

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
RD	0.99994 ± 0.000590	0.99994 ± 0.000590	0.9998 ± 0.00002
Recon	0.99943 ± 0.000821	0.99962 ± 0.001167	0.9607 ± 0.0006
Beam	0.09873 ± 0.000051	0.09389 ± 0.000049	0.1433 ± 0.0010
PV	0.48212 ± 0.002516	0.25935 ± 0.001394	0.3896 ± 0.0017
Muon	0.04757 ± 0.002516	0.02434 ± 0.001394	0.0536 ± 0.005
BadStc	0.99845 ± 0.002549	0.99923 ± 0.003700	<i>notmeasured</i> ± 0
Kin	0.82969 ± 0.002788	0.84320 ± 0.004755	0.8517 ± 0.0021
TD1	0.46436 ± 0.001308	0.37855 ± 0.001544	0.4668 ± 0.0025
Piscat	0.38467 ± 0.001308	0.31895 ± 0.001544	0.4904 ± 0.0037
UTC	0.94348 ± 0.000772	0.94348 ± 0.000772	<i>measured in</i> $\pm km2$
OPS	0.97404 ± 0.003909	0.97357 ± 0.005020	<i>not</i> \pm <i>measured</i>
TGkin	0.65879 ± 0.002693	0.65965 ± 0.003466	0.8115 ± 0.0020
Kpi2	0.60542 ± 0.002693	0.60593 ± 0.003466	0.8115 ± 0.0020
UMC	0.0974 ± 0.0021	0.0798 ± 0.0017	0.0808 ± 0.001
Total $\times 10^{-3}$	1.079 ± 0.062	0.375 ± 0.023	1.456 ± 0.017

Table 1: Total Acceptance Summary

<i>Background</i>	E787-PNN2	Loose cuts	Tight cuts
MuBand All		0.0954309 ± 0.0686767	0.0378549 ± 0.0223852
MuBand ERbox		0.089172 ± 0.0713801	0.0280374 ± 0.0313175
MuTail All PV		0.0885906 ± 0.0680238	0.0173913 ± 0.0194328
MUON TOTAL	0.016	0.0892 ± 0.0714	0.0280 ± 0.0280
1- <i>BM</i>		0.00084 ± 0.00084	0.00053 ± 0.00053
2- <i>BM KK</i>		0.03081 ± 0.00489	0.01481 ± 0.00300
2- <i>BM Kpi</i>		0.00054 ± 0.00054	0.00023 ± 0.00023
2- <i>BM</i>		0.03135 ± 0.00496	0.001504 ± 0.00302
BEAM TOTAL	0.066	0.03219 ± 0.00505	0.01557 ± 0.00309
Kp2 TT	1.01	0.373 ± 0.118	0.037 ± 0.037
Kp2 RS	0.012	0.005 ± 0.005	0.002 ± 0.002
Ke4	0.052	0.059 ± 0.059	$< 0.051 \pm 0.051$
Kp2g	0.033	0.036 ± 0.036	0.0033 ± 0.0033
CEX	0.025	0.12 ± 0.12	0.0068 ± 0.0068
TOTAL	1.21	0.714 ± 0.196	0.144 ± 0.0873
Acc $\times 10^{-3}$	1.456	1.079 ± 0.062	0.375 ± 0.023
Bkg/Acc	0.831	0.662	0.384
Acc/Bkg	1.20	1.511	2.60

Table 2: Background Summary Table. Scaled to the 3/3.

RD	0.99994 ± 0.000590	0.99994 ± 0.000590	0.9998 ± 0.00002
Recon	0.99943 ± 0.000821	0.99962 ± 0.001167	0.9607 ± 0.0006
Beam	0.09873 ± 0.000051	0.09389 ± 0.000049	0.1433 ± 0.0010
PV	0.48212 ± 0.002516	0.25935 ± 0.001394	0.3896 ± 0.0017
Muon	0.04757 ± 0.002516	0.02434 ± 0.001394	0.0536 ± 0.005

Table 3: Muon Summary Table.

Table 4: Muon RD Branch no. 1

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>BADRUN</i>	5189813 (-)	5189813 (-)	- (-)
<i>ictime - cktbm</i>	3324048 (-)	3324048 (-)	- (-)
<i>icbit</i>	3322245 (-)	3322245 (-)	- (-)
<i>b4dedx</i>	3222580 (-)	3222580 (-)	- (-)
<i>UTC</i>	3217622 (-)	3217622 (-)	- (-)
<i>TARGET</i>	3217622 (-)	3217622 (-)	- (-)
<i>utcqual Loose</i>	2871573 (-)	2871573 (-)	- (-)
<i>RD_{TRK}</i>	2871573 (1)	2871573 (1)	- (1.0000)
<i>TRKTIM</i>	2871396 (0.999938)	2871396 (0.999938)	- (0.9998)
Muon RD Acc.	0.99994 ± 0.000590	0.99994 ± 0.000590	0.9998 ± 0.00002

Table 5: Muon Recon Branch no. 1

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>BADRUN</i>	5189813 (-)	5189813 (-)	- (-)
<i>ictime - cktbm</i>	3324048 (-)	3324048 (-)	- (-)
<i>icbit</i>	3322245 (-)	3322245 (-)	- (-)
<i>b4dedx</i>	3222580 (-)	3222580 (-)	- (-)
<i>cpitrs</i>	3179262 (-)	3179262 (-)	- (-)
<i>cpitail</i>	3176138 (-)	3176138 (-)	- (-)
<i>cktrs</i>	3014946 (-)	3014946 (-)	- (-)
<i>cktail</i>	2937942 (-)	2937942 (-)	- (-)
<i>bwtrs</i>	2747076 (-)	2747076 (-)	- (-)
<i>PVnoBV Loose60</i>	1483490 (-)	733287 (-)	- (-)
<i>RD_TRK</i>	1483490 (-)	733287 (-)	- (-)
<i>TRKTIM</i>	1483375 (-)	733236 (-)	- (-)
<i>abs(ictime - trs)</i>	1483375 (-)	733236 (-)	- (-)
<i>RDUTM</i>	1482537 (0.999435)	732958 (0.999621)	- (DNE)
<i>TARGET</i>	1482537 (1)	732958 (1)	- (0.9969)
Muon Recon Acc.	0.99943 ± 0.000821	0.99962 ± 0.001167	0.9607 ± 0.0006

