx cur</i>	86 (1.07)	53193 (2.32)	26 (1.08)	48 (1.00)	212707 (3.59)	5 (1.00)
<i>cktrs · cktail</i>	78 (1.10)	99959 (1.24)	29 (1.21)	38 (1.26)	462111 (1.65)	5 (1.00)
<i>PV cur</i>	37 (2.11)	67423 (1.83)	48 (2.00)	7 (5.43)	433883 (1.76)	25 (5.00)
<i>pi flg cur</i>	37 (1.00)	2869 (43.03)	24 (1.00)	7 (1.00)	25958 (29.41)	5 (1.00)
<i>ev502 cur</i>	29 (1.28)	29072 (4.25)	24 (1.00)	5 (1.40)	218072 (3.50)	5 (1.00)
<i>elveto cur</i>	28 (1.04)	19129 (6.45)	24 (1.00)	5 (1.00)	184712 (4.13)	5 (1.00)
<i>tdfool cur</i>	28 (1.00)	9525 (12.96)	24 (1.00)	5 (1.00)	134180 (5.69)	5 (1.00)
<i>tdvarnn02 cur</i>	24 (1.17)	32692 (3.78)	24 (1.00)	5 (1.00)	283368 (2.69)	5 (1.00)
TD cur	24 (1.00)	57912 (2.13)	24 (1.00)	5 (1.00)	433258 (1.76)	5 (1.00)
Total Rej.		3.25			7.60	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	3 (1.00)	763506 (0.00)	0 (763506.00)	10 (1.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	3 (1.00)	763506 (1.00)	0 (763506.00)	10 (1.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	3 (1.00)	763506 (1.00)	0 (763506.00)	10 (1.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	3 (1.00)	763506 (1.00)	0 (763506.00)	10 (1.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	3 (1.00)	540193 (1.41)	223313 (3.42)	10 (1.00)
<i>BOX</i> 949	111942 (1.00)	0 (123463.00)	3 (1.00)	540193 (1.00)	0 (763506.00)	10 (1.00)
<i>icodel14 cur</i>	111180 (1.01)	1683 (73.36)	3 (1.00)	540193 (1.00)	4 (190877.00)	10 (1.00)
<i>cos3d cur</i>	104124 (1.07)	7800 (15.83)	3 (1.00)	491709 (1.10)	58256 (13.11)	10 (1.00)
<i>layv4</i> 949	104124 (1.00)	0 (123463.00)	3 (1.00)	491709 (1.00)	0 (763506.00)	10 (1.00)
<i>zfrf cur</i>	97709 (1.07)	13238 (9.33)	3 (1.00)	491386 (1.00)	828 (922.11)	10 (1.00)
<i>zutout cur</i>	97663 (1.00)	362 (341.06)	3 (1.00)	491085 (1.00)	592 (1289.71)	10 (1.00)
FIDUCIAL 949	97663 (1.00)	15446 (7.99)	3 (1.00)	491085 (1.00)	59345 (12.87)	10 (1.00)
<i>utqual</i> 949	75061 (1.30)	35084 (3.52)	3 (1.00)	407397 (1.21)	153963 (4.96)	10 (1.00)
<i>rsdedxcl</i> 949	75061 (1.00)	0 (123463.00)	3 (1.00)	407397 (1.00)	0 (763506.00)	10 (1.00)
<i>rsdedxmax cur</i>	75061 (1.00)	0 (123463.00)	3 (1.00)	407397 (1.00)	0 (763506.00)	10 (1.00)
<i>rslike cur</i>	75061 (1.00)	0 (123463.00)	3 (1.00)	407397 (1.00)	0 (763506.00)	10 (1.00)
<i>tgktim off</i>	75061 (1.00)	0 (123463.00)	3 (1.00)	407397 (1.00)	0 (763506.00)	10 (1.00)
<i>rngmom cur</i>	75061 (1.00)	11521 (10.72)	3 (1.00)	407397 (1.00)	223313 (3.42)	10 (1.00)
<i>prrf1</i> 949	66023 (1.14)	18246 (6.77)	3 (1.00)	396237 (1.03)	24547 (31.10)	10 (1.00)
<i>prrfz</i> 949	57193 (1.15)	20553 (6.01)	3 (1.00)	374122 (1.06)	51815 (14.74)	10 (1.00)
PRRF 949	57193 (1.00)	34294 (3.60)	3 (1.00)	374122 (1.00)	73789 (10.35)	10 (1.00)
<i>rtghi cur</i>	57054 (1.00)	503 (245.45)	3 (1.00)	373591 (1.00)	2460 (310.37)	10 (1.00)
<i>etghi cur</i>	55076 (1.04)	3869 (31.91)	3 (1.00)	366275 (1.02)	18464 (41.35)	10 (1.00)
<i>tgdedx1 cur</i>	49103 (1.12)	13415 (9.20)	3 (1.00)	285444 (1.28)	136457 (5.60)	10 (1.00)
<i>tgdedx2 cur</i>	44607 (1.10)	11102 (11.12)	3 (1.00)	259441 (1.10)	63770 (11.97)	10 (1.00)
tgdedx <i>cur</i>	44607 (1.00)	26918 (4.59)	3 (1.00)	259441 (1.00)	210833 (3.62)	10 (1.00)
<i>tglike1 cur</i>	41260 (1.08)	14073 (8.77)	3 (1.00)	236057 (1.10)	108578 (7.03)	10 (1.00)
<i>tglike2 cur</i>	39713 (1.04)	11339 (10.89)	3 (1.00)	222936 (1.06)	97907 (7.80)	10 (1.00)
TGLIKE <i>cur</i>	39713 (1.00)	18814 (6.56)	3 (1.00)	222936 (1.00)	147246 (5.19)	10 (1.00)
<i>tgdb4 cur</i>	36845 (1.08)	9772 (12.63)	3 (1.00)	206294 (1.08)	60906 (12.54)	10 (1.00)
<i>tgdb4tip cur</i>	27020 (1.36)	37628 (3.28)	3 (1.00)	154290 (1.34)	208039 (3.67)	10 (1.00)
<i>tgdvxtip cur</i>	23018 (1.17)	24915 (4.96)	3 (1.00)	132660 (1.16)	125191 (6.10)	10 (1.00)
<i>tgdvxpi cur</i>	20452 (1.13)	20592 (6.00)	3 (1.00)	123497 (1.07)	86718 (8.80)	10 (1.00)
TGB4 <i>cur</i>	20452 (1.00)	60906 (2.03)	3 (1.00)	123497 (1.00)	314260 (2.43)	10 (1.00)
<i>pigap cur</i>	19297 (1.06)	10166 (12.14)	3 (1.00)	116777 (1.06)	68694 (11.11)	10 (1.00)
KIN 949	19297 (1.00)	104166 (1.19)	3 (1.00)	116777 (1.00)	646729 (1.18)	10 (1.00)
<i>tgpv cur</i>	14701 (1.31)	41416 (2.98)	3 (1.00)	85384 (1.37)	229186 (3.33)	10 (1.00)
<i>bwtrs cur</i>	12769 (1.15)	42904 (2.88)	4 (1.33)	75772 (1.13)	176329 (4.33)	11 (1.00)
<i>b4trs cur</i>	11647 (1.10)	40683 (3.03)	3 (1.00)	68939 (1.10)	170529 (4.48)	10 (1.00)
<i>b4ccd cur</i>	11639 (1.00)	896 (137.79)	3 (1.00)	68468 (1.01)	9165 (83.31)	10 (1.00)
<i>tgqualt</i> 949	11639 (1.00)	0 (123463.00)	3 (1.00)	62822 (1.09)	54567 (13.99)	10 (1.00)
<i>timcon cur</i>	11598 (1.00)	1228 (100.54)	3 (1.00)	62420 (1.01)	8971 (85.11)	10 (1.00)
<i>epitg</i> 949	11589 (1.00)	6472 (19.08)	3 (1.00)	62350 (1.00)	19737 (38.68)	10 (1.00)
<i>tger</i> 949	11582 (1.00)	1248 (98.93)	3 (1.00)	62325 (1.00)	20789 (36.73)	10 (1.00)
<i>targf</i> 949	11189 (1.04)	23330 (5.29)	3 (1.00)	59585 (1.05)	105229 (7.26)	10 (1.00)
<i>ticcon</i> 949	11189 (1.00)	8 (15432.90)	3 (1.00)	59584 (1.00)	117 (6525.69)	10 (1.00)

