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Numbers in tables created on Apr 18.

Data processed in Dec 2005 - Jan 2006.

This data has been ntuple skimmed with the following cuts: OR of 1/3 skims, BAD_RUN, BOX2, RSDEDXMAX, RSDEDXCL on the PNN2_SKIM set.

PNN1 = PNN1 Triggers Data

PNN2 = PNN1+PNN2 Trigger

The following tables are a summary of the long tables that follow.

<i>rejection(n)</i>	pnn1
<i>LooseSetup</i>	4387.670 (6)
<i>TD</i>	16223.000 (1)
<i>TD · KIN</i>	5607.000 (1)

Table 1: Summary: 1-Beam Rejection

<i>rejection(n)</i>	pnn1
<i>ALLcutsbelow</i>	10.000 (1)
<i>PV · TD</i>	10.000 (1)
<i>CkTRS · CkTail</i>	9.000 (1)
<i>B4DEDX</i>	0.000 (1)
<i>CpiTRS · CpiTail</i>	0.000 (1)

Table 2: Summary: 1-Beam Normalization

$rejection(n)$	pnn1
$K - K : BWTRS \cdot CkTRS \cdot CkTail$	134.875 (8)
$K - pi : BWTRS \cdot CpiTRS \cdot CpiTail$	2945.430 (7)

Table 3: Summary: 2-Beam Rejection

$rejection(n)$	pnn1
$K - K_n : B4TRS \cdot B4CCD$	1.000 (1)
$K - K_r : TG \cdot TGKIN \cdot TGPV$	1.000 (1)
$K - pi_n : B4TRS \cdot B4CCD$	58.000 (1)
$K - pi_r : TG \cdot TGKIN \cdot TGPV$	58.000 (1)

Table 4: Summary: 2-Beam Normalization

$Bkgrnd(\times 10^{-3})$	k034	e787	pnn1
1-BM	3.86 ± 2.36	1.6 ± 1.6	0.684 ± 0.684
2-BM KK	0.983 ± 0.983	141.0 ± 141.0	$2240870.000 \pm 2375820.000$
2-BM Kpi	0.106 ± 0.106	19.0 ± 19.0	0.018 ± 0.026
2-BM	1.14 ± 1.14	160.0 ± 160.0	$2240870.000 \pm 2240870.000$
Total	5.00 ± 2.62	161.6 ± 161.6	$2240870.000 \pm 2240870.000$

Table 5: Summary: Total Background

Table 6: 1-Beam Rejection Branch no. 1

Cuts	pnn1	pnn1single	pnn1allbut
$b4abm < 1.0$	147888 (0.000)	258421 (1.572)	1378 (229.667)
$PNN1box$	147888 (1.000)	0 (406309.000)	6 (1.000)
$rsdedxmax$	147888 (1.000)	0 (406309.000)	6 (1.000)
$rsdedxcl$	147888 (1.000)	0 (406309.000)	6 (1.000)
$rslike$	147888 (1.000)	0 (406309.000)	6 (1.000)
$rngmom$	144804 (1.021)	34566 (11.755)	14 (2.333)
$pv(nottg)$	99725 (1.452)	127488 (3.187)	6 (1.000)
$bwtrs$	84069 (1.186)	160036 (2.539)	9 (1.500)
$b4trs$	76591 (1.098)	152867 (2.658)	9 (1.500)
$b4ccd$	76552 (1.001)	3134 (129.646)	6 (1.000)
$tgqualt$	74344 (1.030)	11643 (34.897)	6 (1.000)
$timcon$	74036 (1.004)	4164 (97.577)	6 (1.000)
$epitg$	73440 (1.008)	26281 (15.460)	6 (1.000)
$tger$	73255 (1.003)	4055 (100.200)	6 (1.000)
$targf$	70952 (1.032)	87124 (4.664)	7 (1.167)
$ticcon$	70950 (1.000)	37 (10981.300)	6 (1.000)
$dtgtp$	70943 (1.000)	213 (1907.550)	6 (1.000)
$rtdif$	68237 (1.040)	10995 (36.954)	6 (1.000)
$epimax$	64637 (1.056)	46850 (8.673)	6 (1.000)
drp	63897 (1.012)	2768 (146.788)	6 (1.000)
$phivtx1$	49946 (1.279)	89508 (4.539)	7 (1.167)
$iccon$	48654 (1.027)	14154 (28.706)	6 (1.000)
$opsveto$	40929 (1.189)	113194 (3.589)	7 (1.167)
kic	37807 (1.083)	97949 (4.148)	6 (1.000)
$tggeo$	34214 (1.105)	162078 (2.507)	6 (1.000)
$tdedge$	32012 (1.069)	64276 (6.321)	6 (1.000)
$tgzfool$	31981 (1.001)	2627 (154.667)	6 (1.000)
$upvtrs$	28042 (1.140)	46028 (8.827)	6 (1.000)
$rvtrs$	27910 (1.005)	5560 (73.077)	6 (1.000)
$tgtcon$	27126 (1.029)	24328 (16.701)	6 (1.000)
$b4etcon$	26326 (1.030)	13125 (30.957)	7 (1.167)
$DEL(0.)$	6 (4387.670)	267068 (1.521)	26326 (4387.670)
Total Rej.	4387.670		

Table 7: 1-Beam Rejection Branch no. 2

Cuts	pnn1	pnn1single	pnn1allbut
$b4abm < 1.0$	147888 (0.000)	258421 (1.572)	4 (4.000)
$PNN1box$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rsdedxmax$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rsdedxcl$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rslike$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rngmom$	144804 (1.021)	34566 (11.755)	0 (0.000)
$pv(nottg)$	99725 (1.452)	127488 (3.187)	0 (0.000)
$bwtrs$	84069 (1.186)	160036 (2.539)	2 (2.000)
$b4trs$	76591 (1.098)	152867 (2.658)	3 (3.000)
$b4ccd$	76552 (1.001)	3134 (129.646)	0 (0.000)
$tgqualt$	74344 (1.030)	11643 (34.897)	0 (0.000)
$timcon$	74036 (1.004)	4164 (97.577)	0 (0.000)
$epitg$	73440 (1.008)	26281 (15.460)	0 (0.000)
$tger$	73255 (1.003)	4055 (100.200)	0 (0.000)
$targf$	70952 (1.032)	87124 (4.664)	1 (1.000)
$ticcon$	70950 (1.000)	37 (10981.300)	0 (0.000)
$dtgtp$	70943 (1.000)	213 (1907.550)	0 (0.000)
$rtdif$	68237 (1.040)	10995 (36.954)	0 (0.000)
$epimax$	64637 (1.056)	46850 (8.673)	0 (0.000)
drp	63897 (1.012)	2768 (146.788)	0 (0.000)
$phivtx1$	49946 (1.279)	89508 (4.539)	0 (0.000)
$iccon$	48654 (1.027)	14154 (28.706)	0 (0.000)
$opsveto$	40929 (1.189)	113194 (3.589)	0 (0.000)
kic	37807 (1.083)	97949 (4.148)	0 (0.000)
$tggeo$	34214 (1.105)	162078 (2.507)	0 (0.000)
$tdedge$	32012 (1.069)	64276 (6.321)	0 (0.000)
$tgzfool$	31981 (1.001)	2627 (154.667)	0 (0.000)
$upvtrs$	28042 (1.140)	46028 (8.827)	0 (0.000)
$rvtrs$	27910 (1.005)	5560 (73.077)	0 (0.000)
$tgtcon$	27126 (1.029)	24328 (16.701)	0 (0.000)
$b4etcon$	26326 (1.030)	13125 (30.957)	0 (0.000)
pi_flg	26296 (1.001)	8225 (49.399)	0 (0.000)
$ev502$	21741 (1.210)	83294 (4.878)	0 (0.000)
$elveto$	19939 (1.090)	57156 (7.109)	0 (0.000)
$tdfool$	19905 (1.002)	29074 (13.975)	0 (0.000)
$tdvarnn02$	16223 (1.227)	102111 (3.979)	0 (0.000)
TD	16223 (1.000)	177214 (2.293)	0 (0.000)
$DEL C(0.)$	0 (16223.000)	267068 (1.521)	16223 (16223.000)
Total Rej.	16223.000		