Table 6: Muon Beam Branch no. 1

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>BADRUN</i>	5189813 (-)	5189813 (-)	- (-)
<i>RD_TRK</i>	5189736 (-)	5189736 (-)	- (-)
<i>TRKTIM</i>	5187898 (-)	5187898 (-)	- (-)
<i>RDUTM</i>	4964444 (-)	4964444 (-)	- (-)
<i>TARGET</i>	4964444 (-)	4964444 (-)	- (-)
<i>icbit</i>	4961592 (-)	4961592 (-)	- (-)
<i>KMU2BOX</i>	4110918 (-)	4110918 (-)	- (-)
<i>cos3d</i>	3970030 (-)	3970030 (-)	- (-)
<i>utcqual Loose</i>	3701622 (-)	3701622 (-)	- (-)
<i>TGCUT</i>	3623499 (0.978895)	3623499 (0.978895)	- (unsure)
<i>tgqualt</i>	3497070 (0.965109)	3497070 (0.965109)	- (1.0000)
<i>npitg</i>	3497070 (1)	3497070 (1)	- (1.0000)
<i>timcon</i>	3491946 (0.998535)	3491946 (0.998535)	- (0.9959)
<i>tgtcon</i>	3454110 (0.989165)	3454110 (0.989165)	- (DNE)
<i>b4etcon</i>	3419878 (0.990089)	3419878 (0.990089)	- (DNE)
<i>DCBIT</i>	3012705 (0.880939)	3012705 (0.880939)	- (0.8941)
<i>DELCO</i>	2976694 (0.988047)	2976694 (0.988047)	- (0.8168)
<i>Delc Loose</i>	2581750 (0.867321)	2122260 (0.712959)	- (0.9207)
<i>PSCUT</i>	2448986 (0.948576)	2009337 (0.946791)	- (0.9830)
<i>b4dedx</i>	2435564 (0.994519)	1998225 (0.99447)	- (0.9944)
<i>bwtrs</i>	2235637 (0.917913)	1832855 (0.917242)	- (0.9934)
<i>cpitrs</i>	2231875 (0.998317)	1829835 (0.998352)	- (0.9996)
<i>cpitail</i>	2230844 (0.999538)	1829001 (0.999544)	- (DNE)
<i>cktrs</i>	2216659 (0.993641)	1820013 (0.995086)	- (0.9997)
<i>cktail</i>	2180934 (0.983883)	1809162 (0.994038)	- (DNE)
<i>b4trs</i>	2124974 (0.974341)	1761223 (0.973502)	- (0.9963)
<i>b4ccd</i>	2095946 (0.98634)	1742254 (0.98923)	- (0.9951)
<i>upvtrs</i>	2061527 (0.983578)	1714684 (0.984176)	- (1.000)
<i>rvtrs</i>	2059558 (0.999045)	1713140 (0.9991)	- (DNE)
<i>tggeo</i>	1976928 (0.95988)	1643000 (0.959058)	- (notmeasured)
<i>b4ekz</i>	1802367 (0.911701)	1495538 (0.910248)	- (0.7680)
<i>tgzfool</i>	1780125 (0.98766)	1477110 (0.987678)	- (0.9969)
<i>targf</i>	1722793 (0.967793)	1429371 (0.967681)	- (0.9785)
<i>dtgttp</i>	1722787 (0.999997)	1429365 (0.999996)	- (0.9999)
<i>rtdif</i>	1706324 (0.990444)	1415636 (0.990395)	- (0.9976)
<i>tgktim</i>	1689493 (0.990136)	1410486 (0.996362)	- (0.9833)
<i>eiccon</i>	1644137 (0.973154)	1372704 (0.973213)	- (0.9970)
<i>ticcon</i>	1644133 (0.999998)	1372701 (0.999998)	- (0.9988)
<i>pigap</i>	1610337 (0.979444)	1344511 (0.979464)	- (0.9942)
<i>tgdb4</i>	1584185 (0.98376)	1322347 (0.983515)	- (composite)
<i>tgdb4tip</i>	1576204 (0.994962)	1315471 (0.9948)	- (NA)
<i>tgdvrtip</i>	1569993 (0.99606)	1310171 (0.995971)	- (composite)
<i>tgdvxpi</i>	1535360 (0.977941)	1283230 (0.979437)	- (composite)
TGB4	1535360 (1)	1283230 (1)	- (0.9609)
<i>phivtx1</i>	1489745 (0.97029)	1240997 (0.967089)	- (0.9635)
<i>ccd pul</i>	445487 (0.299036)	424234 (0.341849)	- (0.4312)

continued on next page

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>timkf</i>	400376 (0.898738)	381031 (0.898162)	- (0.9286)
<i>verrng</i>	373562 (0.933028)	355478 (0.932937)	- (0.9272)
<i>angli</i>	373323 (0.99936)	355245 (0.999345)	- (0.9999)
<i>ALLK fit</i>	366294 (0.981172)	348342 (0.980568)	- (0.9953)
<i>tpics</i>	365775 (0.998583)	347831 (0.998533)	- (0.9987)
<i>kic</i>	365679 (0.999738)	347736 (0.999727)	- (0.9993)
<i>epionk</i>	365476 (0.999445)	347533 (0.999416)	- (0.9852)
Muon Beam Acc.	0.09873 ± 0.000051	0.09389 ± 0.000049	0.1433 ± 0.0010