continued on next p

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>dtgttp</i> 949	11186 (1.00)	63 (1959.73)	3 (1.00)	59584 (1.00)	653 (1169.23)	10 (1.00)
<i>rtdif</i> 949	11104 (1.01)	3513 (35.14)	3 (1.00)	58648 (1.02)	17941 (42.56)	10 (1.00)
<i>epimaxk</i> 949	10762 (1.03)	13036 (9.47)	3 (1.00)	57529 (1.02)	46984 (16.25)	10 (1.00)
<i>drp</i> 949	10736 (1.00)	859 (143.73)	3 (1.00)	57136 (1.01)	13627 (56.03)	10 (1.00)
<i>phivtx1</i> 949	8705 (1.23)	26609 (4.64)	4 (1.33)	48421 (1.18)	168683 (4.53)	12 (1.20)
<i>iccon</i> 949	8435 (1.03)	4606 (26.80)	3 (1.00)	47335 (1.02)	32211 (23.70)	10 (1.00)
<i>opsveto</i> 949	7224 (1.17)	33039 (3.74)	3 (1.00)	39658 (1.19)	233980 (3.26)	12 (1.20)
<i>kic</i> 949	5724 (1.26)	29209 (4.23)	3 (1.00)	34870 (1.14)	153781 (4.96)	10 (1.00)
<i>tggeo cur</i>	5041 (1.14)	48749 (2.53)	4 (1.33)	29031 (1.20)	319091 (2.39)	11 (1.10)
<i>tdedge</i> 949	4832 (1.04)	20060 (6.15)	3 (1.00)	28133 (1.03)	108151 (7.06)	11 (1.10)
<i>tgzfool</i> 949	4832 (1.00)	963 (128.21)	3 (1.00)	28119 (1.00)	12333 (61.91)	10 (1.00)
<i>upvtrs cur</i>	4178 (1.16)	14831 (8.32)	3 (1.00)	25202 (1.12)	60718 (12.57)	11 (1.10)
<i>rvtrs cur</i>	4160 (1.00)	1942 (63.58)	3 (1.00)	25101 (1.00)	15533 (49.15)	10 (1.00)
<i>tgtcon cur</i>	4105 (1.01)	6850 (18.02)	3 (1.00)	22417 (1.12)	60727 (12.57)	10 (1.00)
<i>b4etcon cur</i>	4000 (1.03)	3834 (32.20)	5 (1.67)	21921 (1.02)	23606 (32.34)	11 (1.10)
<i>b4ekz cur</i>	559 (7.16)	93340 (1.32)	6 (2.00)	7366 (2.98)	521719 (1.46)	11 (1.10)
<i>b4ekzic cur</i>	559 (1.00)	8890 (13.89)	3 (1.00)	7366 (1.00)	78714 (9.70)	10 (1.00)
<i>b4tim off</i>	559 (1.00)	0 (123463.00)	3 (1.00)	4869 (1.51)	395143 (1.93)	10 (1.00)
<i>tgktim off</i>	559 (1.00)	0 (123463.00)	3 (1.00)	4869 (1.00)	0 (763506.00)	10 (1.00)
<i>tgenr off</i>	559 (1.00)	0 (123463.00)	3 (1.00)	4824 (1.01)	92823 (8.23)	10 (1.00)
<i>chi567 off</i>	559 (1.00)	0 (123463.00)	3 (1.00)	3063 (1.57)	511542 (1.49)	13 (1.30)
<i>npitg</i>	557 (1.00)	3645 (33.87)	3 (1.00)	3063 (1.00)	54567 (13.99)	10 (1.00)
<i>verrng off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	2614 (1.17)	321757 (2.37)	11 (1.10)
<i>chi5max off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	2526 (1.03)	225902 (3.38)	10 (1.00)
<i>angli off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	2519 (1.00)	53576 (14.25)	10 (1.00)
<i>ALLKfit off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	2069 (1.22)	291298 (2.62)	10 (1.00)
<i>tpics off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	1884 (1.10)	98026 (7.79)	10 (1.00)
<i>epionk off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	1854 (1.02)	21959 (34.77)	10 (1.00)
<i>ccdpu off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	259 (7.16)	542535 (1.41)	80 (8.00)
<i>timkf off</i>	557 (1.00)	0 (123463.00)	3 (1.00)	181 (1.43)	553685 (1.38)	23 (2.30)
<i>DELCO</i> 949	555 (1.00)	36325 (3.40)	5 (1.67)	48 (3.77)	219266 (3.48)	133 (13.30)
<i>cpitrs cur</i>	92 (6.03)	100085 (1.23)	142 (47.33)	48 (1.00)	318061 (2.40)	10 (1.00)
<i>cpitail cur</i>	92 (1.00)	18608 (6.63)	3 (1.00)	48 (1.00)	56586 (13.49)	10 (1.00)
<i>b4dedx cur</i>	86 (1.07)	53193 (2.32)	4 (1.33)	48 (1.00)	212707 (3.59)	10 (1.00)
<i>PV · TD</i>	57 (1.51)	28801 (4.29)	8 (2.67)	43 (1.12)	131266 (5.82)	10 (1.00)
<i>cktrs cur</i>	6 (9.50)	19479 (6.34)	27 (9.00)	17 (2.53)	267206 (2.86)	16 (1.60)
<i>cktail cur</i>	3 (2.00)	14913 (8.28)	6 (2.00)	10 (1.70)	170693 (4.47)	17 (1.70)
Total Rej.		19.00			4.30	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	158 (1.00)	763506 (0.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	158 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	158 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	158 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	158 (1.00)	540193 (1.41)	223313 (3.42)	0 (0.00)
<i>BOX</i> 949	111942 (1.00)	0 (123463.00)	158 (1.00)	540193 (1.00)	0 (763506.00)	0 (0.00)
<i>icodel14 cur</i>	111180 (1.01)	1683 (73.36)	158 (1.00)	540193 (1.00)	4 (190877.00)	0 (0.00)
<i>cos3d cur</i>	104124 (1.07)	7800 (15.83)	158 (1.00)	491709 (1.10)	58256 (13.11)	0 (0.00)
<i>layv4</i> 949	104124 (1.00)	0 (123463.00)	158 (1.00)	491709 (1.00)	0 (763506.00)	0 (0.00)
<i>zfrf cur</i>	97709 (1.07)	13238 (9.33)	158 (1.00)	491386 (1.00)	828 (922.11)	0 (0.00)
<i>zutout cur</i>	97663 (1.00)	362 (341.06)	158 (1.00)	491085 (1.00)	592 (1289.71)	0 (0.00)
FIDUCIAL 949	97663 (1.00)	15446 (7.99)	158 (1.00)	491085 (1.00)	59345 (12.87)	0 (0.00)
<i>utqual</i> 949	75061 (1.30)	35084 (3.52)	158 (1.00)	407397 (1.21)	153963 (4.96)	0 (0.00)
<i>rsdedxcl</i> 949	75061 (1.00)	0 (123463.00)	158 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	75061 (1.00)	0 (123463.00)	158 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	75061 (1.00)	0 (123463.00)	158 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>tgktim off</i>	75061 (1.00)	0 (123463.00)	158 (1.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rngmom cur</i>	75061 (1.00)	11521 (10.72)	158 (1.00)	407397 (1.00)	223313 (3.42)	0 (0.00)
<i>prrf1</i> 949	66023 (1.14)	18246 (6.77)	158 (1.00)	396237 (1.03)	24547 (31.10)	0 (0.00)
<i>prrfz</i> 949	57193 (1.15)	20553 (6.01)	158 (1.00)	374122 (1.06)	51815 (14.74)	0 (0.00)
PRRF 949	57193 (1.00)	34294 (3.60)	158 (1.00)	374122 (1.00)	73789 (10.35)	0 (0.00)
<i>rtghi cur</i>	57054 (1.00)	503 (245.45)	158 (1.00)	373591 (1.00)	2460 (310.37)	0 (0.00)
<i>etghi cur</i>	55076 (1.04)	3869 (31.91)	158 (1.00)	366275 (1.02)	18464 (41.35)	0 (0.00)
<i>tgdedx1 cur</i>	49103 (1.12)	13415 (9.20)	158 (1.00)	285444 (1.28)	136457 (5.60)	0 (0.00)
<i>tgdedx2 cur</i>	44607 (1.10)	11102 (11.12)	158 (1.00)	259441 (1.10)	63770 (11.97)	0 (0.00)
tgdedx <i>cur</i>	44607 (1.00)	26918 (4.59)	158 (1.00)	259441 (1.00)	210833 (3.62)	0 (0.00)
<i>tglike1 cur</i>	41260 (1.08)	14073 (8.77)	158 (1.00)	236057 (1.10)	108578 (7.03)	0 (0.00)
<i>tglike2 cur</i>	39713 (1.04)	11339 (10.89)	158 (1.00)	222936 (1.06)	97907 (7.80)	0 (0.00)
TGLIKE <i>cur</i>	39713 (1.00)	18814 (6.56)	158 (1.00)	222936 (1.00)	147246 (5.19)	0 (0.00)
<i>tgdb4 cur</i>	36845 (1.08)	9772 (12.63)	158 (1.00)	206294 (1.08)	60906 (12.54)	0 (0.00)
<i>tgdb4tip cur</i>	27020 (1.36)	37628 (3.28)	158 (1.00)	154290 (1.34)	208039 (3.67)	0 (0.00)
<i>tgdvxtip cur</i>	23018 (1.17)	24915 (4.96)	158 (1.00)	132660 (1.16)	125191 (6.10)	0 (0.00)
<i>tgdvxpi cur</i>	20452 (1.13)	20592 (6.00)	158 (1.00)	123497 (1.07)	86718 (8.80)	0 (0.00)
TGB4 <i>cur</i>	20452 (1.00)	60906 (2.03)	158 (1.00)	123497 (1.00)	314260 (2.43)	0 (0.00)
<i>pigap cur</i>	19297 (1.06)	10166 (12.14)	158 (1.00)	116777 (1.06)	68694 (11.11)	0 (0.00)
KIN 949	19297 (1.00)	104166 (1.19)	158 (1.00)	116777 (1.00)	646729 (1.18)	0 (0.00)
<i>tgpv cur</i>	14701 (1.31)	41416 (2.98)	166 (1.05)	85384 (1.37)	229186 (3.33)	0 (0.00)
<i>bwtrs cur</i>	12769 (1.15)	42904 (2.88)	169 (1.07)	75772 (1.13)	176329 (4.33)	0 (0.00)
<i>b4trs cur</i>	11647 (1.10)	40683 (3.03)	175 (1.11)	68939 (1.10)	170529 (4.48)	0 (0.00)
<i>b4ccd cur</i>	11639 (1.00)	896 (137.79)	158 (1.00)	68468 (1.01)	9165 (83.31)	0 (0.00)
<i>tgqualt</i> 949	11639 (1.00)	0 (123463.00)	158 (1.00)	62822 (1.09)	54567 (13.99)	0 (0.00)
<i>timcon cur</i>	11598 (1.00)	1228 (100.54)	158 (1.00)	62420 (1.01)	8971 (85.11)	0 (0.00)
<i>epitg</i> 949	11589 (1.00)	6472 (19.08)	158 (1.00)	62350 (1.00)	19737 (38.68)	0 (0.00)
<i>tger</i> 949	11582 (1.00)	1248 (98.93)	158 (1.00)	62325 (1.00)	20789 (36.73)	0 (0.00)
<i>targf</i> 949	11189 (1.04)	23330 (5.29)	165 (1.04)	59585 (1.05)	105229 (7.26)	0 (0.00)
<i>ticcon</i> 949	11189 (1.00)	8 (15432.90)	158 (1.00)	59584 (1.00)	117 (6525.69)	0 (0.00)