Table 8: 1-Beam Rejection Branch no. 3

Cuts	pnn1	pnn1single	pnn1allbut
$b4abm < 1.0$	147888 (0.000)	258421 (1.572)	0 (0.000)
$PNN1box$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rsdedxmax$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rsdedxcl$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rslike$	147888 (1.000)	0 (406309.000)	0 (0.000)
$rngmom$	144804 (1.021)	34566 (11.755)	0 (0.000)
$pv(nottg)$	99725 (1.452)	127488 (3.187)	0 (0.000)
$bwtrs$	84069 (1.186)	160036 (2.539)	0 (0.000)
$b4trs$	76591 (1.098)	152867 (2.658)	0 (0.000)
$b4ccd$	76552 (1.001)	3134 (129.646)	0 (0.000)
$tgqualt$	74344 (1.030)	11643 (34.897)	0 (0.000)
$timcon$	74036 (1.004)	4164 (97.577)	0 (0.000)
$epitg$	73440 (1.008)	26281 (15.460)	0 (0.000)
$tger$	73255 (1.003)	4055 (100.200)	0 (0.000)
$targf$	70952 (1.032)	87124 (4.664)	0 (0.000)
$ticcon$	70950 (1.000)	37 (10981.300)	0 (0.000)
$dtgttp$	70943 (1.000)	213 (1907.550)	0 (0.000)
$rtdif$	68237 (1.040)	10995 (36.954)	0 (0.000)
$epimax$	64637 (1.056)	46850 (8.673)	0 (0.000)
drp	63897 (1.012)	2768 (146.788)	0 (0.000)
$phivtx1$	49946 (1.279)	89508 (4.539)	0 (0.000)
$iccon$	48654 (1.027)	14154 (28.706)	0 (0.000)
$opsveto$	40929 (1.189)	113194 (3.589)	0 (0.000)
kic	37807 (1.083)	97949 (4.148)	0 (0.000)
$tggeo$	34214 (1.105)	162078 (2.507)	0 (0.000)
$tdedge$	32012 (1.069)	64276 (6.321)	0 (0.000)
$tgzfool$	31981 (1.001)	2627 (154.667)	0 (0.000)
$upvtrs$	28042 (1.140)	46028 (8.827)	0 (0.000)
$rvtrs$	27910 (1.005)	5560 (73.077)	0 (0.000)
$tgtcon$	27126 (1.029)	24328 (16.701)	0 (0.000)
$b4etcon$	26326 (1.030)	13125 (30.957)	0 (0.000)
pi_flg	26296 (1.001)	8225 (49.399)	0 (0.000)
$ev502$	21741 (1.210)	83294 (4.878)	0 (0.000)
$elveto$	19939 (1.090)	57156 (7.109)	0 (0.000)
$tdfool$	19905 (1.002)	29074 (13.975)	0 (0.000)
$tdvarnn02$	16223 (1.227)	102111 (3.979)	0 (0.000)
TD	16223 (1.000)	177214 (2.293)	0 (0.000)
$PNN1box$	16223 (1.000)	0 (406309.000)	0 (0.000)
$icodel14$	16200 (1.001)	4891 (83.073)	0 (0.000)
$cos3d$	15313 (1.058)	29004 (14.009)	0 (0.000)
$layv4$	15313 (1.000)	2 (203155.000)	0 (0.000)
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Cuts	pnn1	pnn1single	pnn1allbut
<i>zfrf</i>	14281 (1.072)	46754 (8.690)	0 (0.000)
<i>zutout</i>	14280 (1.000)	1020 (398.342)	0 (0.000)
FIDUCIAL	14280 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	13014 (1.097)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	13014 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	13014 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	13014 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	13014 (1.000)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	12253 (1.062)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	10882 (1.126)	56862 (7.146)	0 (0.000)
PRRF	10882 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	10861 (1.002)	1850 (219.626)	0 (0.000)
<i>etghi</i>	10708 (1.014)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	10276 (1.042)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	9934 (1.034)	37974 (10.700)	0 (0.000)
TGDEDX	9934 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	9666 (1.028)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	9367 (1.032)	37666 (10.787)	0 (0.000)
TGLIKE	9367 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	9088 (1.031)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	7145 (1.272)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	6194 (1.154)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	5793 (1.069)	72912 (5.573)	0 (0.000)
TGB4	5793 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	5607 (1.033)	39114 (10.388)	0 (0.000)
KIN	5607 (1.000)	329567 (1.233)	0 (0.000)
<i>DEL(0.)</i>	0 (5607.000)	267068 (1.521)	5607 (5607.000)
Total Rej.	5607.000		

Table 9: 1-Beam Normalization Branch no. 1

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	371743 (1.093)	34566 (11.755)	0 (0.000)
<i>PNN1box</i>	371743 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	369525 (1.006)	4891 (83.073)	0 (0.000)
<i>cos3d</i>	343193 (1.077)	29004 (14.009)	0 (0.000)
<i>layv4</i>	343191 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	321118 (1.069)	46754 (8.690)	0 (0.000)
<i>zutout</i>	321007 (1.000)	1020 (398.342)	0 (0.000)
FIDUCIAL	321007 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	286734 (1.120)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	286734 (1.000)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	271020 (1.058)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	239615 (1.131)	56862 (7.146)	0 (0.000)
PRRF	239615 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	238651 (1.004)	1850 (219.626)	0 (0.000)
<i>etghi</i>	229905 (1.038)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	205105 (1.121)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	184288 (1.113)	37974 (10.700)	0 (0.000)
tgdedx	184288 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	169657 (1.086)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	162835 (1.042)	37666 (10.787)	0 (0.000)
TGLIKE	162835 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	151743 (1.073)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	111117 (1.366)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	93588 (1.187)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	82539 (1.134)	72912 (5.573)	0 (0.000)
TGB4	82539 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	76742 (1.076)	39114 (10.388)	0 (0.000)
KIN	76742 (1.000)	329567 (1.233)	0 (0.000)
<i>tgpv</i>	57405 (1.337)	152300 (2.668)	0 (0.000)
<i>bwtrs</i>	49683 (1.155)	160036 (2.539)	0 (0.000)
<i>b4trs</i>	45200 (1.099)	152867 (2.658)	0 (0.000)
<i>b4ccd</i>	45164 (1.001)	3134 (129.646)	0 (0.000)
<i>tgqualt</i>	43813 (1.031)	11643 (34.897)	0 (0.000)

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Cuts	pnn1	pnn1single	pnn1allbut
<i>timcon</i>	43682 (1.003)	4164 (97.577)	0 (0.000)
<i>epitg</i>	43639 (1.001)	26281 (15.460)	0 (0.000)
<i>tger</i>	43622 (1.000)	4055 (100.200)	0 (0.000)
<i>targf</i>	42069 (1.037)	87124 (4.664)	0 (0.000)
<i>ticcon</i>	42068 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	42068 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	41756 (1.007)	10995 (36.954)	0 (0.000)
<i>epimax</i>	40470 (1.032)	46850 (8.673)	0 (0.000)
<i>drp</i>	40370 (1.002)	2768 (146.788)	0 (0.000)
<i>phivtx1</i>	32676 (1.235)	89508 (4.539)	0 (0.000)
<i>iccon</i>	31876 (1.025)	14154 (28.706)	0 (0.000)
<i>opsveto</i>	27461 (1.161)	113194 (3.589)	0 (0.000)
<i>kic</i>	22295 (1.232)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	19454 (1.146)	162078 (2.507)	0 (0.000)
<i>tdedge</i>	18643 (1.044)	64276 (6.321)	0 (0.000)
<i>tgzfool</i>	18641 (1.000)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	16302 (1.143)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	16230 (1.004)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	16005 (1.014)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	15525 (1.031)	13125 (30.957)	0 (0.000)
<i>b4ekz</i>	1869 (8.307)	306407 (1.326)	0 (0.000)
<i>b4ekzic</i>	1869 (1.000)	28203 (14.407)	0 (0.000)
<i>b4tim</i>	288 (6.490)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	288 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	288 (1.000)	29071 (13.976)	0 (0.000)
<i>chi567</i>	127 (2.268)	306529 (1.326)	0 (0.000)
<i>npitg</i>	127 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	103 (1.233)	178767 (2.273)	0 (0.000)
<i>chi5max</i>	98 (1.051)	186547 (2.178)	0 (0.000)
<i>angli</i>	98 (1.000)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	45 (2.178)	170930 (2.377)	0 (0.000)
<i>tpics</i>	36 (1.250)	67405 (6.028)	0 (0.000)
<i>epionk</i>	36 (1.000)	12851 (31.617)	0 (0.000)
<i>ccdpu</i>	30 (1.200)	122742 (3.310)	0 (0.000)
<i>timkf</i>	14 (2.143)	311919 (1.303)	0 (0.000)
<i>DELIC(0.)</i>	10 (1.400)	139241 (2.918)	0 (0.000)
<i>cpitrs</i>	10 (1.000)	342374 (1.187)	0 (0.000)
<i>cpitail</i>	10 (1.000)	63628 (6.386)	0 (0.000)
<i>b4dedx</i>	10 (1.000)	170172 (2.388)	0 (0.000)
<i>cktrs</i>	0 (10.000)	53841 (7.546)	0 (0.000)
<i>cktail</i>	0 (0.000)	40156 (10.118)	0 (0.000)
<i>PV</i>	0 (0.000)	231483 (1.755)	0 (0.000)