Table 7: Muon PV Branch no. 1

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>BADRUN</i>	5189813 (-)	5189813 (-)	- (-)
<i>icbit</i>	5185746 (-)	5185746 (-)	- (-)
<i>KMU2BOX</i>	4110927 (-)	4110927 (-)	- (-)
<i>cos3d</i>	3970039 (-)	3970039 (-)	- (-)
<i>utcqual Loose</i>	3701627 (-)	3701627 (-)	- (-)
<i>RD_TRK</i>	3701627 (-)	3701627 (-)	- (-)
<i>TRKTIM</i>	3701622 (-)	3701622 (-)	- (-)
<i>RDUTM</i>	3701622 (-)	3701622 (-)	- (-)
<i>TARGET</i>	3701622 (-)	3701622 (-)	- (-)
<i>TGCUT</i>	3623499 (-)	3623499 (-)	- (-)
<i>tgqualt</i>	3497070 (-)	3497070 (-)	- (-)
<i>npitg</i>	3497070 (-)	3497070 (-)	- (-)
<i>timcon</i>	3491946 (-)	3491946 (-)	- (-)
<i>tgtcon</i>	3454110 (-)	3454110 (-)	- (-)
<i>b4etcon</i>	3419878 (-)	3419878 (-)	- (-)
<i>DCBIT</i>	3012705 (-)	3012705 (-)	- (-)
<i>DELCO</i>	2976694 (-)	2976694 (-)	- (-)
<i>Delc Loose</i>	2581750 (-)	2122260 (-)	- (-)
<i>PSCUT</i>	2448986 (-)	2009337 (-)	- (-)
<i>b4dedx</i>	2435564 (-)	1998225 (-)	- (-)
<i>bwtrs</i>	2235637 (-)	1832855 (-)	- (-)
<i>cpitrs</i>	2231875 (-)	1829835 (-)	- (-)
<i>cpitail</i>	2230844 (-)	1829001 (-)	- (-)
<i>cktrs</i>	2216659 (-)	1820013 (-)	- (-)
<i>cktail</i>	2180934 (-)	1809162 (-)	- (-)
<i>b4trs</i>	2124974 (-)	1761223 (-)	- (-)
<i>b4ccd</i>	2095946 (-)	1742254 (-)	- (-)
<i>upvtrs</i>	2061527 (-)	1714684 (-)	- (-)
<i>rvtrs</i>	2059558 (-)	1713140 (-)	- (-)
<i>tggeo</i>	1976928 (-)	1643000 (-)	- (-)
<i>b4ekz</i>	1802367 (-)	1495538 (-)	- (-)
<i>tgz fool</i>	1780125 (-)	1477110 (-)	- (-)
<i>targf</i>	1722793 (-)	1429371 (-)	- (-)
<i>dtgttp</i>	1722787 (-)	1429365 (-)	- (-)
<i>rtdif</i>	1706324 (-)	1415636 (-)	- (-)
<i>tgktim</i>	1689493 (-)	1410486 (-)	- (-)
<i>iccon</i>	1644137 (-)	1372704 (-)	- (-)
<i>ticcon</i>	1644133 (-)	1372701 (-)	- (-)
<i>pi gap</i>	1610337 (-)	1344511 (-)	- (-)
<i>tgdb4</i>	1584185 (-)	1322347 (-)	- (-)
<i>tgdb4tip</i>	1576204 (-)	1315471 (-)	- (-)
<i>tgdvxtip</i>	1569993 (-)	1310171 (-)	- (-)
<i>tgdvxpi</i>	1535360 (-)	1283230 (-)	- (-)
TGB4	1535360 (-)	1283230 (-)	- (-)
<i>phivtx1</i>	1489745 (-)	1240997 (-)	- (-)
<i>ccd pul</i>	445487 (-)	424234 (-)	- (-)

continued on next page

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>timkf</i>	400376 (-)	381031 (-)	- (-)
<i>verrng</i>	373562 (-)	355478 (-)	- (-)
<i>angli</i>	373323 (-)	355245 (-)	- (-)
<i>ALLK fit</i>	366294 (-)	348342 (-)	- (-)
<i>tpics</i>	365775 (-)	347831 (-)	- (-)
<i>kic</i>	365679 (-)	347736 (-)	- (-)
<i>epionk</i>	365476 (-)	347533 (-)	- (-)
<i>lay < 19</i>	36725 (-)	34625 (-)	- (-)
<i>lhex</i>	34290 (0.933696)	32329 (0.93369)	- (0.9417)
<i>HEXAfter</i>	33035 (0.9634)	31153 (0.963624)	- (DNE)
<i>PVOnline</i>	31645 (0.957923)	29841 (0.957885)	- (0.9752)
<i>Layer20or21</i>	31404 (0.992384)	29614 (0.992393)	- (DNE)
<i>STLAY</i>	31112 (0.990702)	29344 (0.990883)	- (0.9828)
<i>RSHEX</i>	30005 (0.964419)	28290 (0.964081)	- (0.9504)
<i>PVCUT</i>	28836 (0.96104)	27187 (0.961011)	- (0.9779)
<i>TGPVCUT</i>	28617 (0.992405)	26981 (0.992423)	- (0.9968)
<i>TGPVTR</i>	28617 (1)	26981 (1)	- (NA)
<i>tgpv Loose60</i>	27779 (0.970717)	24925 (0.923798)	- (0.8739)
<i>ICPV Loose60</i>	27757 (0.999208)	24908 (0.999318)	- (0.9898)
<i>VCPV Loose60</i>	27739 (0.999352)	24863 (0.998193)	- (0.9958)
<i>COPV Loose60</i>	27570 (0.993907)	24754 (0.995616)	- (0.9828)
<i>MCPV Loose60</i>	27567 (0.999891)	24746 (0.999677)	- (0.9998)
<i>ECPVinner Loose60</i>	23879 (0.866217)	19297 (0.779803)	- (0.8646)
<i>ECPVouter Loose60</i>	22196 (0.92952)	15732 (0.815256)	- (0.9787)
<i>ECPV2nd Loose60</i>	22030 (0.992521)	14577 (0.926583)	- (0.7818)
<i>RDPV Loose60</i>	20395 (0.925783)	10397 (0.713247)	- (0.9149)
<i>BVPV Loose60</i>	18952 (0.929247)	9514 (0.915072)	- (0.9419)
<i>BVLPV Loose60</i>	18664 (0.984804)	9405 (0.988543)	- (DNE)
<i>ADPV Loose60</i>	17726 (0.949743)	8986 (0.955449)	- (0.9696)
<i>earlyBVPV Loose60</i>	17708 (0.998985)	8982 (0.999555)	- (DNE)
<i>DSPV Loose60</i>	17706 (0.999887)	8980 (0.999777)	- (DNE)
<i>PVpnn2 Loose60</i>	17706 (1)	8980 (1)	- (0.4669)
Muon PV Acc.	0.48212 ± 0.002516	0.25935 ± 0.001394	0.3896 ± 0.0017

Table 8: Muon layer14 study Branch no. 1

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>BADRUN</i>	5189813 (-)	5189813 (-)	- (-)
<i>Trigger</i>	5189813 (-)	5189813 (-)	- (-)
<i>LAYER14</i>	5185883 (0.999243)	5185883 (0.999243)	- (notmeasured)
Muon PV Acc.	0.99924 ± 0.000439	0.99924 ± 0.000439	<i>not \pm measured</i>