continued on next p

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>dtgttp</i> 949	11186 (1.00)	63 (1959.73)	158 (1.00)	59584 (1.00)	653 (1169.23)	0 (0.00)
<i>rtdif</i> 949	11104 (1.01)	3513 (35.14)	161 (1.02)	58648 (1.02)	17941 (42.56)	0 (0.00)
<i>epimaxk</i> 949	10762 (1.03)	13036 (9.47)	165 (1.04)	57529 (1.02)	46984 (16.25)	0 (0.00)
<i>drp</i> 949	10736 (1.00)	859 (143.73)	158 (1.00)	57136 (1.01)	13627 (56.03)	0 (0.00)
<i>phivtx1</i> 949	8705 (1.23)	26609 (4.64)	185 (1.17)	48421 (1.18)	168683 (4.53)	0 (0.00)
<i>iccon</i> 949	8435 (1.03)	4606 (26.80)	164 (1.04)	47335 (1.02)	32211 (23.70)	0 (0.00)
<i>opsveto</i> 949	7224 (1.17)	33039 (3.74)	188 (1.19)	39658 (1.19)	233980 (3.26)	0 (0.00)
<i>kic</i> 949	5724 (1.26)	29209 (4.23)	159 (1.01)	34870 (1.14)	153781 (4.96)	0 (0.00)
<i>tggeo cur</i>	5041 (1.14)	48749 (2.53)	170 (1.08)	29031 (1.20)	319091 (2.39)	1 (1.00)
<i>tdedge</i> 949	4832 (1.04)	20060 (6.15)	163 (1.03)	28133 (1.03)	108151 (7.06)	0 (0.00)
<i>tgzfool</i> 949	4832 (1.00)	963 (128.21)	158 (1.00)	28119 (1.00)	12333 (61.91)	0 (0.00)
<i>upvtrs cur</i>	4178 (1.16)	14831 (8.32)	178 (1.13)	25202 (1.12)	60718 (12.57)	0 (0.00)
<i>rvtrs cur</i>	4160 (1.00)	1942 (63.58)	159 (1.01)	25101 (1.00)	15533 (49.15)	0 (0.00)
<i>tgtcon cur</i>	4105 (1.01)	6850 (18.02)	161 (1.02)	22417 (1.12)	60727 (12.57)	0 (0.00)
<i>b4etcon cur</i>	4000 (1.03)	3834 (32.20)	164 (1.04)	21921 (1.02)	23606 (32.34)	0 (0.00)
<i>b4ekz cur</i>	559 (7.16)	93340 (1.32)	480 (3.04)	7366 (2.98)	521719 (1.46)	0 (0.00)
<i>b4ekzic cur</i>	559 (1.00)	8890 (13.89)	158 (1.00)	7366 (1.00)	78714 (9.70)	0 (0.00)
<i>b4tim off</i>	559 (1.00)	0 (123463.00)	158 (1.00)	4869 (1.51)	395143 (1.93)	1 (1.00)
<i>tgktim off</i>	559 (1.00)	0 (123463.00)	158 (1.00)	4869 (1.00)	0 (763506.00)	0 (0.00)
<i>tgenr off</i>	559 (1.00)	0 (123463.00)	158 (1.00)	4824 (1.01)	92823 (8.23)	0 (0.00)
<i>chi567 off</i>	559 (1.00)	0 (123463.00)	158 (1.00)	3063 (1.57)	511542 (1.49)	0 (0.00)
<i>npitg</i>	557 (1.00)	3645 (33.87)	158 (1.00)	3063 (1.00)	54567 (13.99)	0 (0.00)
<i>verrng off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	2614 (1.17)	321757 (2.37)	0 (0.00)
<i>chi5max off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	2526 (1.03)	225902 (3.38)	0 (0.00)
<i>angli off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	2519 (1.00)	53576 (14.25)	0 (0.00)
<i>ALLK fit off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	2069 (1.22)	291298 (2.62)	0 (0.00)
<i>tpics off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	1884 (1.10)	98026 (7.79)	0 (0.00)
<i>epionk off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	1854 (1.02)	21959 (34.77)	0 (0.00)
<i>ccd pul off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	259 (7.16)	542535 (1.41)	1 (1.00)
<i>timkf off</i>	557 (1.00)	0 (123463.00)	158 (1.00)	181 (1.43)	553685 (1.38)	4 (4.00)
<i>DELCO</i> 949	555 (1.00)	36325 (3.40)	158 (1.00)	48 (3.77)	219266 (3.48)	0 (0.00)
<i>cktrs cur</i>	471 (1.18)	19479 (6.34)	162 (1.03)	17 (2.82)	267206 (2.86)	0 (0.00)
<i>cktail cur</i>	453 (1.04)	14913 (8.28)	160 (1.01)	10 (1.70)	170693 (4.47)	0 (0.00)
<i>pv(not tg) cur</i>	405 (1.12)	39794 (3.10)	174 (1.10)	0 (10.00)	327438 (2.33)	0 (0.00)
<i>pi flg cur</i>	405 (1.00)	2869 (43.03)	158 (1.00)	0 (0.00)	25958 (29.41)	0 (0.00)
<i>ev502 cur</i>	323 (1.25)	29072 (4.25)	158 (1.00)	0 (0.00)	218072 (3.50)	0 (0.00)
<i>elveto cur</i>	289 (1.12)	19129 (6.45)	158 (1.00)	0 (0.00)	184712 (4.13)	0 (0.00)
<i>tdfool cur</i>	288 (1.00)	9525 (12.96)	158 (1.00)	0 (0.00)	134180 (5.69)	0 (0.00)
<i>tdvarnn02 cur</i>	231 (1.25)	32692 (3.78)	158 (1.00)	0 (0.00)	283368 (2.69)	0 (0.00)
TD cur	231 (1.00)	57912 (2.13)	158 (1.00)	0 (0.00)	433258 (1.76)	0 (0.00)
<i>cpitrs · cpitail</i>	226 (1.02)	23268 (5.31)	163 (1.03)	0 (0.00)	444723 (1.72)	0 (0.00)
<i>b4dedx cur</i>	158 (1.43)	53193 (2.32)	226 (1.43)	0 (0.00)	212707 (3.59)	0 (0.00)
Total Rej.		1.43			0.00	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	0 (0.00)	763506 (0.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	0 (0.00)	540193 (1.41)	223313 (3.42)	0 (0.00)
<i>BOX</i> 949	111942 (1.00)	0 (123463.00)	0 (0.00)	540193 (1.00)	0 (763506.00)	0 (0.00)
<i>icodel14 cur</i>	111180 (1.01)	1683 (73.36)	0 (0.00)	540193 (1.00)	4 (190877.00)	0 (0.00)
<i>cos3d cur</i>	104124 (1.07)	7800 (15.83)	0 (0.00)	491709 (1.10)	58256 (13.11)	0 (0.00)
<i>layv4</i> 949	104124 (1.00)	0 (123463.00)	0 (0.00)	491709 (1.00)	0 (763506.00)	0 (0.00)
<i>zfrf cur</i>	97709 (1.07)	13238 (9.33)	0 (0.00)	491386 (1.00)	828 (922.11)	0 (0.00)
<i>zutout cur</i>	97663 (1.00)	362 (341.06)	0 (0.00)	491085 (1.00)	592 (1289.71)	0 (0.00)
FIDUCIAL 949	97663 (1.00)	15446 (7.99)	0 (0.00)	491085 (1.00)	59345 (12.87)	0 (0.00)
<i>utqual</i> 949	75061 (1.30)	35084 (3.52)	0 (0.00)	407397 (1.21)	153963 (4.96)	0 (0.00)
<i>rsdedxcl</i> 949	75061 (1.00)	0 (123463.00)	0 (0.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	75061 (1.00)	0 (123463.00)	0 (0.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	75061 (1.00)	0 (123463.00)	0 (0.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>tgktim off</i>	75061 (1.00)	0 (123463.00)	0 (0.00)	407397 (1.00)	0 (763506.00)	0 (0.00)
<i>rngmom cur</i>	75061 (1.00)	11521 (10.72)	0 (0.00)	407397 (1.00)	223313 (3.42)	0 (0.00)
<i>prrf1</i> 949	66023 (1.14)	18246 (6.77)	0 (0.00)	396237 (1.03)	24547 (31.10)	0 (0.00)
<i>prrfz</i> 949	57193 (1.15)	20553 (6.01)	0 (0.00)	374122 (1.06)	51815 (14.74)	0 (0.00)
PRRF 949	57193 (1.00)	34294 (3.60)	0 (0.00)	374122 (1.00)	73789 (10.35)	0 (0.00)
<i>rtghi cur</i>	57054 (1.00)	503 (245.45)	0 (0.00)	373591 (1.00)	2460 (310.37)	0 (0.00)
<i>etghi cur</i>	55076 (1.04)	3869 (31.91)	0 (0.00)	366275 (1.02)	18464 (41.35)	0 (0.00)
<i>tgdedx1 cur</i>	49103 (1.12)	13415 (9.20)	0 (0.00)	285444 (1.28)	136457 (5.60)	0 (0.00)
<i>tgdedx2 cur</i>	44607 (1.10)	11102 (11.12)	0 (0.00)	259441 (1.10)	63770 (11.97)	0 (0.00)
tgdedx <i>cur</i>	44607 (1.00)	26918 (4.59)	0 (0.00)	259441 (1.00)	210833 (3.62)	0 (0.00)
<i>tglike1 cur</i>	41260 (1.08)	14073 (8.77)	0 (0.00)	236057 (1.10)	108578 (7.03)	0 (0.00)
<i>tglike2 cur</i>	39713 (1.04)	11339 (10.89)	0 (0.00)	222936 (1.06)	97907 (7.80)	0 (0.00)
TGLIKE <i>cur</i>	39713 (1.00)	18814 (6.56)	0 (0.00)	222936 (1.00)	147246 (5.19)	0 (0.00)
<i>tgdb4 cur</i>	36845 (1.08)	9772 (12.63)	0 (0.00)	206294 (1.08)	60906 (12.54)	0 (0.00)
<i>tgdb4tip cur</i>	27020 (1.36)	37628 (3.28)	0 (0.00)	154290 (1.34)	208039 (3.67)	0 (0.00)
<i>tgdvxtip cur</i>	23018 (1.17)	24915 (4.96)	0 (0.00)	132660 (1.16)	125191 (6.10)	0 (0.00)
<i>tgdvxpi cur</i>	20452 (1.13)	20592 (6.00)	0 (0.00)	123497 (1.07)	86718 (8.80)	0 (0.00)
TGB4 <i>cur</i>	20452 (1.00)	60906 (2.03)	0 (0.00)	123497 (1.00)	314260 (2.43)	0 (0.00)
<i>pigap cur</i>	19297 (1.06)	10166 (12.14)	0 (0.00)	116777 (1.06)	68694 (11.11)	0 (0.00)
KIN 949	19297 (1.00)	104166 (1.19)	0 (0.00)	116777 (1.00)	646729 (1.18)	0 (0.00)
<i>tgpv cur</i>	14701 (1.31)	41416 (2.98)	0 (0.00)	85384 (1.37)	229186 (3.33)	0 (0.00)
<i>bwtrs cur</i>	12769 (1.15)	42904 (2.88)	0 (0.00)	75772 (1.13)	176329 (4.33)	0 (0.00)
<i>b4trs cur</i>	11647 (1.10)	40683 (3.03)	0 (0.00)	68939 (1.10)	170529 (4.48)	0 (0.00)
<i>b4ccd cur</i>	11639 (1.00)	896 (137.79)	0 (0.00)	68468 (1.01)	9165 (83.31)	0 (0.00)
<i>tgqualt</i> 949	11639 (1.00)	0 (123463.00)	0 (0.00)	62822 (1.09)	54567 (13.99)	0 (0.00)
<i>timcon cur</i>	11598 (1.00)	1228 (100.54)	0 (0.00)	62420 (1.01)	8971 (85.11)	0 (0.00)
<i>epitg</i> 949	11589 (1.00)	6472 (19.08)	0 (0.00)	62350 (1.00)	19737 (38.68)	0 (0.00)
<i>tger</i> 949	11582 (1.00)	1248 (98.93)	0 (0.00)	62325 (1.00)	20789 (36.73)	0 (0.00)
<i>targf</i> 949	11189 (1.04)	23330 (5.29)	0 (0.00)	59585 (1.05)	105229 (7.26)	0 (0.00)
<i>ticcon</i> 949	11189 (1.00)	8 (15432.90)	0 (0.00)	59584 (1.00)	117 (6525.69)	0 (0.00)