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Cuts	pnn1	pnn1single	pnn1allbut
<i>pi_flg</i>	0 (0.000)	8225 (49.399)	0 (0.000)
<i>ev502</i>	0 (0.000)	83294 (4.878)	0 (0.000)
<i>elveto</i>	0 (0.000)	57156 (7.109)	0 (0.000)
<i>tdfool</i>	0 (0.000)	29074 (13.975)	0 (0.000)
<i>tdvarnn02</i>	0 (0.000)	102111 (3.979)	0 (0.000)
TD	0 (0.000)	177214 (2.293)	0 (0.000)
Total Rej.	10.000		

Table 10: 1-Beam Normalization Branch no. 2

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	1 (1.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	1 (1.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	1 (1.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	1 (1.000)
<i>rngmom</i>	371743 (1.093)	34566 (11.755)	1 (1.000)
<i>PNN1box</i>	371743 (1.000)	0 (406309.000)	1 (1.000)
<i>icodel14</i>	369525 (1.006)	4891 (83.073)	1 (1.000)
<i>cos3d</i>	343193 (1.077)	29004 (14.009)	1 (1.000)
<i>layv4</i>	343191 (1.000)	2 (203155.000)	1 (1.000)
<i>zfrf</i>	321118 (1.069)	46754 (8.690)	1 (1.000)
<i>zutout</i>	321007 (1.000)	1020 (398.342)	1 (1.000)
FIDUCIAL	321007 (1.000)	54666 (7.433)	1 (1.000)
<i>utcqual</i>	286734 (1.120)	49245 (8.251)	1 (1.000)
<i>rsdedxcl</i>	286734 (1.000)	0 (406309.000)	1 (1.000)
<i>rsdedxmax</i>	286734 (1.000)	0 (406309.000)	1 (1.000)
<i>rslike</i>	286734 (1.000)	0 (406309.000)	1 (1.000)
<i>tgktim</i>	286734 (1.000)	0 (406309.000)	1 (1.000)
<i>rngmom</i>	286734 (1.000)	34566 (11.755)	1 (1.000)
<i>prrf1</i>	271020 (1.058)	27982 (14.520)	1 (1.000)
<i>prrfz</i>	239615 (1.131)	56862 (7.146)	1 (1.000)
PRRF	239615 (1.000)	76908 (5.283)	1 (1.000)
<i>rtghi</i>	238651 (1.004)	1850 (219.626)	1 (1.000)
<i>etghi</i>	229905 (1.038)	13473 (30.157)	1 (1.000)
<i>tgdedx1</i>	205105 (1.121)	45644 (8.902)	1 (1.000)
<i>tgdedx2</i>	184288 (1.113)	37974 (10.700)	1 (1.000)
tgdedx	184288 (1.000)	91526 (4.439)	1 (1.000)
<i>tglike1</i>	169657 (1.086)	47741 (8.511)	1 (1.000)
<i>tglike2</i>	162835 (1.042)	37666 (10.787)	1 (1.000)
TGLIKE	162835 (1.000)	63690 (6.379)	1 (1.000)
<i>tgdb4</i>	151743 (1.073)	30530 (13.309)	1 (1.000)
<i>tgdb4tip</i>	111117 (1.366)	125231 (3.244)	1 (1.000)
<i>tgdvxtip</i>	93588 (1.187)	83374 (4.873)	1 (1.000)
<i>tgdvxpi</i>	82539 (1.134)	72912 (5.573)	1 (1.000)
TGB4	82539 (1.000)	205051 (1.982)	1 (1.000)
<i>pigap</i>	76742 (1.076)	39114 (10.388)	1 (1.000)
KIN	76742 (1.000)	329567 (1.233)	1 (1.000)
<i>tgpv</i>	57405 (1.337)	152300 (2.668)	1 (1.000)
<i>bwtrs</i>	49683 (1.155)	160036 (2.539)	1 (1.000)
<i>b4trs</i>	45200 (1.099)	152867 (2.658)	1 (1.000)
<i>b4ccd</i>	45164 (1.001)	3134 (129.646)	1 (1.000)
<i>tgqualt</i>	43813 (1.031)	11643 (34.897)	1 (1.000)

continued on next page

Cuts	pnn1	pnnlsingle	pnnlallbut
<i>timcon</i>	43682 (1.003)	4164 (97.577)	1 (1.000)
<i>epitg</i>	43639 (1.001)	26281 (15.460)	1 (1.000)
<i>tger</i>	43622 (1.000)	4055 (100.200)	1 (1.000)
<i>targf</i>	42069 (1.037)	87124 (4.664)	1 (1.000)
<i>ticcon</i>	42068 (1.000)	37 (10981.300)	1 (1.000)
<i>dtgttp</i>	42068 (1.000)	213 (1907.550)	1 (1.000)
<i>rtdif</i>	41756 (1.007)	10995 (36.954)	1 (1.000)
<i>epimax</i>	40470 (1.032)	46850 (8.673)	1 (1.000)
<i>drp</i>	40370 (1.002)	2768 (146.788)	1 (1.000)
<i>phivtx1</i>	32676 (1.235)	89508 (4.539)	1 (1.000)
<i>eccon</i>	31876 (1.025)	14154 (28.706)	1 (1.000)
<i>opsveto</i>	27461 (1.161)	113194 (3.589)	1 (1.000)
<i>kic</i>	22295 (1.232)	97949 (4.148)	1 (1.000)
<i>tggeo</i>	19454 (1.146)	162078 (2.507)	1 (1.000)
<i>tdedge</i>	18643 (1.044)	64276 (6.321)	1 (1.000)
<i>tgzfool</i>	18641 (1.000)	2627 (154.667)	1 (1.000)
<i>upvtrs</i>	16302 (1.143)	46028 (8.827)	1 (1.000)
<i>rvtrs</i>	16230 (1.004)	5560 (73.077)	1 (1.000)
<i>tgtcon</i>	16005 (1.014)	24328 (16.701)	1 (1.000)
<i>b4etcon</i>	15525 (1.031)	13125 (30.957)	1 (1.000)
<i>b4ekz</i>	1869 (8.307)	306407 (1.326)	2 (2.000)
<i>b4ekzic</i>	1869 (1.000)	28203 (14.407)	1 (1.000)
<i>b4tim</i>	288 (6.490)	235902 (1.722)	1 (1.000)
<i>tgktim</i>	288 (1.000)	0 (406309.000)	1 (1.000)
<i>tgenr</i>	288 (1.000)	29071 (13.976)	1 (1.000)
<i>chi567</i>	127 (2.268)	306529 (1.326)	2 (2.000)
<i>npitg</i>	127 (1.000)	11643 (34.897)	1 (1.000)
<i>verrng</i>	103 (1.233)	178767 (2.273)	1 (1.000)
<i>chi5max</i>	98 (1.051)	186547 (2.178)	1 (1.000)
<i>angli</i>	98 (1.000)	10965 (37.055)	1 (1.000)
<i>ALLK fit</i>	45 (2.178)	170930 (2.377)	5 (5.000)
<i>tpics</i>	36 (1.250)	67405 (6.028)	1 (1.000)
<i>epionk</i>	36 (1.000)	12851 (31.617)	1 (1.000)
<i>ccdpu</i>	30 (1.200)	122742 (3.310)	2 (2.000)
<i>timkf</i>	14 (2.143)	311919 (1.303)	3 (3.000)
<i>DEL(0.)</i>	10 (1.400)	139241 (2.918)	1 (1.000)
<i>cpitrs</i>	10 (1.000)	342374 (1.187)	1 (1.000)
<i>cpitail</i>	10 (1.000)	63628 (6.386)	1 (1.000)
<i>b4dedx</i>	10 (1.000)	170172 (2.388)	1 (1.000)
<i>cktrs · cktail</i>	10 (1.000)	341207 (1.191)	1 (1.000)
<i>PV</i>	2 (5.000)	231483 (1.755)	6 (6.000)
<i>pi flg</i>	2 (1.000)	8225 (49.399)	1 (1.000)
<i>continued on next page</i>			

Cuts	pnn1	pnn1single	pnn1allbut
<i>ev502</i>	2 (1.000)	83294 (4.878)	1 (1.000)
<i>elveto</i>	2 (1.000)	57156 (7.109)	1 (1.000)
<i>tdfool</i>	2 (1.000)	29074 (13.975)	1 (1.000)
<i>tdvarnn02</i>	1 (2.000)	102111 (3.979)	1 (1.000)
TD	1 (1.000)	177214 (2.293)	1 (1.000)
Total Rej.	10.000		