Table 9: Muon UTCqual Study Branch no. 1

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>BADRUN</i>	5189813 (-)	5189813 (-)	- (-)
<i>ictime - cktbm</i>	3324048 (-)	3324048 (-)	- (-)
<i>icbit</i>	3322245 (-)	3322245 (-)	- (-)
<i>b4dedx</i>	3222580 (-)	3222580 (-)	- (-)
<i>cpitrs</i>	3179262 (-)	3179262 (-)	- (-)
<i>cpitail</i>	3176138 (-)	3176138 (-)	- (-)
<i>cktrs</i>	3014946 (-)	3014946 (-)	- (-)
<i>ctail</i>	2937942 (-)	2937942 (-)	- (-)
<i>bwtrs</i>	2747076 (-)	2747076 (-)	- (-)
<i>PVnoBV Loose60</i>	1483490 (-)	733287 (-)	- (-)
<i>RD_TRK</i>	1483490 (-)	733287 (-)	- (-)
<i>TRKTIM</i>	1483375 (-)	733236 (-)	- (-)
<i>abs(ictime - trs)</i>	1483375 (-)	733236 (-)	- (-)
<i>RDUTM</i>	1482537 (0.999435)	732958 (0.999621)	- (DNE)
<i>UTC</i>	1482537 (1)	732958 (1)	- (1.0000)
<i>utcqual Loose</i>	1366559 (0.921771)	682236 (0.930798)	- (0.9637)
<i>TARGET</i>	1366559 (1)	682236 (1)	- (0.9969)
Muon PV Acc.	0.92125 ± 0.000756	0.93044 ± 0.001087	$NA \pm NA$

Table 10: Muon epitg study Branch no. 1

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>BADRUN</i>	5189813 (-)	5189813 (-)	- (-)
<i>RD_TRK</i>	5189736 (-)	5189736 (-)	- (-)
<i>TRKTIM</i>	5187898 (-)	5187898 (-)	- (-)
<i>RDUTM</i>	4964444 (-)	4964444 (-)	- (-)
<i>TARGET</i>	4964444 (-)	4964444 (-)	- (-)
<i>icbit</i>	4961592 (-)	4961592 (-)	- (-)
<i>KMU2BOX</i>	4110918 (-)	4110918 (-)	- (-)
<i>cos3d</i>	3970030 (-)	3970030 (-)	- (-)
<i>utcqual Loose</i>	3701622 (-)	3701622 (-)	- (-)
<i>TGCUT</i>	3623499 (0.978895)	3623499 (0.978895)	- (unsure)
<i>tgqualt</i>	3497070 (0.965109)	3497070 (0.965109)	- (1.0000)
<i>npitg</i>	3497070 (1)	3497070 (1)	- (1.0000)
<i>timcon</i>	3491946 (0.998535)	3491946 (0.998535)	- (0.9959)
<i>tgtcon</i>	3454110 (0.989165)	3454110 (0.989165)	- (DNE)
<i>b4etcon</i>	3419878 (0.990089)	3419878 (0.990089)	- (DNE)
<i>DCBIT</i>	3012705 (0.880939)	3012705 (0.880939)	- (0.8941)
<i>DELCO</i>	2976694 (0.988047)	2976694 (0.988047)	- (0.8168)
<i>Delc Loose</i>	2581750 (0.867321)	2122260 (0.712959)	- (0.9207)
<i>PSCUT</i>	2448986 (0.948576)	2009337 (0.946791)	- (0.9830)
<i>b4dedx</i>	2435564 (0.994519)	1998225 (0.99447)	- (0.9944)
<i>bwtrs</i>	2235637 (0.917913)	1832855 (0.917242)	- (0.9934)
<i>cpitrs</i>	2231875 (0.998317)	1829835 (0.998352)	- (0.9996)
<i>cpitail</i>	2230844 (0.999538)	1829001 (0.999544)	- (DNE)
<i>cktrs</i>	2216659 (0.993641)	1820013 (0.995086)	- (0.9997)
<i>cktail</i>	2180934 (0.983883)	1809162 (0.994038)	- (DNE)
<i>b4trs</i>	2124974 (0.974341)	1761223 (0.973502)	- (0.9963)
<i>b4ccd</i>	2095946 (0.98634)	1742254 (0.98923)	- (0.9951)
<i>upvtrs</i>	2061527 (0.983578)	1714684 (0.984176)	- (1.000)
<i>rvtrs</i>	2059558 (0.999045)	1713140 (0.9991)	- (DNE)
<i>tggeo</i>	1976928 (0.95988)	1643000 (0.959058)	- (notmeasured)
<i>b4ekz</i>	1802367 (0.911701)	1495538 (0.910248)	- (0.7680)
<i>tgzfool</i>	1780125 (0.98766)	1477110 (0.987678)	- (0.9969)
<i>epitg</i>	1630641 (0.916026)	1353273 (0.916163)	- (0.9638)
<i>epimaxk</i>	1630641 (1)	1353273 (1)	- (1.0000)
TGDEDX	1626327 (0.997354)	1349713 (0.997369)	- (0.9858)
<i>tger</i>	1624068 (0.998611)	1347756 (0.99855)	- (1.0000)
<i>tgenr</i>	1594604 (0.981858)	1322344 (0.981145)	- (0.9719)
<i>tglike1</i>	1570648 (0.984977)	1301585 (0.984301)	- (composite)
<i>tglike2</i>	1555419 (0.990304)	1289050 (0.990369)	- (composite)
TGLIKE	1555419 (1)	1289050 (1)	- (1.0000)
<i>tgedge</i>	1547702 (0.995039)	1283992 (0.996076)	- (0.9992)
<i>drp</i>	1544908 (0.998195)	1281562 (0.998107)	- (0.9998)
<i>chi567 Loose</i>	1228866 (0.79543)	1018135 (0.794448)	- (0.8400)
<i>chi5max</i>	1117217 (0.909145)	925220 (0.90874)	- (0.9799)
<i>targf</i>	1091918 (0.977355)	904416 (0.977515)	- (0.9785)
<i>dtgttp</i>	1091918 (1)	904416 (1)	- (0.9999)