continued on next p

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>dtgttp</i> 949	11186 (1.00)	63 (1959.73)	0 (0.00)	59584 (1.00)	653 (1169.23)	0 (0.00)
<i>rtdif</i> 949	11104 (1.01)	3513 (35.14)	0 (0.00)	58648 (1.02)	17941 (42.56)	0 (0.00)
<i>epimaxk</i> 949	10762 (1.03)	13036 (9.47)	0 (0.00)	57529 (1.02)	46984 (16.25)	0 (0.00)
<i>drp</i> 949	10736 (1.00)	859 (143.73)	0 (0.00)	57136 (1.01)	13627 (56.03)	0 (0.00)
<i>phivtx1</i> 949	8705 (1.23)	26609 (4.64)	0 (0.00)	48421 (1.18)	168683 (4.53)	0 (0.00)
<i>iccon</i> 949	8435 (1.03)	4606 (26.80)	0 (0.00)	47335 (1.02)	32211 (23.70)	0 (0.00)
<i>opsveto</i> 949	7224 (1.17)	33039 (3.74)	0 (0.00)	39658 (1.19)	233980 (3.26)	0 (0.00)
<i>kic</i> 949	5724 (1.26)	29209 (4.23)	0 (0.00)	34870 (1.14)	153781 (4.96)	0 (0.00)
<i>tggeo cur</i>	5041 (1.14)	48749 (2.53)	1 (1.00)	29031 (1.20)	319091 (2.39)	0 (0.00)
<i>tdedge</i> 949	4832 (1.04)	20060 (6.15)	0 (0.00)	28133 (1.03)	108151 (7.06)	0 (0.00)
<i>tgzfool</i> 949	4832 (1.00)	963 (128.21)	0 (0.00)	28119 (1.00)	12333 (61.91)	0 (0.00)
<i>upvtrs cur</i>	4178 (1.16)	14831 (8.32)	0 (0.00)	25202 (1.12)	60718 (12.57)	0 (0.00)
<i>rvtrs cur</i>	4160 (1.00)	1942 (63.58)	0 (0.00)	25101 (1.00)	15533 (49.15)	0 (0.00)
<i>tgtcon cur</i>	4105 (1.01)	6850 (18.02)	0 (0.00)	22417 (1.12)	60727 (12.57)	0 (0.00)
<i>b4etcon cur</i>	4000 (1.03)	3834 (32.20)	0 (0.00)	21921 (1.02)	23606 (32.34)	0 (0.00)
<i>b4ekz cur</i>	559 (7.16)	93340 (1.32)	6 (6.00)	7366 (2.98)	521719 (1.46)	0 (0.00)
<i>b4ekzic cur</i>	559 (1.00)	8890 (13.89)	0 (0.00)	7366 (1.00)	78714 (9.70)	0 (0.00)
<i>b4tim off</i>	559 (1.00)	0 (123463.00)	0 (0.00)	4869 (1.51)	395143 (1.93)	0 (0.00)
<i>tgktim off</i>	559 (1.00)	0 (123463.00)	0 (0.00)	4869 (1.00)	0 (763506.00)	0 (0.00)
<i>tgenr off</i>	559 (1.00)	0 (123463.00)	0 (0.00)	4824 (1.01)	92823 (8.23)	0 (0.00)
<i>chi567 off</i>	559 (1.00)	0 (123463.00)	0 (0.00)	3063 (1.57)	511542 (1.49)	0 (0.00)
<i>npitg</i>	557 (1.00)	3645 (33.87)	0 (0.00)	3063 (1.00)	54567 (13.99)	0 (0.00)
<i>verrng off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	2614 (1.17)	321757 (2.37)	0 (0.00)
<i>chi5max off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	2526 (1.03)	225902 (3.38)	0 (0.00)
<i>angli off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	2519 (1.00)	53576 (14.25)	0 (0.00)
<i>ALLKfit off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	2069 (1.22)	291298 (2.62)	0 (0.00)
<i>tpics off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	1884 (1.10)	98026 (7.79)	0 (0.00)
<i>epionk off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	1854 (1.02)	21959 (34.77)	0 (0.00)
<i>ccdpu1 off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	259 (7.16)	542535 (1.41)	0 (0.00)
<i>timkf off</i>	557 (1.00)	0 (123463.00)	0 (0.00)	181 (1.43)	553685 (1.38)	0 (0.00)
<i>DELCO</i> 949	555 (1.00)	36325 (3.40)	0 (0.00)	48 (3.77)	219266 (3.48)	0 (0.00)
<i>cktrs cur</i>	471 (1.18)	19479 (6.34)	2 (2.00)	17 (2.82)	267206 (2.86)	0 (0.00)
<i>cktail cur</i>	453 (1.04)	14913 (8.28)	0 (0.00)	10 (1.70)	170693 (4.47)	0 (0.00)
<i>pv(not tg) cur</i>	405 (1.12)	39794 (3.10)	1 (1.00)	0 (10.00)	327438 (2.33)	0 (0.00)
<i>pi1fg cur</i>	405 (1.00)	2869 (43.03)	0 (0.00)	0 (0.00)	25958 (29.41)	0 (0.00)
<i>ev502 cur</i>	323 (1.25)	29072 (4.25)	0 (0.00)	0 (0.00)	218072 (3.50)	0 (0.00)
<i>elveto cur</i>	289 (1.12)	19129 (6.45)	0 (0.00)	0 (0.00)	184712 (4.13)	0 (0.00)
<i>tdfool cur</i>	288 (1.00)	9525 (12.96)	0 (0.00)	0 (0.00)	134180 (5.69)	0 (0.00)
<i>tdvarnn02 cur</i>	231 (1.25)	32692 (3.78)	0 (0.00)	0 (0.00)	283368 (2.69)	0 (0.00)
TD <i>cur</i>	231 (1.00)	57912 (2.13)	0 (0.00)	0 (0.00)	433258 (1.76)	0 (0.00)
<i>b4dedx</i>	68 (3.40)	70270 (1.76)	5 (5.00)	0 (0.00)	550799 (1.39)	0 (0.00)
<i>cpitrs cur</i>	0 (68.00)	100085 (1.23)	60 (60.00)	0 (0.00)	318061 (2.40)	0 (0.00)
<i>cpitail cur</i>	0 (0.00)	18608 (6.63)	0 (0.00)	0 (0.00)	56586 (13.49)	0 (0.00)
Total Rej.		68.00			0.00	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	3 (1.00)	763506 (0.00)	0 (763506.00)	95
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	3 (1.00)	763506 (1.00)	0 (763506.00)	95
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	3 (1.00)	763506 (1.00)	0 (763506.00)	95
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	3 (1.00)	763506 (1.00)	0 (763506.00)	95
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	3 (1.00)	540193 (1.41)	223313 (3.42)	101
<i>pv(not tg) cur</i>	75763 (1.48)	39794 (3.10)	19 (6.33)	287589 (1.88)	327438 (2.33)	538
<i>pi_flg cur</i>	75095 (1.01)	2869 (43.03)	3 (1.00)	286486 (1.00)	25958 (29.41)	95
<i>ev502 cur</i>	59706 (1.26)	29072 (4.25)	3 (1.00)	227219 (1.26)	218072 (3.50)	95
<i>elveto cur</i>	53864 (1.11)	19129 (6.45)	3 (1.00)	207558 (1.09)	184712 (4.13)	95
<i>tdfool cur</i>	53764 (1.00)	9525 (12.96)	3 (1.00)	207057 (1.00)	134180 (5.69)	95
<i>tdvarnn02 cur</i>	43565 (1.23)	32692 (3.78)	3 (1.00)	169436 (1.22)	283368 (2.69)	95
TD <i>cur</i>	43565 (1.00)	57912 (2.13)	3 (1.00)	169436 (1.00)	433258 (1.76)	95
<i>b4dedx cur</i>	22670 (1.92)	53193 (2.32)	3 (1.00)	89159 (1.90)	212707 (3.59)	107
<i>tgqualt</i> 949	22670 (1.00)	0 (123463.00)	3 (1.00)	81621 (1.09)	54567 (13.99)	95
<i>timcon cur</i>	22418 (1.01)	1228 (100.54)	3 (1.00)	80724 (1.01)	8971 (85.11)	96
<i>DELCO</i> 949	11934 (1.88)	87138 (1.42)	10 (3.33)	21753 (3.71)	544240 (1.40)	115
<i>tger</i> 949	11766 (1.01)	1248 (98.93)	3 (1.00)	20280 (1.07)	20789 (36.73)	100
<i>tgzfool</i> 949	11678 (1.01)	963 (128.21)	3 (1.00)	20044 (1.01)	12333 (61.91)	97
<i>upvtrs cur</i>	10118 (1.15)	14831 (8.32)	3 (1.00)	17820 (1.12)	60718 (12.57)	101
<i>rvtrs cur</i>	10007 (1.01)	1942 (63.58)	3 (1.00)	17464 (1.02)	15533 (49.15)	102
<i>b4etcon cur</i>	9815 (1.02)	3834 (32.20)	3 (1.00)	17056 (1.02)	23606 (32.34)	98
<i>b4trs · b4ccd</i>	9370 (1.05)	82390 (1.50)	11 (3.67)	7964 (2.14)	713786 (1.07)	1137
<i>cpitrs cur</i>	537 (17.45)	100085 (1.23)	68 (22.67)	2304 (3.46)	318061 (2.40)	1919
<i>cpitail cur</i>	532 (1.01)	18608 (6.63)	3 (1.00)	2298 (1.00)	56586 (13.49)	97
$1.1 < b4ars_atc < 5.0$	356 (1.49)	71121 (1.74)	6 (2.00)	1724 (1.33)	404250 (1.89)	184
<i>bwtrs cur</i>	9 (39.56)	42904 (2.88)	27 (9.00)	128 (13.47)	267206 (2.86)	663
<i>cktrs cur</i>	3 (3.00)	19479 (6.34)	5 (1.67)	95 (1.35)	170693 (4.47)	128
<i>cktail cur</i>	3 (1.00)	14913 (8.28)	3 (1.00)	()	()	
Total Rej.		118.67			18.15	

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbu
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	2 (1.00)	763506 (0.00)	0 (763506.00)	33 (1.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	2 (1.00)	763506 (1.00)	0 (763506.00)	33 (1.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	2 (1.00)	763506 (1.00)	0 (763506.00)	33 (1.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	2 (1.00)	763506 (1.00)	0 (763506.00)	33 (1.00)
<i>rngmom cur</i>	111942 (1.10)	11521 (10.72)	2 (1.00)	540193 (1.41)	223313 (3.42)	34 (1.03)
<i>pv(not tg) cur</i>	75763 (1.48)	39794 (3.10)	12 (6.00)	287589 (1.88)	327438 (2.33)	344 (10.42)
<i>pi_flg cur</i>	75095 (1.01)	2869 (43.03)	2 (1.00)	286486 (1.00)	25958 (29.41)	33 (1.00)
<i>ev502 cur</i>	59706 (1.26)	29072 (4.25)	2 (1.00)	227219 (1.26)	218072 (3.50)	33 (1.00)
<i>elveto cur</i>	53864 (1.11)	19129 (6.45)	2 (1.00)	207558 (1.09)	184712 (4.13)	33 (1.00)
<i>tdfool cur</i>	53764 (1.00)	9525 (12.96)	2 (1.00)	207057 (1.00)	134180 (5.69)	33 (1.00)
<i>tdvarnn02 cur</i>	43565 (1.23)	32692 (3.78)	2 (1.00)	169436 (1.22)	283368 (2.69)	33 (1.00)
TD <i>cur</i>	43565 (1.00)	57912 (2.13)	2 (1.00)	169436 (1.00)	433258 (1.76)	33 (1.00)
<i>b4dedx cur</i>	22670 (1.92)	53193 (2.32)	2 (1.00)	89159 (1.90)	212707 (3.59)	35 (1.06)
<i>tgqualt</i> 949	22670 (1.00)	0 (123463.00)	2 (1.00)	81621 (1.09)	54567 (13.99)	33 (1.00)
<i>timcon cur</i>	22418 (1.01)	1228 (100.54)	2 (1.00)	80724 (1.01)	8971 (85.11)	33 (1.00)
<i>DELCO</i> 949	11934 (1.88)	87138 (1.42)	8 (4.00)	21753 (3.71)	544240 (1.40)	38 (1.15)
<i>tger</i> 949	11766 (1.01)	1248 (98.93)	2 (1.00)	20280 (1.07)	20789 (36.73)	34 (1.03)
<i>tgzfool</i> 949	11678 (1.01)	963 (128.21)	2 (1.00)	20044 (1.01)	12333 (61.91)	34 (1.03)
<i>upvtrs cur</i>	10118 (1.15)	14831 (8.32)	2 (1.00)	17820 (1.12)	60718 (12.57)	35 (1.06)
<i>rvtrs cur</i>	10007 (1.01)	1942 (63.58)	2 (1.00)	17464 (1.02)	15533 (49.15)	35 (1.06)
<i>b4etcon cur</i>	9815 (1.02)	3834 (32.20)	2 (1.00)	17056 (1.02)	23606 (32.34)	33 (1.00)
<i>b4trs · b4ccd</i>	9370 (1.05)	82390 (1.50)	12 (6.00)	7964 (2.14)	713786 (1.07)	1521 (46.09)
<i>cktrs cur</i>	8763 (1.07)	19479 (6.34)	3 (1.50)	5808 (1.37)	267206 (2.86)	38 (1.15)
<i>cktail cur</i>	8697 (1.01)	14913 (8.28)	2 (1.00)	5733 (1.01)	170693 (4.47)	36 (1.09)
<i>b4ars_atc</i> < 1.1	5359 (1.62)	53125 (2.32)	4 (2.00)	3260 (1.76)	365300 (2.09)	94 (2.85)
<i>tgz</i> > -7.0	4766 (1.12)	17011 (7.26)	3 (1.50)	91 (35.82)	176329 (4.33)	83 (2.52)
<i>bwtrs cur</i>	99 (48.14)	42904 (2.88)	13 (6.50)	33 (2.76)	318061 (2.40)	78 (2.36)
<i>cpitrs cur</i>	2 (49.50)	100085 (1.23)	78 (39.00)	33 (1.00)	56586 (13.49)	33 (1.00)
<i>cpitail cur</i>	2 (1.00)	18608 (6.63)	2 (1.00)	()	()	()
Total Rej.	2383.00			98.79		