Table 11: 1-Beam Normalization Branch no. 3

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	371743 (1.093)	34566 (11.755)	0 (0.000)
<i>PNN1box</i>	371743 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	369525 (1.006)	4891 (83.073)	0 (0.000)
<i>cos3d</i>	343193 (1.077)	29004 (14.009)	0 (0.000)
<i>layv4</i>	343191 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	321118 (1.069)	46754 (8.690)	0 (0.000)
<i>zutout</i>	321007 (1.000)	1020 (398.342)	0 (0.000)
FIDUCIAL	321007 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	286734 (1.120)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	286734 (1.000)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	271020 (1.058)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	239615 (1.131)	56862 (7.146)	0 (0.000)
PRRF	239615 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	238651 (1.004)	1850 (219.626)	0 (0.000)
<i>etghi</i>	229905 (1.038)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	205105 (1.121)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	184288 (1.113)	37974 (10.700)	0 (0.000)
tgdedx	184288 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	169657 (1.086)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	162835 (1.042)	37666 (10.787)	0 (0.000)
TGLIKE	162835 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	151743 (1.073)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	111117 (1.366)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	93588 (1.187)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	82539 (1.134)	72912 (5.573)	0 (0.000)
TGB4	82539 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	76742 (1.076)	39114 (10.388)	0 (0.000)
KIN	76742 (1.000)	329567 (1.233)	0 (0.000)
<i>tgpv</i>	57405 (1.337)	152300 (2.668)	0 (0.000)
<i>bwtrs</i>	49683 (1.155)	160036 (2.539)	0 (0.000)
<i>b4trs</i>	45200 (1.099)	152867 (2.658)	0 (0.000)
<i>b4ccd</i>	45164 (1.001)	3134 (129.646)	0 (0.000)
<i>tgqualt</i>	43813 (1.031)	11643 (34.897)	0 (0.000)

continued on next page

Cuts	pnn1	pnn1single	pnn1allbut
<i>timcon</i>	43682 (1.003)	4164 (97.577)	0 (0.000)
<i>epitg</i>	43639 (1.001)	26281 (15.460)	0 (0.000)
<i>tger</i>	43622 (1.000)	4055 (100.200)	0 (0.000)
<i>targf</i>	42069 (1.037)	87124 (4.664)	0 (0.000)
<i>ticcon</i>	42068 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	42068 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	41756 (1.007)	10995 (36.954)	0 (0.000)
<i>epimax</i>	40470 (1.032)	46850 (8.673)	0 (0.000)
<i>drp</i>	40370 (1.002)	2768 (146.788)	0 (0.000)
<i>phivtx1</i>	32676 (1.235)	89508 (4.539)	0 (0.000)
<i>eccon</i>	31876 (1.025)	14154 (28.706)	0 (0.000)
<i>opsveto</i>	27461 (1.161)	113194 (3.589)	0 (0.000)
<i>kic</i>	22295 (1.232)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	19454 (1.146)	162078 (2.507)	0 (0.000)
<i>tdedge</i>	18643 (1.044)	64276 (6.321)	0 (0.000)
<i>tgzfool</i>	18641 (1.000)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	16302 (1.143)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	16230 (1.004)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	16005 (1.014)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	15525 (1.031)	13125 (30.957)	0 (0.000)
<i>b4ekz</i>	1869 (8.307)	306407 (1.326)	0 (0.000)
<i>b4ekzic</i>	1869 (1.000)	28203 (14.407)	0 (0.000)
<i>b4tim</i>	288 (6.490)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	288 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	288 (1.000)	29071 (13.976)	0 (0.000)
<i>chi567</i>	127 (2.268)	306529 (1.326)	0 (0.000)
<i>npitg</i>	127 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	103 (1.233)	178767 (2.273)	0 (0.000)
<i>chi5max</i>	98 (1.051)	186547 (2.178)	0 (0.000)
<i>angli</i>	98 (1.000)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	45 (2.178)	170930 (2.377)	0 (0.000)
<i>tpics</i>	36 (1.250)	67405 (6.028)	0 (0.000)
<i>epionk</i>	36 (1.000)	12851 (31.617)	0 (0.000)
<i>ccdpu1</i>	30 (1.200)	122742 (3.310)	0 (0.000)
<i>timkf</i>	14 (2.143)	311919 (1.303)	0 (0.000)
<i>DEL C(0.)</i>	10 (1.400)	139241 (2.918)	4 (4.000)
<i>cpitrs</i>	10 (1.000)	342374 (1.187)	0 (0.000)
<i>cpitail</i>	10 (1.000)	63628 (6.386)	0 (0.000)
<i>b4dedx</i>	10 (1.000)	170172 (2.388)	0 (0.000)
<i>PV · TD</i>	9 (1.111)	95035 (4.275)	0 (0.000)
<i>cktrs</i>	0 (9.000)	53841 (7.546)	0 (0.000)
<i>cktail</i>	0 (0.000)	40156 (10.118)	0 (0.000)
<i>continued on next page</i>			

Cuts	pnn1	pnn1single	pnn1allbut
Total Rej.	9.000		

Table 12: 1-Beam Normalization Branch no. 4

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	371743 (1.093)	34566 (11.755)	0 (0.000)
<i>PNN1box</i>	371743 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	369525 (1.006)	4891 (83.073)	0 (0.000)
<i>cos3d</i>	343193 (1.077)	29004 (14.009)	0 (0.000)
<i>layv4</i>	343191 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	321118 (1.069)	46754 (8.690)	0 (0.000)
<i>zutout</i>	321007 (1.000)	1020 (398.342)	0 (0.000)
FIDUCIAL	321007 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	286734 (1.120)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	286734 (1.000)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	271020 (1.058)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	239615 (1.131)	56862 (7.146)	0 (0.000)
PRRF	239615 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	238651 (1.004)	1850 (219.626)	0 (0.000)
<i>etghi</i>	229905 (1.038)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	205105 (1.121)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	184288 (1.113)	37974 (10.700)	0 (0.000)
tgdedx	184288 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	169657 (1.086)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	162835 (1.042)	37666 (10.787)	0 (0.000)
TGLIKE	162835 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	151743 (1.073)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	111117 (1.366)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	93588 (1.187)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	82539 (1.134)	72912 (5.573)	0 (0.000)
TGB4	82539 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	76742 (1.076)	39114 (10.388)	0 (0.000)
KIN	76742 (1.000)	329567 (1.233)	0 (0.000)
<i>tgpv</i>	57405 (1.337)	152300 (2.668)	0 (0.000)
<i>bwtrs</i>	49683 (1.155)	160036 (2.539)	0 (0.000)
<i>b4trs</i>	45200 (1.099)	152867 (2.658)	0 (0.000)
<i>b4ccd</i>	45164 (1.001)	3134 (129.646)	0 (0.000)
<i>tgqualt</i>	43813 (1.031)	11643 (34.897)	0 (0.000)

continued on next page

Cuts	pnn1	pnn1single	pnn1allbut
<i>timcon</i>	43682 (1.003)	4164 (97.577)	0 (0.000)
<i>epitg</i>	43639 (1.001)	26281 (15.460)	0 (0.000)
<i>tger</i>	43622 (1.000)	4055 (100.200)	0 (0.000)
<i>targf</i>	42069 (1.037)	87124 (4.664)	0 (0.000)
<i>ticcon</i>	42068 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	42068 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	41756 (1.007)	10995 (36.954)	0 (0.000)
<i>epimax</i>	40470 (1.032)	46850 (8.673)	0 (0.000)
<i>drp</i>	40370 (1.002)	2768 (146.788)	0 (0.000)
<i>phivtx1</i>	32676 (1.235)	89508 (4.539)	0 (0.000)
<i>eccon</i>	31876 (1.025)	14154 (28.706)	0 (0.000)
<i>opsveto</i>	27461 (1.161)	113194 (3.589)	0 (0.000)
<i>kic</i>	22295 (1.232)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	19454 (1.146)	162078 (2.507)	0 (0.000)
<i>tdedge</i>	18643 (1.044)	64276 (6.321)	0 (0.000)
<i>tgzfool</i>	18641 (1.000)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	16302 (1.143)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	16230 (1.004)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	16005 (1.014)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	15525 (1.031)	13125 (30.957)	0 (0.000)
<i>b4ekz</i>	1869 (8.307)	306407 (1.326)	0 (0.000)
<i>b4ekzic</i>	1869 (1.000)	28203 (14.407)	0 (0.000)
<i>b4tim</i>	288 (6.490)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	288 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	288 (1.000)	29071 (13.976)	0 (0.000)
<i>chi567</i>	127 (2.268)	306529 (1.326)	0 (0.000)
<i>npitg</i>	127 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	103 (1.233)	178767 (2.273)	0 (0.000)
<i>chi5max</i>	98 (1.051)	186547 (2.178)	0 (0.000)
<i>angli</i>	98 (1.000)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	45 (2.178)	170930 (2.377)	0 (0.000)
<i>tpics</i>	36 (1.250)	67405 (6.028)	0 (0.000)
<i>epionk</i>	36 (1.000)	12851 (31.617)	0 (0.000)
<i>ccdpu</i>	30 (1.200)	122742 (3.310)	1 (1.000)
<i>timkf</i>	14 (2.143)	311919 (1.303)	2 (2.000)
<i>DEL(0.)</i>	10 (1.400)	139241 (2.918)	0 (0.000)
<i>cktrs</i>	0 (10.000)	53841 (7.546)	0 (0.000)
<i>cktail</i>	0 (0.000)	40156 (10.118)	0 (0.000)
<i>pv(nottg)</i>	0 (0.000)	127488 (3.187)	0 (0.000)
<i>piflg</i>	0 (0.000)	8225 (49.399)	0 (0.000)
<i>ev502</i>	0 (0.000)	83294 (4.878)	0 (0.000)
<i>elveto</i>	0 (0.000)	57156 (7.109)	0 (0.000)