continued on next page

Cuts	km2loose acc	km2tight acc	bipulkm2acc acc
<i>rtdif</i>	1082078 (0.990988)	896233 (0.990952)	- (0.9976)
<i>tgktim</i>	1071641 (0.990355)	893207 (0.996624)	- (0.9833)
<i>iccon</i>	1042781 (0.973069)	869203 (0.973126)	- (0.9970)
<i>ticcon</i>	1042778 (0.999997)	869201 (0.999998)	- (0.9988)
<i>pigap</i>	1023331 (0.981351)	853035 (0.981401)	- (0.9942)
<i>tgdb4</i>	1007055 (0.984095)	839280 (0.983875)	- (composite)
<i>tgdb4tip</i>	1002302 (0.99528)	835162 (0.995093)	- (NA)
<i>tgdvxtip</i>	998855 (0.996561)	832216 (0.996473)	- (composite)
<i>tgdvxpi</i>	979494 (0.980617)	817200 (0.981957)	- (composite)
TGB4	979494 (1)	817200 (1)	- (0.9609)
<i>phivtx1</i>	956810 (0.976841)	796091 (0.974169)	- (0.9635)
<i>ccd pul</i>	297432 (0.310858)	283387 (0.355973)	- (0.4312)
<i>timkf</i>	267757 (0.900229)	254943 (0.899628)	- (0.9286)
<i>verrng</i>	252193 (0.941873)	240080 (0.941701)	- (0.9272)
<i>angli</i>	252072 (0.99952)	239963 (0.999513)	- (0.9999)
<i>ALLK fit</i>	247360 (0.981307)	235328 (0.980685)	- (0.9953)
<i>tpics</i>	247263 (0.999608)	235232 (0.999592)	- (0.9987)
<i>kic</i>	247205 (0.999765)	235174 (0.999753)	- (0.9993)
<i>epionk</i>	247073 (0.999466)	235042 (0.999439)	- (0.9852)
Muon PV Acc.	0.06675 ± 0.000035	0.06350 ± 0.000033	±

BadStc	0.99845 ± 0.002549	0.99923 ± 0.003700	<i>notmeasured</i> ± 0
Kin	0.82969 ± 0.002788	0.84320 ± 0.004755	0.8517 ± 0.0021
TD1	0.46436 ± 0.001308	0.37855 ± 0.001544	0.4668 ± 0.0025
Piscat	0.38467 ± 0.001308	0.31895 ± 0.001544	0.4904 ± 0.0037

Table 11: Piscat Summary Table.

Table 12: Piscat BadStc Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>BADRUN</i>	5840653 (-)	5840653 (-)	- (-)
<i>DUPEV</i>	5840653 (-)	5840653 (-)	- (-)
<i>RD_TRK</i>	5840173 (-)	5840173 (-)	- (-)
<i>TRKTIM</i>	5837488 (-)	5837488 (-)	- (-)
<i>TARGET</i>	5837488 (-)	5837488 (-)	- (-)
<i>STLAY</i>	4934038 (-)	4934038 (-)	- (-)
<i>UTC</i>	4578550 (-)	4578550 (-)	- (-)
<i>RDUTM</i>	4482624 (-)	4482624 (-)	- (-)
<i>PDC</i>	2824690 (-)	2824690 (-)	- (-)
<i>ICbit</i>	2824690 (-)	2824690 (-)	- (-)
<i>b4abm2</i>	1980575 (-)	1980575 (-)	- (-)
<i>t_{pi} - t_{rs}</i>	1875533 (-)	1875533 (-)	- (-)
<i>ictime - t_{rs}</i>	1842034 (-)	1842034 (-)	- (-)
<i>BOX Loose</i>	376962 (-)	293449 (-)	- (-)
<i>targf</i>	358720 (-)	279019 (-)	- (-)
<i>dtgttp</i>	345529 (-)	267512 (-)	- (-)
<i>rtdif</i>	328080 (-)	253532 (-)	- (-)
<i>tgqualt</i>	291277 (-)	222997 (-)	- (-)
<i>tgz fool</i>	237515 (-)	181215 (-)	- (-)
<i>cktrs</i>	224263 (-)	171141 (-)	- (-)
<i>cktail</i>	221955 (-)	169428 (-)	- (-)
<i>cos3d</i>	205877 (-)	158176 (-)	- (-)
<i>layv4</i>	205857 (-)	158156 (-)	- (-)
<i>RDPV Loose60</i>	153484 (-)	72944 (-)	- (-)
<i>BAD₅TC</i>	153246 (0.998449)	72888 (0.999232)	- (notmeasured)
Piscat BadStc Acc.	0.99845 ± 0.002549	0.99923 ± 0.003700	<i>notmeasured</i> ± 0

Table 13: Piscat Kin Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>SetupBadStC</i>	153484 (-)	72944 (-)	- (-)
<i>BAD_sTC</i>	153246 (-)	72888 (-)	- (-)
<i>pi_flg</i>	121324 (-)	57741 (-)	- (-)
<i>ev502_off</i>	121324 (-)	46834 (-)	- (-)
<i>elveto</i>	107004 (-)	42367 (-)	- (-)
<i>tdfool</i>	102539 (-)	40948 (-)	- (-)
<i>tdvarnn02 Loose</i>	88585 (-)	31442 (-)	- (-)
TD Loose	88585 (-)	31442 (-)	- (-)
<i>utcqual Loose</i>	84241 (0.950962)	29952 (0.952611)	- (0.9637)
<i>rngmom</i>	82723 (0.98198)	29425 (0.982405)	- (0.9225)
<i>rsdedxmax</i>	80328 (0.971048)	28687 (0.974919)	- (0.9938)
<i>rsdedxcl</i>	76709 (0.954947)	27518 (0.95925)	- (0.9755)
<i>rslike</i>	76709 (1)	27518 (1)	- (DNE)
RSDEDX	76709 (1)	27518 (1)	- (0.0)
<i>prrf1</i>	76082 (0.991826)	27366 (0.994476)	- (0.9959)
<i>prrfz</i>	73498 (0.966037)	26512 (0.968793)	- (0.9559)
PRRF	73498 (1)	26512 (1)	- (0.0)
<i>icodel14</i>	73498 (1)	26512 (1)	- (notmeasured)
Piscat Kin Acc.	0.82969 ± 0.002788	0.84320 ± 0.004755	0.8517 ± 0.0021