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	0 (0.00)	763506 (0.00)	0 (763506.00)	0
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0
<i>pv(not tg) cur</i>	83669 (1.48)	39794 (3.10)	0 (0.00)	436068 (1.75)	327438 (2.33)	2
<i>tgqualt</i> 949	83669 (1.00)	0 (123463.00)	0 (0.00)	407068 (1.07)	54567 (13.99)	0
<i>timcon cur</i>	83008 (1.01)	1228 (100.54)	0 (0.00)	403347 (1.01)	8971 (85.11)	0
<i>epitg</i> 949	78549 (1.06)	6472 (19.08)	0 (0.00)	395836 (1.02)	19737 (38.68)	0
<i>tger</i> 949	77755 (1.01)	1248 (98.93)	0 (0.00)	388695 (1.02)	20789 (36.73)	0
<i>ticcon</i> 949	77753 (1.00)	8 (15432.90)	0 (0.00)	388684 (1.00)	117 (6525.69)	0
<i>dtgttp</i> 949	77733 (1.00)	63 (1959.73)	0 (0.00)	388631 (1.00)	653 (1169.23)	0
<i>rtdif</i> 949	75406 (1.03)	3513 (35.14)	0 (0.00)	378396 (1.03)	17941 (42.56)	0
<i>drp</i> 949	74808 (1.01)	859 (143.73)	0 (0.00)	371789 (1.02)	13627 (56.03)	0
<i>iccon</i> 949	72364 (1.03)	4606 (26.80)	0 (0.00)	362833 (1.02)	32211 (23.70)	0
<i>kic</i> 949	62448 (1.16)	29209 (4.23)	0 (0.00)	318259 (1.14)	153781 (4.96)	0
<i>tggeo cur</i>	53684 (1.16)	48749 (2.53)	2 (2.00)	269900 (1.18)	319091 (2.39)	0
<i>tgzfool</i> 949	53402 (1.01)	963 (128.21)	0 (0.00)	268092 (1.01)	12333 (61.91)	0
<i>upvtrs cur</i>	46922 (1.14)	14831 (8.32)	0 (0.00)	244026 (1.10)	60718 (12.57)	0
<i>rvtrs cur</i>	46542 (1.01)	1942 (63.58)	0 (0.00)	241998 (1.01)	15533 (49.15)	0
<i>tgtcon cur</i>	44486 (1.05)	6850 (18.02)	0 (0.00)	229201 (1.06)	60727 (12.57)	0
<i>b4etcon cur</i>	43189 (1.03)	3834 (32.20)	0 (0.00)	222642 (1.03)	23606 (32.34)	0
<i>b4tim off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	80921 (2.75)	395143 (1.93)	0
<i>tgktim off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	80921 (1.00)	0 (763506.00)	0
<i>tgenr off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	78888 (1.03)	92823 (8.23)	0
<i>chi567 off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	27978 (2.82)	511542 (1.49)	0
<i>npitg</i>	42819 (1.01)	3645 (33.87)	0 (0.00)	27978 (1.00)	54567 (13.99)	0
<i>verrng off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	20194 (1.39)	321757 (2.37)	0
<i>chi5max off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	19326 (1.04)	225902 (3.38)	0
<i>angli off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	19258 (1.00)	53576 (14.25)	0
<i>ALLKfit off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	12212 (1.58)	291298 (2.62)	0
<i>tpics off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	10691 (1.14)	98026 (7.79)	0
<i>epionk off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	10360 (1.03)	21959 (34.77)	0
<i>ccd pul off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	3289 (3.15)	542535 (1.41)	2
<i>timkf off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	2250 (1.46)	553685 (1.38)	0
<i>DELCO</i> 949	8950 (4.78)	87138 (1.42)	162 (162.00)	683 (3.29)	544240 (1.40)	25 (25.00)
<i>b4dedx cur</i>	8646 (1.04)	53193 (2.32)	0 (0.00)	679 (1.01)	212707 (3.59)	0
<i>cpitrs cur</i>	2342 (3.69)	100085 (1.23)	12 (12.00)	618 (1.10)	318061 (2.40)	0
<i>cpitail cur</i>	2335 (1.00)	18608 (6.63)	0 (0.00)	618 (1.00)	56586 (13.49)	0
<i>cktrs · cktail · bwtrs</i>	887 (2.63)	65840 (1.88)	0 (0.00)	618 (1.00)	0 (763506.00)	0
<i>BOX</i> 949	887 (1.00)	0 (123463.00)	0 (0.00)	618 (1.00)	4 (190877.00)	0
<i>icodel14 cur</i>	848 (1.05)	1683 (73.36)	0 (0.00)	602 (1.03)	58256 (13.11)	0
<i>cos3d cur</i>	765 (1.11)	7800 (15.83)	0 (0.00)	602 (1.00)	0 (763506.00)	0
<i>layv4</i> 949	765 (1.00)	0 (123463.00)	0 (0.00)	599 (1.01)	828 (922.11)	0
<i>zfrf cur</i>	699 (1.09)	13238 (9.33)	0 (0.00)	598 (1.00)	592 (1289.71)	0
<i>zutout cur</i>	699 (1.00)	362 (341.06)	0 (0.00)	598 (1.00)	59345 (12.87)	0
FIDUCIAL 949	699 (1.00)	15446 (7.99)	0 (0.00)	475 (1.26)	153963 (4.96)	0

continued on nex

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>utcqual</i> 949	461 (1.52)	35084 (3.52)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxcl</i> 949	461 (1.00)	0 (123463.00)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	461 (1.00)	0 (123463.00)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	461 (1.00)	0 (123463.00)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>tgktim of f</i>	461 (1.00)	0 (123463.00)	0 (0.00)	20 (23.75)	223313 (3.42)	0 (0.00)
<i>rngmom cur</i>	254 (1.81)	11521 (10.72)	0 (0.00)	20 (1.00)	24547 (31.10)	0 (0.00)
<i>prrf1</i> 949	218 (1.17)	18246 (6.77)	0 (0.00)	19 (1.05)	51815 (14.74)	0 (0.00)
<i>prrfz</i> 949	198 (1.10)	20553 (6.01)	0 (0.00)	19 (1.00)	73789 (10.35)	0 (0.00)
PRRF 949	198 (1.00)	34294 (3.60)	0 (0.00)	19 (1.00)	2460 (310.37)	0 (0.00)
<i>rtghi cur</i>	198 (1.00)	503 (245.45)	0 (0.00)	19 (1.00)	18464 (41.35)	0 (0.00)
<i>etghi cur</i>	194 (1.02)	3869 (31.91)	0 (0.00)	17 (1.12)	136457 (5.60)	0 (0.00)
<i>tgdedx1 cur</i>	174 (1.11)	13415 (9.20)	0 (0.00)	17 (1.00)	63770 (11.97)	0 (0.00)
<i>tgdedx2 cur</i>	135 (1.29)	11102 (11.12)	0 (0.00)	17 (1.00)	210833 (3.62)	0 (0.00)
tgdedx <i>cur</i>	135 (1.00)	26918 (4.59)	0 (0.00)	17 (1.00)	108578 (7.03)	0 (0.00)
<i>tglike1 cur</i>	118 (1.14)	14073 (8.77)	0 (0.00)	17 (1.00)	97907 (7.80)	0 (0.00)
<i>tglike2 cur</i>	112 (1.05)	11339 (10.89)	0 (0.00)	17 (1.00)	147246 (5.19)	0 (0.00)
TGLIKE <i>cur</i>	112 (1.00)	18814 (6.56)	0 (0.00)	16 (1.06)	60906 (12.54)	0 (0.00)
<i>tgdb4 cur</i>	108 (1.04)	9772 (12.63)	0 (0.00)	16 (1.00)	208039 (3.67)	0 (0.00)
<i>tgdb4tip cur</i>	79 (1.37)	37628 (3.28)	0 (0.00)	16 (1.00)	125191 (6.10)	0 (0.00)
<i>tgdvxtip cur</i>	67 (1.18)	24915 (4.96)	0 (0.00)	16 (1.00)	86718 (8.80)	0 (0.00)
<i>tgdvxpi cur</i>	45 (1.49)	20592 (6.00)	0 (0.00)	16 (1.00)	314260 (2.43)	0 (0.00)
TGB4 <i>cur</i>	45 (1.00)	60906 (2.03)	0 (0.00)	16 (1.00)	68694 (11.11)	0 (0.00)
<i>pigap cur</i>	41 (1.10)	10166 (12.14)	0 (0.00)	16 (1.00)	646729 (1.18)	0 (0.00)
KIN 949	41 (1.00)	104166 (1.19)	0 (0.00)	16 (1.00)	25958 (29.41)	0 (0.00)
<i>piflg cur</i>	40 (1.02)	2869 (43.03)	0 (0.00)	13 (1.23)	218072 (3.50)	0 (0.00)
<i>ev502 cur</i>	28 (1.43)	29072 (4.25)	0 (0.00)	11 (1.18)	184712 (4.13)	0 (0.00)
<i>elveto cur</i>	28 (1.00)	19129 (6.45)	0 (0.00)	11 (1.00)	134180 (5.69)	0 (0.00)
<i>tdfool cur</i>	28 (1.00)	9525 (12.96)	0 (0.00)	11 (1.00)	283368 (2.69)	0 (0.00)
<i>tdvarnn02 cur</i>	19 (1.47)	32692 (3.78)	0 (0.00)	11 (1.00)	433258 (1.76)	0 (0.00)
TD <i>cur</i>	19 (1.00)	57912 (2.13)	0 (0.00)	3 (3.67)	462111 (1.65)	6 (6.00)
<i>b4trs cur</i>	1 (19.00)	40683 (3.03)	18 (18.00)	0 (3.00)	170529 (4.48)	3 (3.00)
<i>b4ccd cur</i>	0 (1.00)	896 (137.79)	1 (1.00)	0 (0.00)	9165 (83.31)	0 (0.00)
Total Rej.	19.00			3.00		

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	0 (0.00)	763506 (0.00)	0 (763506.00)	0
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	0 (0.00)	763506 (1.00)	0 (763506.00)	0
<i>pv(not tg) cur</i>	83669 (1.48)	39794 (3.10)	0 (0.00)	436068 (1.75)	327438 (2.33)	2
<i>tgqualt</i> 949	83669 (1.00)	0 (123463.00)	0 (0.00)	407068 (1.07)	54567 (13.99)	0
<i>timcon cur</i>	83008 (1.01)	1228 (100.54)	0 (0.00)	403347 (1.01)	8971 (85.11)	0
<i>epitg</i> 949	78549 (1.06)	6472 (19.08)	0 (0.00)	395836 (1.02)	19737 (38.68)	0
<i>tger</i> 949	77755 (1.01)	1248 (98.93)	0 (0.00)	388695 (1.02)	20789 (36.73)	0
<i>ticcon</i> 949	77753 (1.00)	8 (15432.90)	0 (0.00)	388684 (1.00)	117 (6525.69)	0
<i>dtgttp</i> 949	77733 (1.00)	63 (1959.73)	0 (0.00)	388631 (1.00)	653 (1169.23)	0
<i>rtdif</i> 949	75406 (1.03)	3513 (35.14)	0 (0.00)	378396 (1.03)	17941 (42.56)	0
<i>drp</i> 949	74808 (1.01)	859 (143.73)	0 (0.00)	371789 (1.02)	13627 (56.03)	0
<i>iccon</i> 949	72364 (1.03)	4606 (26.80)	0 (0.00)	362833 (1.02)	32211 (23.70)	0
<i>kic</i> 949	62448 (1.16)	29209 (4.23)	0 (0.00)	318259 (1.14)	153781 (4.96)	0
<i>tggeo cur</i>	53684 (1.16)	48749 (2.53)	0 (0.00)	269900 (1.18)	319091 (2.39)	0
<i>tgzfool</i> 949	53402 (1.01)	963 (128.21)	0 (0.00)	268092 (1.01)	12333 (61.91)	0
<i>upvtrs cur</i>	46922 (1.14)	14831 (8.32)	0 (0.00)	244026 (1.10)	60718 (12.57)	0
<i>rvtrs cur</i>	46542 (1.01)	1942 (63.58)	0 (0.00)	241998 (1.01)	15533 (49.15)	0
<i>tgtcon cur</i>	44486 (1.05)	6850 (18.02)	0 (0.00)	229201 (1.06)	60727 (12.57)	0
<i>b4etcon cur</i>	43189 (1.03)	3834 (32.20)	0 (0.00)	222642 (1.03)	23606 (32.34)	0
<i>b4tim off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	80921 (2.75)	395143 (1.93)	0
<i>tgktim off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	80921 (1.00)	0 (763506.00)	0
<i>tgenr off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	78888 (1.03)	92823 (8.23)	0
<i>chi567 off</i>	43189 (1.00)	0 (123463.00)	0 (0.00)	27978 (2.82)	511542 (1.49)	0
<i>npitg</i>	42819 (1.01)	3645 (33.87)	0 (0.00)	27978 (1.00)	54567 (13.99)	0
<i>verrng off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	20194 (1.39)	321757 (2.37)	0
<i>chi5max off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	19326 (1.04)	225902 (3.38)	1
<i>angli off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	19258 (1.00)	53576 (14.25)	0
<i>ALLKfit off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	12212 (1.58)	291298 (2.62)	0
<i>tpics off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	10691 (1.14)	98026 (7.79)	0
<i>epionk off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	10360 (1.03)	21959 (34.77)	0
<i>ccd pul off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	3289 (3.15)	542535 (1.41)	0
<i>timkf off</i>	42819 (1.00)	0 (123463.00)	0 (0.00)	2250 (1.46)	553685 (1.38)	0
<i>DELCO</i> 949	8950 (4.78)	87138 (1.42)	29 (29.00)	683 (3.29)	544240 (1.40)	5
<i>b4dedx cur</i>	8646 (1.04)	53193 (2.32)	0 (0.00)	679 (1.01)	212707 (3.59)	0
<i>cpitrs cur</i>	2342 (3.69)	100085 (1.23)	4 (4.00)	618 (1.10)	318061 (2.40)	0
<i>cpitail cur</i>	2335 (1.00)	18608 (6.63)	0 (0.00)	618 (1.00)	56586 (13.49)	0
<i>cktrs · cktail · bwtrs</i>	887 (2.63)	65840 (1.88)	0 (0.00)	618 (1.00)	0 (763506.00)	0
<i>BOX</i> 949	887 (1.00)	0 (123463.00)	0 (0.00)	618 (1.00)	4 (190877.00)	0
<i>icodel14 cur</i>	848 (1.05)	1683 (73.36)	0 (0.00)	602 (1.03)	58256 (13.11)	0
<i>cos3d cur</i>	765 (1.11)	7800 (15.83)	0 (0.00)	602 (1.00)	0 (763506.00)	0
<i>layv4</i> 949	765 (1.00)	0 (123463.00)	0 (0.00)	599 (1.01)	828 (922.11)	0
<i>zfrf cur</i>	699 (1.09)	13238 (9.33)	0 (0.00)	598 (1.00)	592 (1289.71)	0
<i>zutout cur</i>	699 (1.00)	362 (341.06)	0 (0.00)	598 (1.00)	59345 (12.87)	0
FIDUCIAL 949	699 (1.00)	15446 (7.99)	0 (0.00)	475 (1.26)	153963 (4.96)	0