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Cuts	pnn1	pnn1single	pnn1allbut
<i>tdfool</i>	0 (0.000)	29074 (13.975)	0 (0.000)
<i>tdvarnn02</i>	0 (0.000)	102111 (3.979)	0 (0.000)
TD	0 (0.000)	177214 (2.293)	0 (0.000)
<i>cpitrs · cpitail</i>	0 (0.000)	63528 (6.396)	0 (0.000)
<i>b4dedx</i>	0 (0.000)	170172 (2.388)	0 (0.000)
Total Rej.	0.000		

Table 13: 1-Beam Normalization Branch no. 5

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	371743 (1.093)	34566 (11.755)	0 (0.000)
<i>PNN1box</i>	371743 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	369525 (1.006)	4891 (83.073)	0 (0.000)
<i>cos3d</i>	343193 (1.077)	29004 (14.009)	0 (0.000)
<i>layv4</i>	343191 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	321118 (1.069)	46754 (8.690)	0 (0.000)
<i>zutout</i>	321007 (1.000)	1020 (398.342)	0 (0.000)
FIDUCIAL	321007 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	286734 (1.120)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	286734 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	286734 (1.000)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	271020 (1.058)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	239615 (1.131)	56862 (7.146)	0 (0.000)
PRRF	239615 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	238651 (1.004)	1850 (219.626)	0 (0.000)
<i>etghi</i>	229905 (1.038)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	205105 (1.121)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	184288 (1.113)	37974 (10.700)	0 (0.000)
tgdedx	184288 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	169657 (1.086)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	162835 (1.042)	37666 (10.787)	0 (0.000)
TGLIKE	162835 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	151743 (1.073)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	111117 (1.366)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	93588 (1.187)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	82539 (1.134)	72912 (5.573)	0 (0.000)
TGB4	82539 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	76742 (1.076)	39114 (10.388)	0 (0.000)
KIN	76742 (1.000)	329567 (1.233)	0 (0.000)
<i>tgpv</i>	57405 (1.337)	152300 (2.668)	0 (0.000)
<i>bwtrs</i>	49683 (1.155)	160036 (2.539)	0 (0.000)
<i>b4trs</i>	45200 (1.099)	152867 (2.658)	0 (0.000)
<i>b4ccd</i>	45164 (1.001)	3134 (129.646)	0 (0.000)
<i>tgqualt</i>	43813 (1.031)	11643 (34.897)	0 (0.000)

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Cuts	pnn1	pnn1single	pnn1allbut
<i>timcon</i>	43682 (1.003)	4164 (97.577)	0 (0.000)
<i>epitg</i>	43639 (1.001)	26281 (15.460)	0 (0.000)
<i>tger</i>	43622 (1.000)	4055 (100.200)	0 (0.000)
<i>targf</i>	42069 (1.037)	87124 (4.664)	0 (0.000)
<i>ticcon</i>	42068 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	42068 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	41756 (1.007)	10995 (36.954)	0 (0.000)
<i>epimax</i>	40470 (1.032)	46850 (8.673)	0 (0.000)
<i>drp</i>	40370 (1.002)	2768 (146.788)	0 (0.000)
<i>phivtx1</i>	32676 (1.235)	89508 (4.539)	0 (0.000)
<i>iccon</i>	31876 (1.025)	14154 (28.706)	0 (0.000)
<i>opsveto</i>	27461 (1.161)	113194 (3.589)	0 (0.000)
<i>kic</i>	22295 (1.232)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	19454 (1.146)	162078 (2.507)	0 (0.000)
<i>tdedge</i>	18643 (1.044)	64276 (6.321)	0 (0.000)
<i>tgzfool</i>	18641 (1.000)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	16302 (1.143)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	16230 (1.004)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	16005 (1.014)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	15525 (1.031)	13125 (30.957)	0 (0.000)
<i>b4ekz</i>	1869 (8.307)	306407 (1.326)	0 (0.000)
<i>b4ekzic</i>	1869 (1.000)	28203 (14.407)	0 (0.000)
<i>b4tim</i>	288 (6.490)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	288 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	288 (1.000)	29071 (13.976)	0 (0.000)
<i>chi567</i>	127 (2.268)	306529 (1.326)	0 (0.000)
<i>npitg</i>	127 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	103 (1.233)	178767 (2.273)	0 (0.000)
<i>chi5max</i>	98 (1.051)	186547 (2.178)	0 (0.000)
<i>angli</i>	98 (1.000)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	45 (2.178)	170930 (2.377)	0 (0.000)
<i>tpics</i>	36 (1.250)	67405 (6.028)	0 (0.000)
<i>epionk</i>	36 (1.000)	12851 (31.617)	0 (0.000)
<i>ccdpu</i>	30 (1.200)	122742 (3.310)	0 (0.000)
<i>timkf</i>	14 (2.143)	311919 (1.303)	0 (0.000)
<i>DELIC(0.)</i>	10 (1.400)	139241 (2.918)	0 (0.000)
<i>cktrs</i>	0 (10.000)	53841 (7.546)	0 (0.000)
<i>cktail</i>	0 (0.000)	40156 (10.118)	0 (0.000)
<i>pv(nottg)</i>	0 (0.000)	127488 (3.187)	0 (0.000)
<i>pi_flg</i>	0 (0.000)	8225 (49.399)	0 (0.000)
<i>ev502</i>	0 (0.000)	83294 (4.878)	0 (0.000)
<i>elveto</i>	0 (0.000)	57156 (7.109)	0 (0.000)

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Cuts	pnn1	pnn1single	pnn1allbut
<i>tdfool</i>	0 (0.000)	29074 (13.975)	0 (0.000)
<i>tdvarnn02</i>	0 (0.000)	102111 (3.979)	0 (0.000)
TD	0 (0.000)	177214 (2.293)	0 (0.000)
<i>b4dedx</i>	0 (0.000)	236137 (1.721)	0 (0.000)
<i>cpitrs</i>	0 (0.000)	342374 (1.187)	0 (0.000)
<i>cpitail</i>	0 (0.000)	63628 (6.386)	0 (0.000)
Total Rej.	0.000		

Table 14: 2-Beam Rejection Branch no. 1

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	8 (1.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	8 (1.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	8 (1.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	8 (1.000)
<i>rngmom</i>	371743 (1.093)	34566 (11.755)	8 (1.000)
<i>pv(nottg)</i>	254795 (1.459)	127488 (3.187)	46 (5.750)
<i>pi_flg</i>	252939 (1.007)	8225 (49.399)	8 (1.000)
<i>ev502</i>	207727 (1.218)	83294 (4.878)	8 (1.000)
<i>elveto</i>	189113 (1.098)	57156 (7.109)	8 (1.000)
<i>tdfool</i>	188763 (1.002)	29074 (13.975)	8 (1.000)
<i>tdvarnn02</i>	154112 (1.225)	102111 (3.979)	8 (1.000)
TD	154112 (1.000)	177214 (2.293)	8 (1.000)
<i>b4dedx</i>	83924 (1.836)	170172 (2.388)	10 (1.250)
<i>tgqualt</i>	81729 (1.027)	11643 (34.897)	8 (1.000)
<i>timcon</i>	80779 (1.012)	4164 (97.577)	8 (1.000)
<i>DELIC(0.)</i>	48478 (1.666)	267068 (1.521)	25 (3.125)
<i>tger</i>	48135 (1.007)	4055 (100.200)	8 (1.000)
<i>tgzfool</i>	47938 (1.004)	2627 (154.667)	8 (1.000)
<i>upvtrs</i>	42174 (1.137)	46028 (8.827)	10 (1.250)
<i>rvtrs</i>	41793 (1.009)	5560 (73.077)	8 (1.000)
<i>b4etcon</i>	41017 (1.019)	13125 (30.957)	8 (1.000)
<i>b4trs · b4acd</i>	39225 (1.046)	252278 (1.611)	32 (4.000)
<i>cpitrs</i>	1632 (24.035)	342374 (1.187)	149 (18.625)
<i>cpitail</i>	1615 (1.011)	63628 (6.386)	8 (1.000)
$1.1 < b4ars_atc < 5.$	1079 (1.497)	234304 (1.734)	17 (2.125)
<i>bwtrs</i>	24 (44.958)	160036 (2.539)	73 (9.125)
<i>cktrs</i>	8 (3.000)	53841 (7.546)	16 (2.000)
<i>cktail</i>	8 (1.000)	40156 (10.118)	8 (1.000)
Total Rej.	134.875		