Table 14: Piscat TD1 Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>BADRUN</i>	5840653 (-)	5840653 (-)	- (-)
<i>DUPEV</i>	5840653 (-)	5840653 (-)	- (-)
<i>RD_TRK</i>	5840173 (-)	5840173 (-)	- (-)
<i>TRKTIM</i>	5837488 (-)	5837488 (-)	- (-)
<i>TARGET</i>	5837488 (-)	5837488 (-)	- (-)
<i>STLAY</i>	4934038 (-)	4934038 (-)	- (-)
<i>UTC</i>	4578550 (-)	4578550 (-)	- (-)
<i>RDUTM</i>	4482624 (-)	4482624 (-)	- (-)
<i>PDC</i>	2824690 (-)	2824690 (-)	- (-)
<i>ICbit</i>	2824690 (-)	2824690 (-)	- (-)
<i>b4abm2</i>	1980575 (-)	1980575 (-)	- (-)
<i>tpi - trs</i>	1875533 (-)	1875533 (-)	- (-)
<i>ictime - trs</i>	1842034 (-)	1842034 (-)	- (-)
<i>BOX Loose</i>	376962 (-)	293449 (-)	- (-)
<i>targf</i>	358720 (-)	279019 (-)	- (-)
<i>dtgttp</i>	345529 (-)	267512 (-)	- (-)
<i>rtdif</i>	328080 (-)	253532 (-)	- (-)
<i>tgqualt</i>	291277 (-)	222997 (-)	- (-)
<i>tgz fool</i>	237515 (-)	181215 (-)	- (-)
<i>cktrs</i>	224263 (-)	171141 (-)	- (-)
<i>cktail</i>	221955 (-)	169428 (-)	- (-)
<i>cos3d</i>	205877 (-)	158176 (-)	- (-)
<i>layv4</i>	205857 (-)	158156 (-)	- (-)
<i>RDPV Loose60</i>	153484 (-)	72944 (-)	- (-)
<i>BAD_STC</i>	153246 (-)	72888 (-)	- (-)
<i>rngmom</i>	142681 (-)	67757 (-)	- (-)
<i>zfrf</i>	142613 (-)	67749 (-)	- (-)
<i>zutout</i>	142460 (-)	67675 (-)	- (-)
<i>LAYER14</i>	142459 (-)	67675 (-)	- (-)
<i>utcqual Loose</i>	135706 (-)	64513 (-)	- (-)
<i>iccon</i>	126052 (-)	60093 (-)	- (-)
<i>pi flg</i>	103907 (0.824319)	49726 (0.827484)	- (0.6973)
<i>RSHEX2</i>	101983 (0.981483)	48883 (0.983047)	- (1.000)
<i>Lev1.1</i>	82538 (0.809331)	39855 (0.815314)	- (composite)
<i>Lev1.2</i>	69283 (0.839407)	35769 (0.897478)	- (0.7645)
<i>TDCUT</i>	65104 (0.939682)	33680 (0.941597)	- (notmeasured)
<i>elveto</i>	62350 (0.957698)	32405 (0.962144)	- (0.9749)
<i>tdfool</i>	62135 (0.996552)	32300 (0.99676)	- (0.9975)
<i>tdvarnn02 Loose</i>	58533 (0.942029)	27348 (0.846687)	- (0.9316)
<i>ev502 off</i>	58533 (1)	22748 (0.831798)	- (0.9874)
TD Loose	58533 (1)	22748 (1)	- (composite)
Piscat TD1 Acc.	0.46436 ± 0.001308	0.37855 ± 0.001544	0.4668 ± 0.0025

Table 15: Piscat TD2 Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>SetupTD1</i>	126052 (-)	60093 (-)	- (-)
RSDEX	112223 (-)	54021 (-)	- (-)
PRRF	106976 (-)	51691 (-)	- (-)
<i>pi_flg</i>	90042 (0.841703)	43644 (0.844325)	- (0.6973)
<i>RSHEX2</i>	88503 (0.982908)	42947 (0.98403)	- (1.000)
<i>Lev1.1</i>	72460 (0.818729)	35391 (0.824062)	- (composite)
<i>Lev1.2</i>	61850 (0.853574)	32269 (0.911785)	- (0.7645)
<i>TDCUT</i>	58230 (0.941471)	30432 (0.943072)	- (notmeasured)
<i>elveto</i>	55779 (0.957908)	29287 (0.962375)	- (0.9749)
<i>tdfool</i>	55602 (0.996827)	29204 (0.997166)	- (0.9975)
<i>tdvarnn02 Loose</i>	52416 (0.9427)	24765 (0.848)	- (0.9316)
<i>ev502 off</i>	52416 (1)	20635 (0.833232)	- (0.9874)
TD Loose	52416 (1)	20635 (1)	- (composite)
Piscat TD1 Acc.	0.48998 ± 0.001498	0.39920 ± 0.001756	0.4765 ± 0.0026

Table 16: Piscat TDnn study Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>SetupTD1</i>	126052 (-)	60093 (-)	- (-)
<i>pi_flg</i>	103907 (0.824319)	49726 (0.827484)	- (0.6973)
<i>RSHEX2</i>	101983 (0.981483)	48883 (0.983047)	- (1.000)
<i>Lev1.1</i>	82538 (0.809331)	39855 (0.815314)	- (composite)
<i>Lev1.2</i>	69283 (0.839407)	35769 (0.897478)	- (0.7645)
<i>TDCUT</i>	65104 (0.939682)	33680 (0.941597)	- (notmeasured)
<i>ev502 off</i>	65104 (1)	27907 (0.828593)	- (0.9874)
<i>elveto</i>	62350 (0.957698)	26873 (0.962948)	- (0.9749)
<i>tdfool</i>	62135 (0.996552)	26795 (0.997097)	- (0.9975)
<i>tdvarnn02.05</i>	60519 (0.973992)	26164 (0.976451)	- (0.9316)
<i>tdvarnn02.10</i>	60106 (0.993176)	25979 (0.992929)	- (0.9316)
<i>tdvarnn02.15</i>	59696 (0.993179)	25807 (0.993379)	- (0.9316)
<i>tdvarnn02.20</i>	59301 (0.993383)	25641 (0.993568)	- (0.9316)
<i>tdvarnn02.25</i>	58922 (0.993609)	25485 (0.993916)	- (0.9316)
<i>tdvarnn02.30</i>	58533 (0.993398)	25312 (0.993212)	- (0.9316)
<i>tdvarnn02.35</i>	58151 (0.993474)	25156 (0.993837)	- (0.9316)
<i>tdvarnn02.40</i>	57739 (0.992915)	24980 (0.993004)	- (0.9316)
<i>tdvarnn02.45</i>	57276 (0.991981)	24780 (0.991994)	- (0.9316)
<i>tdvarnn02.50</i>	56801 (0.991707)	24571 (0.991566)	- (0.9316)
<i>tdvarnn02.55</i>	56223 (0.989824)	24322 (0.989866)	- (0.9316)
<i>tdvarnn02.60</i>	55554 (0.988101)	24029 (0.987953)	- (0.9316)
<i>tdvarnn02.65</i>	54828 (0.986932)	23700 (0.986308)	- (0.9316)
<i>tdvarnn02.70</i>	53933 (0.983676)	23317 (0.98384)	- (0.9316)
<i>tdvarnn02.75</i>	52858 (0.980068)	22854 (0.980143)	- (0.9316)
<i>tdvarnn02.76</i>	52614 (0.995384)	22748 (0.995362)	- (0.9316)
<i>tdvarnn02.80</i>	51357 (0.976109)	22202 (0.975998)	- (0.9316)
Piscat TD1 Acc.	0.40743 ± 0.001148	0.36946 ± 0.001507	0.0 ± 0.0