continued on nex

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>utcqual</i> 949	461 (1.52)	35084 (3.52)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedx1</i> 949	461 (1.00)	0 (123463.00)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax</i> cur	461 (1.00)	0 (123463.00)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike</i> cur	461 (1.00)	0 (123463.00)	0 (0.00)	475 (1.00)	0 (763506.00)	0 (0.00)
<i>tgktim</i> of <i>f</i>	461 (1.00)	0 (123463.00)	0 (0.00)	20 (23.75)	223313 (3.42)	0 (0.00)
<i>rngmom</i> cur	254 (1.81)	11521 (10.72)	0 (0.00)	20 (1.00)	24547 (31.10)	0 (0.00)
<i>prrf1</i> 949	218 (1.17)	18246 (6.77)	0 (0.00)	19 (1.05)	51815 (14.74)	0 (0.00)
<i>prrfz</i> 949	198 (1.10)	20553 (6.01)	0 (0.00)	19 (1.00)	73789 (10.35)	0 (0.00)
PRRF 949	198 (1.00)	34294 (3.60)	0 (0.00)	19 (1.00)	2460 (310.37)	0 (0.00)
<i>rtghi</i> cur	198 (1.00)	503 (245.45)	0 (0.00)	19 (1.00)	18464 (41.35)	0 (0.00)
<i>etghi</i> cur	194 (1.02)	3869 (31.91)	0 (0.00)	17 (1.12)	136457 (5.60)	0 (0.00)
<i>tgdedx1</i> cur	174 (1.11)	13415 (9.20)	0 (0.00)	17 (1.00)	63770 (11.97)	0 (0.00)
<i>tgdedx2</i> cur	135 (1.29)	11102 (11.12)	0 (0.00)	17 (1.00)	210833 (3.62)	0 (0.00)
tgdedx cur	135 (1.00)	26918 (4.59)	0 (0.00)	17 (1.00)	108578 (7.03)	0 (0.00)
<i>tglike1</i> cur	118 (1.14)	14073 (8.77)	0 (0.00)	17 (1.00)	97907 (7.80)	0 (0.00)
<i>tglike2</i> cur	112 (1.05)	11339 (10.89)	0 (0.00)	17 (1.00)	147246 (5.19)	0 (0.00)
TGLIKE cur	112 (1.00)	18814 (6.56)	0 (0.00)	16 (1.06)	60906 (12.54)	0 (0.00)
<i>tgdb4</i> cur	108 (1.04)	9772 (12.63)	0 (0.00)	16 (1.00)	208039 (3.67)	0 (0.00)
<i>tgdb4tip</i> cur	79 (1.37)	37628 (3.28)	0 (0.00)	16 (1.00)	125191 (6.10)	0 (0.00)
<i>tgdvxtip</i> cur	67 (1.18)	24915 (4.96)	0 (0.00)	16 (1.00)	86718 (8.80)	0 (0.00)
<i>tgdvxpi</i> cur	45 (1.49)	20592 (6.00)	0 (0.00)	16 (1.00)	314260 (2.43)	0 (0.00)
TGB4 cur	45 (1.00)	60906 (2.03)	0 (0.00)	16 (1.00)	68694 (11.11)	0 (0.00)
<i>pigap</i> cur	41 (1.10)	10166 (12.14)	0 (0.00)	16 (1.00)	646729 (1.18)	0 (0.00)
KIN 949	41 (1.00)	104166 (1.19)	0 (0.00)	16 (1.00)	25958 (29.41)	0 (0.00)
<i>piflg</i> cur	40 (1.02)	2869 (43.03)	0 (0.00)	13 (1.23)	218072 (3.50)	0 (0.00)
<i>ev502</i> cur	28 (1.43)	29072 (4.25)	0 (0.00)	11 (1.18)	184712 (4.13)	0 (0.00)
<i>elveto</i> cur	28 (1.00)	19129 (6.45)	0 (0.00)	11 (1.00)	134180 (5.69)	0 (0.00)
<i>tdfool</i> cur	28 (1.00)	9525 (12.96)	0 (0.00)	11 (1.00)	283368 (2.69)	0 (0.00)
<i>tdvarnn02</i> cur	19 (1.47)	32692 (3.78)	0 (0.00)	11 (1.00)	433258 (1.76)	0 (0.00)
TD cur	19 (1.00)	57912 (2.13)	0 (0.00)	3 (3.67)	462111 (1.65)	6 (6.00)
<i>targf</i> 949	14 (1.36)	23330 (5.29)	0 (0.00)	3 (1.00)	105229 (7.26)	0 (0.00)
<i>b4ekz</i> cur	3 (4.67)	93340 (1.32)	0 (0.00)	0 (3.00)	521719 (1.46)	0 (0.00)
<i>epimaxk</i> 949	2 (1.50)	13036 (9.47)	0 (0.00)	0 (0.00)	46984 (16.25)	0 (0.00)
<i>phivtx1</i> 949	0 (2.00)	26609 (4.64)	0 (0.00)	0 (0.00)	168683 (4.53)	0 (0.00)
<i>opsveto</i> 949	0 (0.00)	33039 (3.74)	0 (0.00)	0 (0.00)	233980 (3.26)	0 (0.00)
<i>tdedge</i> 949	0 (0.00)	20060 (6.15)	0 (0.00)	0 (0.00)	108151 (7.06)	0 (0.00)
<i>tgccdpf</i> null	0 (0.00)	0 (123463.00)	0 (0.00)	0 (0.00)	0 (763506.00)	0 (0.00)
<i>rtghi</i> cur	0 (0.00)	503 (245.45)	0 (0.00)	0 (0.00)	2460 (310.37)	0 (0.00)
<i>etghi</i> cur	0 (0.00)	3869 (31.91)	0 (0.00)	0 (0.00)	18464 (41.35)	0 (0.00)
<i>tgdedx1</i> cur	0 (0.00)	13415 (9.20)	0 (0.00)	0 (0.00)	136457 (5.60)	0 (0.00)
<i>tgdedx2</i> cur	0 (0.00)	11102 (11.12)	0 (0.00)	0 (0.00)	63770 (11.97)	0 (0.00)
tgdedx cur	0 (0.00)	26918 (4.59)	0 (0.00)	0 (0.00)	210833 (3.62)	0 (0.00)
<i>tglike1</i> cur	0 (0.00)	14073 (8.77)	0 (0.00)	0 (0.00)	108578 (7.03)	0 (0.00)
<i>tglike2</i> cur	0 (0.00)	11339 (10.89)	0 (0.00)	0 (0.00)	97907 (7.80)	0 (0.00)
TGLIKE cur	0 (0.00)	18814 (6.56)	0 (0.00)	0 (0.00)	147246 (5.19)	0 (0.00)
<i>tgdb4</i> cur	0 (0.00)	9772 (12.63)	0 (0.00)	0 (0.00)	60906 (12.54)	0 (0.00)

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Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>tgdb4tip cur</i>	0 (0.00)	37628 (3.28)	0 (0.00)	0 (0.00)	208039 (3.67)	0 (0.00)
<i>tgdvxtip cur</i>	0 (0.00)	24915 (4.96)	0 (0.00)	0 (0.00)	125191 (6.10)	0 (0.00)
<i>tgdvxpi cur</i>	0 (0.00)	20592 (6.00)	0 (0.00)	0 (0.00)	86718 (8.80)	0 (0.00)
TGB4 <i>cur</i>	0 (0.00)	60906 (2.03)	0 (0.00)	0 (0.00)	314260 (2.43)	0 (0.00)
<i>pigap cur</i>	0 (0.00)	10166 (12.14)	0 (0.00)	0 (0.00)	68694 (11.11)	0 (0.00)
TGKIN	0 (0.00)	78596 (1.57)	0 (0.00)	0 (0.00)	481429 (1.59)	0 (0.00)
<i>tgpv cur</i>	0 (0.00)	41416 (2.98)	0 (0.00)	0 (0.00)	229186 (3.33)	0 (0.00)
Total Rej.	19.00			3.00		