Table 15: 2-Beam Rejection Branch no. 2

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	7 (1.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	7 (1.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	7 (1.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	7 (1.000)
<i>rngmom</i>	371743 (1.093)	34566 (11.755)	7 (1.000)
<i>pv(nottg)</i>	254795 (1.459)	127488 (3.187)	24 (3.429)
<i>pi_flg</i>	252939 (1.007)	8225 (49.399)	7 (1.000)
<i>ev502</i>	207727 (1.218)	83294 (4.878)	7 (1.000)
<i>elveto</i>	189113 (1.098)	57156 (7.109)	7 (1.000)
<i>tdfool</i>	188763 (1.002)	29074 (13.975)	7 (1.000)
<i>tdvarnn02</i>	154112 (1.225)	102111 (3.979)	7 (1.000)
TD	154112 (1.000)	177214 (2.293)	7 (1.000)
<i>b4dedx</i>	83924 (1.836)	170172 (2.388)	7 (1.000)
<i>tgqualt</i>	81729 (1.027)	11643 (34.897)	7 (1.000)
<i>timcon</i>	80779 (1.012)	4164 (97.577)	7 (1.000)
<i>DEL(0.)</i>	48478 (1.666)	267068 (1.521)	20 (2.857)
<i>tger</i>	48135 (1.007)	4055 (100.200)	7 (1.000)
<i>tgzfool</i>	47938 (1.004)	2627 (154.667)	7 (1.000)
<i>upvtrs</i>	42174 (1.137)	46028 (8.827)	8 (1.143)
<i>rvtrs</i>	41793 (1.009)	5560 (73.077)	7 (1.000)
<i>b4etcon</i>	41017 (1.019)	13125 (30.957)	7 (1.000)
<i>b4trs · b4acd</i>	39225 (1.046)	252278 (1.611)	35 (5.000)
<i>cktrs</i>	37271 (1.052)	53841 (7.546)	9 (1.286)
<i>cktail</i>	37069 (1.005)	40156 (10.118)	7 (1.000)
<i>b4ars_atc < 1.1</i>	23160 (1.601)	174870 (2.323)	13 (1.857)
<i>tgz > -7.0</i>	20618 (1.123)	55256 (7.353)	8 (1.143)
<i>bwtrs</i>	261 (78.996)	160036 (2.539)	71 (10.143)
<i>cpitr</i>	8 (32.625)	342374 (1.187)	193 (27.571)
<i>cpitail</i>	7 (1.143)	63628 (6.386)	8 (1.143)
Total Rej.	2945.430		

Table 16: 2-Beam Normalization Branch no. 1

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>pv(nottg)</i>	278821 (1.457)	127488 (3.187)	0 (0.000)
<i>tgqualt</i>	271108 (1.028)	11643 (34.897)	0 (0.000)
<i>timcon</i>	268778 (1.009)	4164 (97.577)	0 (0.000)
<i>epitg</i>	250609 (1.073)	26281 (15.460)	0 (0.000)
<i>tger</i>	249272 (1.005)	4055 (100.200)	0 (0.000)
<i>ticcon</i>	249267 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	249246 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	242220 (1.029)	10995 (36.954)	0 (0.000)
<i>drp</i>	240296 (1.008)	2768 (146.788)	0 (0.000)
<i>iccon</i>	233488 (1.029)	14154 (28.706)	0 (0.000)
<i>kic</i>	200943 (1.162)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	173313 (1.159)	162078 (2.507)	0 (0.000)
<i>tgzfool</i>	172682 (1.004)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	153167 (1.127)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	152028 (1.007)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	144603 (1.051)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	140147 (1.032)	13125 (30.957)	0 (0.000)
<i>b4tim</i>	48675 (2.879)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	48675 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	47853 (1.017)	29071 (13.976)	0 (0.000)
<i>chi567</i>	11866 (4.033)	306529 (1.326)	0 (0.000)
<i>npitg</i>	11866 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	7412 (1.601)	178767 (2.273)	0 (0.000)
<i>chi5max</i>	6981 (1.062)	186547 (2.178)	0 (0.000)
<i>angli</i>	6973 (1.001)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	4418 (1.578)	170930 (2.377)	0 (0.000)
<i>tpics</i>	3764 (1.174)	67405 (6.028)	0 (0.000)
<i>epionk</i>	3489 (1.079)	12851 (31.617)	0 (0.000)
<i>ccd pul</i>	2724 (1.281)	122742 (3.310)	0 (0.000)
<i>timkf</i>	1851 (1.472)	311919 (1.303)	0 (0.000)
<i>DELC(0.)</i>	933 (1.984)	267068 (1.521)	7 (7.000)
<i>b4dedx</i>	923 (1.011)	170172 (2.388)	0 (0.000)
<i>cpitrs</i>	743 (1.242)	342374 (1.187)	0 (0.000)
<i>cpitail</i>	743 (1.000)	63628 (6.386)	0 (0.000)
<i>cktrs · cktail · bwtrs</i>	56 (13.268)	207672 (1.956)	0 (0.000)
<i>PNN1box</i>	56 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	50 (1.120)	4891 (83.073)	0 (0.000)
<i>continued on next page</i>			

Cuts	pnn1	pnn1single	pnn1allbut
<i>cos3d</i>	45 (1.111)	29004 (14.009)	0 (0.000)
<i>layv4</i>	45 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	31 (1.452)	46754 (8.690)	0 (0.000)
<i>zutout</i>	31 (1.000)	1020 (398.342)	0 (0.000)
FIDUCIAL	31 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	19 (1.632)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	6 (3.167)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	6 (1.000)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	5 (1.200)	56862 (7.146)	0 (0.000)
PRRF	5 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	5 (1.000)	1850 (219.626)	0 (0.000)
<i>etghi</i>	5 (1.000)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	5 (1.000)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	4 (1.250)	37974 (10.700)	0 (0.000)
tgdedx	4 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	4 (1.000)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	3 (1.333)	37666 (10.787)	0 (0.000)
TGLIKE	3 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	3 (1.000)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	2 (1.500)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	2 (1.000)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	2 (1.000)	72912 (5.573)	0 (0.000)
TGB4	2 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	2 (1.000)	39114 (10.388)	0 (0.000)
KIN	2 (1.000)	329567 (1.233)	0 (0.000)
<i>piflg</i>	2 (1.000)	8225 (49.399)	0 (0.000)
<i>ev502</i>	1 (2.000)	83294 (4.878)	0 (0.000)
<i>elveto</i>	1 (1.000)	57156 (7.109)	0 (0.000)
<i>tdfool</i>	1 (1.000)	29074 (13.975)	0 (0.000)
<i>tdvarnn02</i>	1 (1.000)	102111 (3.979)	0 (0.000)
TD	1 (1.000)	177214 (2.293)	0 (0.000)
<i>b4trs</i>	0 (1.000)	152867 (2.658)	1 (1.000)
<i>b4ccd</i>	0 (0.000)	3134 (129.646)	0 (0.000)
Total Rej.	1.000		