Table 17: Piscat TDnn Acc study ev5 removed Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>SetupTD1</i>	126052 (-)	60093 (-)	- (-)
<i>pi_flg</i>	103907 (0.824319)	49726 (0.827484)	- (0.6973)
<i>RSHEX2</i>	101983 (0.981483)	48883 (0.983047)	- (1.000)
<i>Lev1.1</i>	82538 (0.809331)	39855 (0.815314)	- (composite)
<i>Lev1.2</i>	69283 (0.839407)	35769 (0.897478)	- (0.7645)
<i>TDCUT</i>	65104 (0.939682)	33680 (0.941597)	- (notmeasured)
<i>elveto</i>	62350 (0.957698)	32405 (0.962144)	- (0.9749)
<i>tdfool</i>	62135 (0.996552)	32300 (0.99676)	- (0.9975)
<i>tdvarnn02.05</i>	60519 (0.973992)	31514 (0.975666)	- (0.9316)
<i>tdvarnn02.10</i>	60106 (0.993176)	31292 (0.992956)	- (0.9316)
<i>tdvarnn02.15</i>	59696 (0.993179)	31079 (0.993193)	- (0.9316)
<i>tdvarnn02.20</i>	59301 (0.993383)	30877 (0.9935)	- (0.9316)
<i>tdvarnn02.25</i>	58922 (0.993609)	30685 (0.993782)	- (0.9316)
<i>tdvarnn02.30</i>	58533 (0.993398)	30476 (0.993189)	- (0.9316)
<i>tdvarnn02.35</i>	58151 (0.993474)	30278 (0.993503)	- (0.9316)
<i>tdvarnn02.40</i>	57739 (0.992915)	30057 (0.992701)	- (0.9316)
<i>tdvarnn02.45</i>	57276 (0.991981)	29822 (0.992182)	- (0.9316)
<i>tdvarnn02.50</i>	56801 (0.991707)	29565 (0.991382)	- (0.9316)
<i>tdvarnn02.55</i>	56223 (0.989824)	29268 (0.989954)	- (0.9316)
<i>tdvarnn02.60</i>	55554 (0.988101)	28915 (0.987939)	- (0.9316)
<i>tdvarnn02.65</i>	54828 (0.986932)	28526 (0.986547)	- (0.9316)
<i>tdvarnn02.70</i>	53933 (0.983676)	28046 (0.983173)	- (0.9316)
<i>tdvarnn02.75</i>	52858 (0.980068)	27474 (0.979605)	- (0.9316)
<i>tdvarnn02.80</i>	51357 (0.971603)	26675 (0.970918)	- (0.9316)
Piscat TD1 Acc.	0.40743 ± 0.001148	0.44389 ± 0.001811	0.0 ± 0.0

Table 18: Piscat Kin Acc tgdedx study Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>SetupBadStC</i>	153484 (-)	72944 (-)	- (-)
<i>BAD_sTC</i>	153246 (-)	72888 (-)	- (-)
<i>pi_flg</i>	121324 (-)	57741 (-)	- (-)
<i>ev502 off</i>	121324 (-)	46834 (-)	- (-)
<i>elveto</i>	107004 (-)	42367 (-)	- (-)
<i>tdfool</i>	102539 (-)	40948 (-)	- (-)
<i>tdvarnn02 Loose</i>	88585 (-)	31442 (-)	- (-)
TD Loose	88585 (-)	31442 (-)	- (-)
<i>utcqual Loose</i>	84241 (0.950962)	29952 (0.952611)	- (0.9637)
<i>rngmom</i>	82723 (0.98198)	29425 (0.982405)	- (0.9225)
<i>rsdedxmax</i>	80328 (0.971048)	28687 (0.974919)	- (0.9938)
<i>rsdedxcl</i>	76709 (0.954947)	27518 (0.95925)	- (0.9755)
<i>rslike</i>	76709 (1)	27518 (1)	- (DNE)
RSDEDX	76709 (1)	27518 (1)	- (0.0)
<i>prrf1</i>	76082 (0.991826)	27366 (0.994476)	- (0.9959)
<i>prrfz</i>	73498 (0.966037)	26512 (0.968793)	- (0.9559)
PRRF	73498 (1)	26512 (1)	- (0.0)
<i>icodel14</i>	73498 (1)	26512 (1)	- (notmeasured)
TGDEDX	65814 (0.895453)	23708 (0.894237)	- (0.9858)
Piscat TD1 Acc.	0.74295 ± 0.002496	0.75402 ± 0.004252	\pm