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	16 (1.00)	763506 (0.00)	0 (763506.00)	1 (1.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	16 (1.00)	763506 (1.00)	0 (763506.00)	1 (1.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	16 (1.00)	763506 (1.00)	0 (763506.00)	1 (1.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	16 (1.00)	763506 (1.00)	0 (763506.00)	1 (1.00)
<i>pv(not tg) cur</i>	83669 (1.48)	39794 (3.10)	17 (1.06)	436068 (1.75)	327438 (2.33)	6 (6.00)
<i>tgqualt</i> 949	83669 (1.00)	0 (123463.00)	16 (1.00)	407068 (1.07)	54567 (13.99)	1 (1.00)
<i>timcon cur</i>	83008 (1.01)	1228 (100.54)	16 (1.00)	403347 (1.01)	8971 (85.11)	1 (1.00)
<i>epitg</i> 949	78549 (1.06)	6472 (19.08)	18 (1.12)	395836 (1.02)	19737 (38.68)	1 (1.00)
<i>tger</i> 949	77755 (1.01)	1248 (98.93)	16 (1.00)	388695 (1.02)	20789 (36.73)	1 (1.00)
<i>ticcon</i> 949	77753 (1.00)	8 (15432.90)	16 (1.00)	388684 (1.00)	117 (6525.69)	1 (1.00)
<i>dtgttp</i> 949	77733 (1.00)	63 (1959.73)	16 (1.00)	388631 (1.00)	653 (1169.23)	1 (1.00)
<i>rtdif</i> 949	75406 (1.03)	3513 (35.14)	16 (1.00)	378396 (1.03)	17941 (42.56)	1 (1.00)
<i>drp</i> 949	74808 (1.01)	859 (143.73)	16 (1.00)	371789 (1.02)	13627 (56.03)	1 (1.00)
<i>eiicon</i> 949	72364 (1.03)	4606 (26.80)	17 (1.06)	362833 (1.02)	32211 (23.70)	1 (1.00)
<i>kic</i> 949	62448 (1.16)	29209 (4.23)	17 (1.06)	318259 (1.14)	153781 (4.96)	1 (1.00)
<i>tggeo cur</i>	53684 (1.16)	48749 (2.53)	33 (2.06)	269900 (1.18)	319091 (2.39)	1 (1.00)
<i>tgzfool</i> 949	53402 (1.01)	963 (128.21)	16 (1.00)	268092 (1.01)	12333 (61.91)	1 (1.00)
<i>upvtrs cur</i>	46922 (1.14)	14831 (8.32)	19 (1.19)	244026 (1.10)	60718 (12.57)	1 (1.00)
<i>rvtrs cur</i>	46542 (1.01)	1942 (63.58)	16 (1.00)	241998 (1.01)	15533 (49.15)	1 (1.00)
<i>tgtcon cur</i>	44486 (1.05)	6850 (18.02)	17 (1.06)	229201 (1.06)	60727 (12.57)	1 (1.00)
<i>b4etcon cur</i>	43189 (1.03)	3834 (32.20)	17 (1.06)	222642 (1.03)	23606 (32.34)	1 (1.00)
<i>b4tim off</i>	43189 (1.00)	0 (123463.00)	16 (1.00)	80921 (2.75)	395143 (1.93)	1 (1.00)
<i>tgktim off</i>	43189 (1.00)	0 (123463.00)	16 (1.00)	80921 (1.00)	0 (763506.00)	1 (1.00)
<i>tgenr off</i>	43189 (1.00)	0 (123463.00)	16 (1.00)	78888 (1.03)	92823 (8.23)	1 (1.00)
<i>chi567 off</i>	43189 (1.00)	0 (123463.00)	16 (1.00)	27978 (2.82)	511542 (1.49)	2 (2.00)
<i>npitg</i>	42819 (1.01)	3645 (33.87)	16 (1.00)	27978 (1.00)	54567 (13.99)	1 (1.00)
<i>verrng off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	20194 (1.39)	321757 (2.37)	5 (5.00)
<i>chi5max off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	19326 (1.04)	225902 (3.38)	1 (1.00)
<i>angli off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	19258 (1.00)	53576 (14.25)	1 (1.00)
<i>ALLKfit off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	12212 (1.58)	291298 (2.62)	1 (1.00)
<i>tpics off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	10691 (1.14)	98026 (7.79)	1 (1.00)
<i>epionk off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	10360 (1.03)	21959 (34.77)	1 (1.00)
<i>ccd pul off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	3289 (3.15)	542535 (1.41)	8 (8.00)
<i>timkf off</i>	42819 (1.00)	0 (123463.00)	16 (1.00)	2250 (1.46)	553685 (1.38)	1 (1.00)
<i>DELCO</i> 949	8950 (4.78)	87138 (1.42)	917 (57.31)	683 (3.29)	544240 (1.40)	2 (2.00)
<i>b4dedx cur</i>	8646 (1.04)	53193 (2.32)	17 (1.06)	679 (1.01)	212707 (3.59)	1 (1.00)
<i>cktrs cur</i>	7787 (1.11)	19479 (6.34)	16 (1.00)	525 (1.29)	267206 (2.86)	1 (1.00)
<i>cktail cur</i>	7706 (1.01)	14913 (8.28)	16 (1.00)	521 (1.01)	170693 (4.47)	1 (1.00)
<i>BOX</i> 949	7706 (1.00)	0 (123463.00)	16 (1.00)	521 (1.00)	0 (763506.00)	1 (1.00)
<i>icodel14 cur</i>	7339 (1.05)	1683 (73.36)	16 (1.00)	521 (1.00)	4 (190877.00)	1 (1.00)
<i>cos3d cur</i>	6910 (1.06)	7800 (15.83)	16 (1.00)	506 (1.03)	58256 (13.11)	1 (1.00)
<i>layv4</i> 949	6910 (1.00)	0 (123463.00)	16 (1.00)	506 (1.00)	0 (763506.00)	1 (1.00)
<i>zfrf cur</i>	6201 (1.11)	13238 (9.33)	16 (1.00)	504 (1.00)	828 (922.11)	1 (1.00)
<i>zutout cur</i>	6182 (1.00)	362 (341.06)	16 (1.00)	503 (1.00)	592 (1289.71)	1 (1.00)
FIDUCIAL 949	6182 (1.00)	15446 (7.99)	16 (1.00)	503 (1.00)	59345 (12.87)	1 (1.00)
<i>utqual</i> 949	4741 (1.30)	35084 (3.52)	16 (1.00)	404 (1.25)	153963 (4.96)	1 (1.00)

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Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2
<i>rsdedxcl 949</i>	4741 (1.00)	0 (123463.00)	16 (1.00)	404 (1.00)	0 (763506.00)	1
<i>rsdedxmax cur</i>	4741 (1.00)	0 (123463.00)	16 (1.00)	404 (1.00)	0 (763506.00)	1
<i>rslike cur</i>	4741 (1.00)	0 (123463.00)	16 (1.00)	404 (1.00)	0 (763506.00)	1
<i>tgktim off</i>	4741 (1.00)	0 (123463.00)	16 (1.00)	404 (1.00)	0 (763506.00)	1
<i>rngmom cur</i>	4359 (1.09)	11521 (10.72)	16 (1.00)	64 (6.31)	223313 (3.42)	1
<i>prrf1 949</i>	3886 (1.12)	18246 (6.77)	16 (1.00)	62 (1.03)	24547 (31.10)	1
<i>prrfz 949</i>	3360 (1.16)	20553 (6.01)	16 (1.00)	59 (1.05)	51815 (14.74)	1
PRRF 949	3360 (1.00)	34294 (3.60)	16 (1.00)	59 (1.00)	73789 (10.35)	1
<i>rtghi cur</i>	3360 (1.00)	503 (245.45)	16 (1.00)	59 (1.00)	2460 (310.37)	1
<i>etghi cur</i>	3351 (1.00)	3869 (31.91)	16 (1.00)	59 (1.00)	18464 (41.35)	1
<i>tgdedx1 cur</i>	3067 (1.09)	13415 (9.20)	16 (1.00)	51 (1.16)	136457 (5.60)	1
<i>tgdedx2 cur</i>	2398 (1.28)	11102 (11.12)	16 (1.00)	51 (1.00)	63770 (11.97)	1
tgdedx cur	2398 (1.00)	26918 (4.59)	16 (1.00)	51 (1.00)	210833 (3.62)	1
<i>tglike1 cur</i>	2174 (1.10)	14073 (8.77)	16 (1.00)	51 (1.00)	108578 (7.03)	1
<i>tglike2 cur</i>	2107 (1.03)	11339 (10.89)	16 (1.00)	51 (1.00)	97907 (7.80)	1
TGLIKE cur	2107 (1.00)	18814 (6.56)	16 (1.00)	51 (1.00)	147246 (5.19)	1
<i>tgdb4 cur</i>	2038 (1.03)	9772 (12.63)	16 (1.00)	48 (1.06)	60906 (12.54)	1
<i>tgdb4tip cur</i>	1449 (1.41)	37628 (3.28)	16 (1.00)	45 (1.07)	208039 (3.67)	1
<i>tgdvxtip cur</i>	1336 (1.08)	24915 (4.96)	16 (1.00)	44 (1.02)	125191 (6.10)	1
<i>tgdvxpi cur</i>	930 (1.44)	20592 (6.00)	16 (1.00)	44 (1.00)	86718 (8.80)	1
TGB4 cur	930 (1.00)	60906 (2.03)	16 (1.00)	44 (1.00)	314260 (2.43)	1
<i>pigap cur</i>	863 (1.08)	10166 (12.14)	16 (1.00)	42 (1.05)	68694 (11.11)	1
KIN 949	863 (1.00)	104166 (1.19)	16 (1.00)	42 (1.00)	646729 (1.18)	1
<i>piflg cur</i>	858 (1.01)	2869 (43.03)	16 (1.00)	42 (1.00)	25958 (29.41)	1
<i>ev502 cur</i>	672 (1.28)	29072 (4.25)	16 (1.00)	34 (1.24)	218072 (3.50)	1
<i>elveto cur</i>	621 (1.08)	19129 (6.45)	16 (1.00)	31 (1.10)	184712 (4.13)	1
<i>tdfool cur</i>	619 (1.00)	9525 (12.96)	16 (1.00)	31 (1.00)	134180 (5.69)	1
<i>tdvarnn02 cur</i>	500 (1.24)	32692 (3.78)	16 (1.00)	23 (1.35)	283368 (2.69)	1
TD cur	500 (1.00)	57912 (2.13)	16 (1.00)	23 (1.00)	433258 (1.76)	1
<i>cpitrs · cpitail · bwtrs</i>	499 (1.00)	17994 (6.86)	16 (1.00)	15 (1.53)	347519 (2.20)	7
<i>b4trs cur</i>	17 (29.35)	40683 (3.03)	489 (30.56)	1 (15.00)	170529 (4.48)	15 (
<i>b4ccd cur</i>	16 (1.06)	896 (137.79)	17 (1.06)	1 (1.00)	9165 (83.31)	1
Total Rej.	31.19			15.00		