Table 17: 2-Beam Normalization Branch no. 2

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>pv(nottg)</i>	278821 (1.457)	127488 (3.187)	0 (0.000)
<i>tgqualt</i>	271108 (1.028)	11643 (34.897)	0 (0.000)
<i>timcon</i>	268778 (1.009)	4164 (97.577)	0 (0.000)
<i>epitg</i>	250609 (1.073)	26281 (15.460)	0 (0.000)
<i>tger</i>	249272 (1.005)	4055 (100.200)	0 (0.000)
<i>ticcon</i>	249267 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	249246 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	242220 (1.029)	10995 (36.954)	0 (0.000)
<i>drp</i>	240296 (1.008)	2768 (146.788)	0 (0.000)
<i>iccon</i>	233488 (1.029)	14154 (28.706)	0 (0.000)
<i>kic</i>	200943 (1.162)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	173313 (1.159)	162078 (2.507)	0 (0.000)
<i>tgzfool</i>	172682 (1.004)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	153167 (1.127)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	152028 (1.007)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	144603 (1.051)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	140147 (1.032)	13125 (30.957)	0 (0.000)
<i>b4tim</i>	48675 (2.879)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	48675 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	47853 (1.017)	29071 (13.976)	0 (0.000)
<i>chi567</i>	11866 (4.033)	306529 (1.326)	0 (0.000)
<i>npitg</i>	11866 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	7412 (1.601)	178767 (2.273)	0 (0.000)
<i>chi5max</i>	6981 (1.062)	186547 (2.178)	0 (0.000)
<i>angli</i>	6973 (1.001)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	4418 (1.578)	170930 (2.377)	0 (0.000)
<i>tpics</i>	3764 (1.174)	67405 (6.028)	0 (0.000)
<i>epionk</i>	3489 (1.079)	12851 (31.617)	0 (0.000)
<i>ccd pul</i>	2724 (1.281)	122742 (3.310)	0 (0.000)
<i>timkf</i>	1851 (1.472)	311919 (1.303)	0 (0.000)
<i>DEL C(0.)</i>	933 (1.984)	267068 (1.521)	1 (1.000)
<i>b4dedx</i>	923 (1.011)	170172 (2.388)	0 (0.000)
<i>cpitrs</i>	743 (1.242)	342374 (1.187)	0 (0.000)
<i>cpitail</i>	743 (1.000)	63628 (6.386)	0 (0.000)
<i>cktrs · cktail · bwtrs</i>	56 (13.268)	207672 (1.956)	0 (0.000)
<i>PNN1box</i>	56 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	50 (1.120)	4891 (83.073)	0 (0.000)
<i>continued on next page</i>			

Cuts	pnn1	pnnlsingle	pnnlallbut
<i>cos3d</i>	45 (1.111)	29004 (14.009)	0 (0.000)
<i>layv4</i>	45 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	31 (1.452)	46754 (8.690)	0 (0.000)
<i>zutout</i>	31 (1.000)	1020 (398.342)	0 (0.000)
FIDUCIAL	31 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	19 (1.632)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	19 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	6 (3.167)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	6 (1.000)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	5 (1.200)	56862 (7.146)	0 (0.000)
PRRF	5 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	5 (1.000)	1850 (219.626)	0 (0.000)
<i>etghi</i>	5 (1.000)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	5 (1.000)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	4 (1.250)	37974 (10.700)	0 (0.000)
tgdedx	4 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	4 (1.000)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	3 (1.333)	37666 (10.787)	0 (0.000)
TGLIKE	3 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	3 (1.000)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	2 (1.500)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	2 (1.000)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	2 (1.000)	72912 (5.573)	0 (0.000)
TGB4	2 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	2 (1.000)	39114 (10.388)	0 (0.000)
KIN	2 (1.000)	329567 (1.233)	0 (0.000)
<i>piflg</i>	2 (1.000)	8225 (49.399)	0 (0.000)
<i>ev502</i>	1 (2.000)	83294 (4.878)	0 (0.000)
<i>elveto</i>	1 (1.000)	57156 (7.109)	0 (0.000)
<i>tdfool</i>	1 (1.000)	29074 (13.975)	0 (0.000)
<i>tdvarnn02</i>	1 (1.000)	102111 (3.979)	0 (0.000)
TD	1 (1.000)	177214 (2.293)	0 (0.000)
<i>targf</i>	1 (1.000)	87124 (4.664)	0 (0.000)
<i>b4ekz</i>	0 (1.000)	306407 (1.326)	1 (1.000)
<i>epimax</i>	0 (0.000)	46850 (8.673)	0 (0.000)
<i>phivtx1</i>	0 (0.000)	89508 (4.539)	0 (0.000)
<i>opsveto</i>	0 (0.000)	113194 (3.589)	0 (0.000)
<i>tdedge</i>	0 (0.000)	64276 (6.321)	0 (0.000)
<i>null</i>	0 (0.000)	0 (406309.000)	0 (0.000)
<i>continued on next page</i>			

Cuts	pnn1	pnn1single	pnn1allbut
<i>rtghi</i>	0 (0.000)	1850 (219.626)	0 (0.000)
<i>etghi</i>	0 (0.000)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	0 (0.000)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	0 (0.000)	37974 (10.700)	0 (0.000)
tgdedx	0 (0.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	0 (0.000)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	0 (0.000)	37666 (10.787)	0 (0.000)
TGLIKE	0 (0.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	0 (0.000)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	0 (0.000)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	0 (0.000)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	0 (0.000)	72912 (5.573)	0 (0.000)
TGB4	0 (0.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	0 (0.000)	39114 (10.388)	0 (0.000)
TGKIN	0 (0.000)	265327 (1.531)	0 (0.000)
<i>tgpv</i>	0 (0.000)	152300 (2.668)	0 (0.000)
Total Rej.	1.000		

Table 18: 2-Beam Normalization Branch no. 3

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>pv(nottg)</i>	278821 (1.457)	127488 (3.187)	0 (0.000)
<i>tgqualt</i>	271108 (1.028)	11643 (34.897)	0 (0.000)
<i>timcon</i>	268778 (1.009)	4164 (97.577)	0 (0.000)
<i>epitg</i>	250609 (1.073)	26281 (15.460)	0 (0.000)
<i>tger</i>	249272 (1.005)	4055 (100.200)	0 (0.000)
<i>ticcon</i>	249267 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	249246 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	242220 (1.029)	10995 (36.954)	0 (0.000)
<i>drp</i>	240296 (1.008)	2768 (146.788)	0 (0.000)
<i>iccon</i>	233488 (1.029)	14154 (28.706)	0 (0.000)
<i>kic</i>	200943 (1.162)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	173313 (1.159)	162078 (2.507)	1 (1.000)
<i>tgzfool</i>	172682 (1.004)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	153167 (1.127)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	152028 (1.007)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	144603 (1.051)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	140147 (1.032)	13125 (30.957)	0 (0.000)
<i>b4tim</i>	48675 (2.879)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	48675 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	47853 (1.017)	29071 (13.976)	0 (0.000)
<i>chi567</i>	11866 (4.033)	306529 (1.326)	1 (1.000)
<i>npitg</i>	11866 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	7412 (1.601)	178767 (2.273)	7 (7.000)
<i>chi5max</i>	6981 (1.062)	186547 (2.178)	0 (0.000)
<i>angli</i>	6973 (1.001)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	4418 (1.578)	170930 (2.377)	1 (1.000)
<i>tpics</i>	3764 (1.174)	67405 (6.028)	0 (0.000)
<i>epionk</i>	3489 (1.079)	12851 (31.617)	0 (0.000)
<i>ccd pul</i>	2724 (1.281)	122742 (3.310)	4 (4.000)
<i>timkf</i>	1851 (1.472)	311919 (1.303)	1 (1.000)
<i>DELC(0.)</i>	933 (1.984)	267068 (1.521)	1 (1.000)
<i>b4dedx</i>	923 (1.011)	170172 (2.388)	0 (0.000)
<i>cktrs</i>	902 (1.023)	53841 (7.546)	0 (0.000)
<i>cktail</i>	880 (1.025)	40156 (10.118)	0 (0.000)
<i>PNN1box</i>	880 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	748 (1.176)	4891 (83.073)	0 (0.000)
<i>cos3d</i>	669 (1.118)	29004 (14.009)	0 (0.000)
<i>continued on next page</i>			

Cuts	pnn1	pnn1single	pnn1allbut
<i>layv4</i>	669 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	474 (1.411)	46754 (8.690)	0 (0.000)
<i>zutout</i>	466 (1.017)	1020 (398.342)	0 (0.000)
FIDUCIAL	466 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	339 (1.375)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	156 (2.173)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	140 (1.114)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	107 (1.308)	56862 (7.146)	0 (0.000)
PRRF	107 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	107 (1.000)	1850 (219.626)	0 (0.000)
<i>etghi</i>	107 (1.000)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	101 (1.059)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	100 (1.010)	37974 (10.700)	0 (0.000)
tgdedx	100 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	100 (1.000)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	100 (1.000)	37666 (10.787)	0 (0.000)
TGLIKE	100 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	96 (1.042)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	82 (1.171)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	77 (1.065)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	76 (1.013)	72912 (5.573)	0 (0.000)
TGB4	76 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	76 (1.000)	39114 (10.388)	0 (0.000)
KIN	76 (1.000)	329567 (1.233)	0 (0.000)
<i>piflg</i>	75 (1.013)	8225 (49.399)	0 (0.000)
<i>ev502</i>	70 (1.071)	83294 (4.878)	0 (0.000)
<i>elveto</i>	67 (1.045)	57156 (7.109)	0 (0.000)
<i>tdfool</i>	67 (1.000)	29074 (13.975)	0 (0.000)
<i>tdvarnn02</i>	58 (1.155)	102111 (3.979)	0 (0.000)
TD	58 (1.000)	177214 (2.293)	0 (0.000)
<i>cpitrs · cpitail · bwtrs</i>	58 (1.000)	47994 (8.466)	0 (0.000)
<i>b4trs</i>	1 (58.000)	152867 (2.658)	57 (57.000)
<i>b4ccd</i>	0 (1.000)	3134 (129.646)	1 (1.000)
Total Rej.	58.000		