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

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 all
<i>BOX</i> 949	123463 (0.00)	0 (123463.00)	4 (1.00)	763506 (0.00)	0 (763506.00)	0 (0.00)
<i>rsdedxmax cur</i>	123463 (1.00)	0 (123463.00)	4 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rsdedxcl</i> 949	123463 (1.00)	0 (123463.00)	4 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>rslike cur</i>	123463 (1.00)	0 (123463.00)	4 (1.00)	763506 (1.00)	0 (763506.00)	0 (0.00)
<i>pv(not tg) cur</i>	83669 (1.48)	39794 (3.10)	4 (1.00)	436068 (1.75)	327438 (2.33)	3 (3.00)
<i>tgqualt</i> 949	83669 (1.00)	0 (123463.00)	4 (1.00)	407068 (1.07)	54567 (13.99)	0 (0.00)
<i>timcon cur</i>	83008 (1.01)	1228 (100.54)	4 (1.00)	403347 (1.01)	8971 (85.11)	0 (0.00)
<i>epitg</i> 949	78549 (1.06)	6472 (19.08)	4 (1.00)	395836 (1.02)	19737 (38.68)	0 (0.00)
<i>tger</i> 949	77755 (1.01)	1248 (98.93)	4 (1.00)	388695 (1.02)	20789 (36.73)	0 (0.00)
<i>ticcon</i> 949	77753 (1.00)	8 (15432.90)	4 (1.00)	388684 (1.00)	117 (6525.69)	0 (0.00)
<i>dtgttp</i> 949	77733 (1.00)	63 (1959.73)	4 (1.00)	388631 (1.00)	653 (1169.23)	0 (0.00)
<i>rtdif</i> 949	75406 (1.03)	3513 (35.14)	4 (1.00)	378396 (1.03)	17941 (42.56)	0 (0.00)
<i>drp</i> 949	74808 (1.01)	859 (143.73)	4 (1.00)	371789 (1.02)	13627 (56.03)	0 (0.00)
<i>eiicon</i> 949	72364 (1.03)	4606 (26.80)	4 (1.00)	362833 (1.02)	32211 (23.70)	0 (0.00)
<i>kic</i> 949	62448 (1.16)	29209 (4.23)	4 (1.00)	318259 (1.14)	153781 (4.96)	0 (0.00)
<i>tggeo cur</i>	53684 (1.16)	48749 (2.53)	5 (1.25)	269900 (1.18)	319091 (2.39)	0 (0.00)
<i>tgzfool</i> 949	53402 (1.01)	963 (128.21)	4 (1.00)	268092 (1.01)	12333 (61.91)	0 (0.00)
<i>upvtrs cur</i>	46922 (1.14)	14831 (8.32)	4 (1.00)	244026 (1.10)	60718 (12.57)	0 (0.00)
<i>rvtrs cur</i>	46542 (1.01)	1942 (63.58)	4 (1.00)	241998 (1.01)	15533 (49.15)	0 (0.00)
<i>tgtcon cur</i>	44486 (1.05)	6850 (18.02)	4 (1.00)	229201 (1.06)	60727 (12.57)	0 (0.00)
<i>b4etcon cur</i>	43189 (1.03)	3834 (32.20)	4 (1.00)	222642 (1.03)	23606 (32.34)	0 (0.00)
<i>b4tim off</i>	43189 (1.00)	0 (123463.00)	4 (1.00)	80921 (2.75)	395143 (1.93)	0 (0.00)
<i>tgktim off</i>	43189 (1.00)	0 (123463.00)	4 (1.00)	80921 (1.00)	0 (763506.00)	0 (0.00)
<i>tgenr off</i>	43189 (1.00)	0 (123463.00)	4 (1.00)	78888 (1.03)	92823 (8.23)	0 (0.00)
<i>chi567 off</i>	43189 (1.00)	0 (123463.00)	4 (1.00)	27978 (2.82)	511542 (1.49)	0 (0.00)
<i>npitg</i>	42819 (1.01)	3645 (33.87)	4 (1.00)	27978 (1.00)	54567 (13.99)	0 (0.00)
<i>verrng off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	20194 (1.39)	321757 (2.37)	0 (0.00)
<i>chi5max off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	19326 (1.04)	225902 (3.38)	0 (0.00)
<i>angli off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	19258 (1.00)	53576 (14.25)	0 (0.00)
<i>ALLKfit off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	12212 (1.58)	291298 (2.62)	0 (0.00)
<i>tpics off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	10691 (1.14)	98026 (7.79)	0 (0.00)
<i>epionk off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	10360 (1.03)	21959 (34.77)	0 (0.00)
<i>ccd pul off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	3289 (3.15)	542535 (1.41)	1 (1.00)
<i>timkf off</i>	42819 (1.00)	0 (123463.00)	4 (1.00)	2250 (1.46)	553685 (1.38)	0 (0.00)
<i>DELCO</i> 949	8950 (4.78)	87138 (1.42)	192 (48.00)	683 (3.29)	544240 (1.40)	0 (0.00)
<i>b4dedx cur</i>	8646 (1.04)	53193 (2.32)	4 (1.00)	679 (1.01)	212707 (3.59)	0 (0.00)
<i>cktrs cur</i>	7787 (1.11)	19479 (6.34)	4 (1.00)	525 (1.29)	267206 (2.86)	0 (0.00)
<i>cktail cur</i>	7706 (1.01)	14913 (8.28)	4 (1.00)	521 (1.01)	170693 (4.47)	0 (0.00)
<i>BOX</i> 949	7706 (1.00)	0 (123463.00)	4 (1.00)	521 (1.00)	0 (763506.00)	0 (0.00)
<i>icodel14 cur</i>	7339 (1.05)	1683 (73.36)	4 (1.00)	521 (1.00)	4 (190877.00)	0 (0.00)
<i>cos3d cur</i>	6910 (1.06)	7800 (15.83)	4 (1.00)	506 (1.03)	58256 (13.11)	0 (0.00)
<i>layv4</i> 949	6910 (1.00)	0 (123463.00)	4 (1.00)	506 (1.00)	0 (763506.00)	0 (0.00)
<i>zfrf cur</i>	6201 (1.11)	13238 (9.33)	4 (1.00)	504 (1.00)	828 (922.11)	0 (0.00)
<i>zutout cur</i>	6182 (1.00)	362 (341.06)	4 (1.00)	503 (1.00)	592 (1289.71)	0 (0.00)
FIDUCIAL 949	6182 (1.00)	15446 (7.99)	4 (1.00)	503 (1.00)	59345 (12.87)	0 (0.00)
<i>utqual</i> 949	4741 (1.30)	35084 (3.52)	4 (1.00)	404 (1.25)	153963 (4.96)	0 (0.00)

continued on next p

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2
<i>rsdedxcl</i> 949	4741 (1.00)	0 (123463.00)	4 (1.00)	404 (1.00)	0 (763506.00)	0
<i>rsdedxmax</i> cur	4741 (1.00)	0 (123463.00)	4 (1.00)	404 (1.00)	0 (763506.00)	0
<i>rslike</i> cur	4741 (1.00)	0 (123463.00)	4 (1.00)	404 (1.00)	0 (763506.00)	0
<i>tgktim</i> off	4741 (1.00)	0 (123463.00)	4 (1.00)	404 (1.00)	0 (763506.00)	0
<i>rngmom</i> cur	4359 (1.09)	11521 (10.72)	4 (1.00)	64 (6.31)	223313 (3.42)	0
<i>prrf1</i> 949	3886 (1.12)	18246 (6.77)	4 (1.00)	62 (1.03)	24547 (31.10)	0
<i>prrfz</i> 949	3360 (1.16)	20553 (6.01)	4 (1.00)	59 (1.05)	51815 (14.74)	0
PRRF 949	3360 (1.00)	34294 (3.60)	4 (1.00)	59 (1.00)	73789 (10.35)	0
<i>rtghi</i> cur	3360 (1.00)	503 (245.45)	4 (1.00)	59 (1.00)	2460 (310.37)	0
<i>etghi</i> cur	3351 (1.00)	3869 (31.91)	4 (1.00)	59 (1.00)	18464 (41.35)	0
<i>tgdedx1</i> cur	3067 (1.09)	13415 (9.20)	4 (1.00)	51 (1.16)	136457 (5.60)	0
<i>tgdedx2</i> cur	2398 (1.28)	11102 (11.12)	4 (1.00)	51 (1.00)	63770 (11.97)	0
tgdedx cur	2398 (1.00)	26918 (4.59)	4 (1.00)	51 (1.00)	210833 (3.62)	0
<i>tglike1</i> cur	2174 (1.10)	14073 (8.77)	4 (1.00)	51 (1.00)	108578 (7.03)	0
<i>tglike2</i> cur	2107 (1.03)	11339 (10.89)	4 (1.00)	51 (1.00)	97907 (7.80)	0
TGLIKE cur	2107 (1.00)	18814 (6.56)	4 (1.00)	51 (1.00)	147246 (5.19)	0
<i>tgdb4</i> cur	2038 (1.03)	9772 (12.63)	4 (1.00)	48 (1.06)	60906 (12.54)	0
<i>tgdb4tip</i> cur	1449 (1.41)	37628 (3.28)	4 (1.00)	45 (1.07)	208039 (3.67)	0
<i>tgdvxtip</i> cur	1336 (1.08)	24915 (4.96)	4 (1.00)	44 (1.02)	125191 (6.10)	0
<i>tgdvxpi</i> cur	930 (1.44)	20592 (6.00)	4 (1.00)	44 (1.00)	86718 (8.80)	0
TGB4 cur	930 (1.00)	60906 (2.03)	4 (1.00)	44 (1.00)	314260 (2.43)	0
<i>pigap</i> cur	863 (1.08)	10166 (12.14)	4 (1.00)	42 (1.05)	68694 (11.11)	0
KIN 949	863 (1.00)	104166 (1.19)	4 (1.00)	42 (1.00)	646729 (1.18)	0
<i>piflg</i> cur	858 (1.01)	2869 (43.03)	4 (1.00)	42 (1.00)	25958 (29.41)	0
<i>ev502</i> cur	672 (1.28)	29072 (4.25)	4 (1.00)	34 (1.24)	218072 (3.50)	0
<i>elveto</i> cur	621 (1.08)	19129 (6.45)	4 (1.00)	31 (1.10)	184712 (4.13)	0
<i>tdfool</i> cur	619 (1.00)	9525 (12.96)	4 (1.00)	31 (1.00)	134180 (5.69)	0
<i>tdvarnn02</i> cur	500 (1.24)	32692 (3.78)	4 (1.00)	23 (1.35)	283368 (2.69)	0
TD cur	500 (1.00)	57912 (2.13)	4 (1.00)	23 (1.00)	433258 (1.76)	0
<i>cpitrs · cpitail · bwtrs</i>	499 (1.00)	17994 (6.86)	4 (1.00)	15 (1.53)	347519 (2.20)	6
<i>targf</i> 949	262 (1.90)	23330 (5.29)	7 (1.75)	15 (1.00)	105229 (7.26)	0
<i>b4ekz</i> cur	145 (1.81)	93340 (1.32)	7 (1.75)	6 (2.50)	521719 (1.46)	0
<i>epimaxk</i> 949	135 (1.07)	13036 (9.47)	4 (1.00)	6 (1.00)	46984 (16.25)	0
<i>phivtx1</i> 949	68 (1.99)	26609 (4.64)	4 (1.00)	5 (1.20)	168683 (4.53)	0
<i>opsveto</i> 949	21 (3.24)	33039 (3.74)	8 (2.00)	0 (5.00)	233980 (3.26)	1
<i>tdedge</i> 949	20 (1.05)	20060 (6.15)	4 (1.00)	0 (0.00)	108151 (7.06)	0
<i>tgccdpf</i> null	20 (1.00)	0 (123463.00)	4 (1.00)	0 (0.00)	0 (763506.00)	0
<i>rtghi</i> cur	20 (1.00)	503 (245.45)	4 (1.00)	0 (0.00)	2460 (310.37)	0
<i>etghi</i> cur	20 (1.00)	3869 (31.91)	4 (1.00)	0 (0.00)	18464 (41.35)	0
<i>tgdedx1</i> cur	20 (1.00)	13415 (9.20)	4 (1.00)	0 (0.00)	136457 (5.60)	0
<i>tgdedx2</i> cur	20 (1.00)	11102 (11.12)	4 (1.00)	0 (0.00)	63770 (11.97)	0
tgdedx cur	20 (1.00)	26918 (4.59)	4 (1.00)	0 (0.00)	210833 (3.62)	0
<i>tglike1</i> cur	20 (1.00)	14073 (8.77)	4 (1.00)	0 (0.00)	108578 (7.03)	0
<i>tglike2</i> cur	20 (1.00)	11339 (10.89)	4 (1.00)	0 (0.00)	97907 (7.80)	0
TGLIKE cur	20 (1.00)	18814 (6.56)	4 (1.00)	0 (0.00)	147246 (5.19)	0
<i>tgdb4</i> cur	20 (1.00)	9772 (12.63)	4 (1.00)	0 (0.00)	60906 (12.54)	0

continued on nex

Cuts	pnn1e seq	pnn1e single	pnn1e allbut	earlyp2p2 seq	earlyp2p2 single	earlyp2p2 allbut
<i>tgdb4tip cur</i>	20 (1.00)	37628 (3.28)	4 (1.00)	0 (0.00)	208039 (3.67)	0 (0.00)
<i>tgdvxtip cur</i>	20 (1.00)	24915 (4.96)	4 (1.00)	0 (0.00)	125191 (6.10)	0 (0.00)
<i>tgdvxpi cur</i>	20 (1.00)	20592 (6.00)	4 (1.00)	0 (0.00)	86718 (8.80)	0 (0.00)
TGB4 <i>cur</i>	20 (1.00)	60906 (2.03)	4 (1.00)	0 (0.00)	314260 (2.43)	0 (0.00)
<i>pigap cur</i>	20 (1.00)	10166 (12.14)	4 (1.00)	0 (0.00)	68694 (11.11)	0 (0.00)
TGKIN	20 (1.00)	78596 (1.57)	4 (1.00)	0 (0.00)	481429 (1.59)	0 (0.00)
<i>tgpv cur</i>	4 (5.00)	41416 (2.98)	20 (5.00)	0 (0.00)	229186 (3.33)	0 (0.00)
Total Rej.	124.75			15.00		