Table 19: 2-Beam Normalization Branch no. 4

Cuts	pnn1	pnn1single	pnn1allbut
<i>PNN1box</i>	406309 (0.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxcl</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	406309 (1.000)	0 (406309.000)	0 (0.000)
<i>pv(nottg)</i>	278821 (1.457)	127488 (3.187)	0 (0.000)
<i>tgqualt</i>	271108 (1.028)	11643 (34.897)	0 (0.000)
<i>timcon</i>	268778 (1.009)	4164 (97.577)	0 (0.000)
<i>epitg</i>	250609 (1.073)	26281 (15.460)	0 (0.000)
<i>tger</i>	249272 (1.005)	4055 (100.200)	0 (0.000)
<i>ticcon</i>	249267 (1.000)	37 (10981.300)	0 (0.000)
<i>dtgttp</i>	249246 (1.000)	213 (1907.550)	0 (0.000)
<i>rtdif</i>	242220 (1.029)	10995 (36.954)	0 (0.000)
<i>drp</i>	240296 (1.008)	2768 (146.788)	0 (0.000)
<i>iccon</i>	233488 (1.029)	14154 (28.706)	0 (0.000)
<i>kic</i>	200943 (1.162)	97949 (4.148)	0 (0.000)
<i>tggeo</i>	173313 (1.159)	162078 (2.507)	0 (0.000)
<i>tgzfool</i>	172682 (1.004)	2627 (154.667)	0 (0.000)
<i>upvtrs</i>	153167 (1.127)	46028 (8.827)	0 (0.000)
<i>rvtrs</i>	152028 (1.007)	5560 (73.077)	0 (0.000)
<i>tgtcon</i>	144603 (1.051)	24328 (16.701)	0 (0.000)
<i>b4etcon</i>	140147 (1.032)	13125 (30.957)	0 (0.000)
<i>b4tim</i>	48675 (2.879)	235902 (1.722)	0 (0.000)
<i>tgktim</i>	48675 (1.000)	0 (406309.000)	0 (0.000)
<i>tgenr</i>	47853 (1.017)	29071 (13.976)	0 (0.000)
<i>chi567</i>	11866 (4.033)	306529 (1.326)	0 (0.000)
<i>npitg</i>	11866 (1.000)	11643 (34.897)	0 (0.000)
<i>verrng</i>	7412 (1.601)	178767 (2.273)	0 (0.000)
<i>chi5max</i>	6981 (1.062)	186547 (2.178)	0 (0.000)
<i>angli</i>	6973 (1.001)	10965 (37.055)	0 (0.000)
<i>ALLK fit</i>	4418 (1.578)	170930 (2.377)	0 (0.000)
<i>tpics</i>	3764 (1.174)	67405 (6.028)	0 (0.000)
<i>epionk</i>	3489 (1.079)	12851 (31.617)	0 (0.000)
<i>ccd pul</i>	2724 (1.281)	122742 (3.310)	1 (1.000)
<i>timkf</i>	1851 (1.472)	311919 (1.303)	0 (0.000)
<i>DELC(0.)</i>	933 (1.984)	267068 (1.521)	0 (0.000)
<i>b4dedx</i>	923 (1.011)	170172 (2.388)	0 (0.000)
<i>cktrs</i>	902 (1.023)	53841 (7.546)	0 (0.000)
<i>cktail</i>	880 (1.025)	40156 (10.118)	0 (0.000)
<i>PNN1box</i>	880 (1.000)	0 (406309.000)	0 (0.000)
<i>icodel14</i>	748 (1.176)	4891 (83.073)	0 (0.000)
<i>cos3d</i>	669 (1.118)	29004 (14.009)	0 (0.000)
<i>continued on next page</i>			

Cuts	pnn1	pnn1single	pnn1allbut
<i>layv4</i>	669 (1.000)	2 (203155.000)	0 (0.000)
<i>zfrf</i>	474 (1.411)	46754 (8.690)	0 (0.000)
<i>zutout</i>	466 (1.017)	1020 (398.342)	0 (0.000)
FIDUCIAL	466 (1.000)	54666 (7.433)	0 (0.000)
<i>utcqual</i>	339 (1.375)	49245 (8.251)	0 (0.000)
<i>rsdedxcl</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>rsdedxmax</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>rslike</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>tgktim</i>	339 (1.000)	0 (406309.000)	0 (0.000)
<i>rngmom</i>	156 (2.173)	34566 (11.755)	0 (0.000)
<i>prrf1</i>	140 (1.114)	27982 (14.520)	0 (0.000)
<i>prrfz</i>	107 (1.308)	56862 (7.146)	0 (0.000)
PRRF	107 (1.000)	76908 (5.283)	0 (0.000)
<i>rtghi</i>	107 (1.000)	1850 (219.626)	0 (0.000)
<i>etghi</i>	107 (1.000)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	101 (1.059)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	100 (1.010)	37974 (10.700)	0 (0.000)
tgdedx	100 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	100 (1.000)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	100 (1.000)	37666 (10.787)	0 (0.000)
TGLIKE	100 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	96 (1.042)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	82 (1.171)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	77 (1.065)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	76 (1.013)	72912 (5.573)	0 (0.000)
TGB4	76 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	76 (1.000)	39114 (10.388)	0 (0.000)
KIN	76 (1.000)	329567 (1.233)	0 (0.000)
<i>pi_flg</i>	75 (1.013)	8225 (49.399)	0 (0.000)
<i>ev502</i>	70 (1.071)	83294 (4.878)	0 (0.000)
<i>elveto</i>	67 (1.045)	57156 (7.109)	0 (0.000)
<i>tdfool</i>	67 (1.000)	29074 (13.975)	0 (0.000)
<i>tdvarnn02</i>	58 (1.155)	102111 (3.979)	0 (0.000)
TD	58 (1.000)	177214 (2.293)	0 (0.000)
<i>cpitrs · cpitail · bwtrs</i>	58 (1.000)	47994 (8.466)	0 (0.000)
<i>targf</i>	58 (1.000)	87124 (4.664)	0 (0.000)
<i>b4ekz</i>	36 (1.611)	306407 (1.326)	0 (0.000)
<i>epimax</i>	36 (1.000)	46850 (8.673)	0 (0.000)
<i>phivtx1</i>	17 (2.118)	89508 (4.539)	1 (1.000)
<i>opsveto</i>	1 (17.000)	113194 (3.589)	1 (1.000)
<i>tdedge</i>	1 (1.000)	64276 (6.321)	0 (0.000)
<i>null</i>	1 (1.000)	0 (406309.000)	0 (0.000)

continued on next page

Cuts	pnn1	pnn1single	pnn1allbut
<i>rtghi</i>	1 (1.000)	1850 (219.626)	0 (0.000)
<i>etghi</i>	1 (1.000)	13473 (30.157)	0 (0.000)
<i>tgdedx1</i>	1 (1.000)	45644 (8.902)	0 (0.000)
<i>tgdedx2</i>	1 (1.000)	37974 (10.700)	0 (0.000)
tgdedx	1 (1.000)	91526 (4.439)	0 (0.000)
<i>tglike1</i>	1 (1.000)	47741 (8.511)	0 (0.000)
<i>tglike2</i>	1 (1.000)	37666 (10.787)	0 (0.000)
TGLIKE	1 (1.000)	63690 (6.379)	0 (0.000)
<i>tgdb4</i>	1 (1.000)	30530 (13.309)	0 (0.000)
<i>tgdb4tip</i>	1 (1.000)	125231 (3.244)	0 (0.000)
<i>tgdvxtip</i>	1 (1.000)	83374 (4.873)	0 (0.000)
<i>tgdvxpi</i>	1 (1.000)	72912 (5.573)	0 (0.000)
TGB4	1 (1.000)	205051 (1.982)	0 (0.000)
<i>pigap</i>	1 (1.000)	39114 (10.388)	0 (0.000)
TGKIN	1 (1.000)	265327 (1.531)	0 (0.000)
<i>tgpv</i>	0 (1.000)	152300 (2.668)	1 (1.000)
Total Rej.	58.000		