Table 19: Kin tgdedx calib Branch no. 1

Cuts	piloose acc	pitight acc	bipulpiacc acc
<i>BADRUN</i>	5840653 (-)	5840653 (-)	- (-)
<i>DUPEV</i>	5840653 (-)	5840653 (-)	- (-)
<i>RD_{TRK}</i>	5840173 (-)	5840173 (-)	- (-)
<i>TRKTIM</i>	5837488 (-)	5837488 (-)	- (-)
<i>TARGET</i>	5837488 (-)	5837488 (-)	- (-)
<i>STLAY</i>	4934038 (-)	4934038 (-)	- (-)
<i>UTC</i>	4578550 (-)	4578550 (-)	- (-)
<i>RDUTM</i>	4482624 (-)	4482624 (-)	- (-)
<i>PDC</i>	2824690 (-)	2824690 (-)	- (-)
<i>ICbit</i>	2824690 (-)	2824690 (-)	- (-)
<i>b4abm2</i>	1980575 (-)	1980575 (-)	- (-)
<i>t_{pi} - trs</i>	1875533 (-)	1875533 (-)	- (-)
<i>ictime - trs</i>	1842034 (-)	1842034 (-)	- (-)
<i>BAD_{sTC}</i>	1839198 (-)	1839198 (-)	- (-)
<i>TGCUT</i>	1503334 (0.817386)	1503334 (0.817386)	- (unsure)
<i>tgqualt</i>	1431017 (0.951896)	1431017 (0.951896)	- (1.0000)
<i>npitg</i>	1431017 (1)	1431017 (1)	- (1.0000)
<i>timcon</i>	1425983 (0.996482)	1425983 (0.996482)	- (0.9959)
<i>tgtcon</i>	1385602 (0.971682)	1385602 (0.971682)	- (DNE)
<i>b4etcon</i>	1356515 (0.979008)	1356515 (0.979008)	- (DNE)
<i>targf</i>	1274109 (0.939252)	1274109 (0.939252)	- (0.9785)
<i>dtgttp</i>	1274041 (0.999947)	1274041 (0.999947)	- (0.9999)
<i>rtdif</i>	1177938 (0.924568)	1177938 (0.924568)	- (0.9976)
<i>eiccon</i>	1146002 (0.972888)	1146002 (0.972888)	- (0.9970)
<i>ticcon</i>	1145991 (0.99999)	1145991 (0.99999)	- (0.9988)
<i>pigap</i>	1030822 (0.899503)	1030822 (0.899503)	- (0.9942)
<i>tgdb4</i>	883570 (0.857151)	883570 (0.857151)	- (composite)
<i>tgdb4tip</i>	559891 (0.633669)	559891 (0.633669)	- (NA)
<i>tgdvrtip</i>	464522 (0.829665)	464522 (0.829665)	- (composite)
<i>tgdvxpi</i>	425813 (0.916669)	425813 (0.916669)	- (composite)
TGB4	425813 (1)	425813 (1)	- (0.9609)
<i>phivtx1</i>	314467 (0.73851)	314467 (0.73851)	- (0.9635)
<i>pv(not tg) Loose60</i>	86782 (0.275965)	42963 (0.136622)	- (NA)
<i>cos3d</i>	76569 (0.882314)	37998 (0.884435)	- (NA)
<i>utqual Loose</i>	72325 (0.944573)	36059 (0.948971)	- (0.9637)
<i>rngmom</i>	65542 (0.906215)	32893 (0.912199)	- (0.9225)
<i>rsdedxmax</i>	46233 (0.705395)	23479 (0.713799)	- (0.9938)
<i>rsdedxcl</i>	41758 (0.903208)	21281 (0.906384)	- (0.9755)
<i>rslike</i>	41292 (0.98884)	21019 (0.987689)	- (DNE)
RSDEDX	41292 (1)	21019 (1)	- (0.0)
<i>tgz > -10.</i>	41108 (0.995544)	20936 (0.996051)	- (NA)
<i>Kpiang > 35</i>	23579 (0.573587)	11973 (0.571886)	- (NA)
<i>Kpiang > 55</i>	14275 (0.605412)	7223 (0.603274)	- (NA)
Piscat TD1 Acc.	0.00776 ± 0.000006	0.00393 ± 0.000003	±

UTC	0.94348 ± 0.000772	0.94348 ± 0.000772	<i>measured in $\pm km^2$</i>
OPS	0.97404 ± 0.003909	0.97357 ± 0.005020	<i>not \pm measured</i>
TGkin	0.65879 ± 0.002693	0.65965 ± 0.003466	0.8115 ± 0.0020
Kpi2	0.60542 ± 0.002693	0.60593 ± 0.003466	0.8115 ± 0.0020

Table 20: Kpi2 Summary Table.

Table 21: Kpi2 UTC Branch no. 1

Cuts	kp2loose acc	kp2tight acc	bipulkp2acc acc
<i>BADRUN</i>	1903930 (-)	1903930 (-)	- (-)
<i>RD_TRK</i>	1903879 (-)	1903879 (-)	- (-)
<i>TRKTIM</i>	1903084 (-)	1903084 (-)	- (-)
<i>STLAY</i>	1499739 (-)	1499739 (-)	- (-)
<i>BAD_STC</i>	1494951 (-)	1494951 (-)	- (-)
<i>TARGET</i>	1494951 (-)	1494951 (-)	- (-)
<i>UTC</i>	1410463 (0.943484)	1410463 (0.943484)	- (1.0000)
<i>UTC1</i>	1410463 (1)	1410463 (1)	- (notmeasured)
Kpi2 UTC Acc.	0.94348 ± 0.000772	0.94348 ± 0.000772	<i>measured in $\pm km^2$</i>

Table 22: Kpi2 OPS Branch no. 1

Cuts	kp2loose acc	kp2tight acc	bipulkp2acc acc
<i>BADRUN</i>	1903930 (-)	1903930 (-)	- (-)
<i>DUPEV</i>	1903930 (-)	1903930 (-)	- (-)
<i>TRIGGER</i>	1903930 (-)	1903930 (-)	- (-)
<i>RD_TRK</i>	1903879 (-)	1903879 (-)	- (-)
<i>TRKTIM</i>	1903084 (-)	1903084 (-)	- (-)
<i>TARGET</i>	1903084 (-)	1903084 (-)	- (-)
<i>STLAY</i>	1499739 (-)	1499739 (-)	- (-)
<i>UTC</i>	1414994 (-)	1414994 (-)	- (-)
<i>RDUTM</i>	1404710 (-)	1404710 (-)	- (-)
<i>BAD_STC</i>	1400217 (-)	1400217 (-)	- (-)
<i>PDC</i>	1361363 (-)	1361363 (-)	- (-)
<i>b4dedx</i>	1304305 (-)	1304305 (-)	- (-)
<i>bwtrs</i>	1156465 (-)	1156465 (-)	- (-)
<i>b4trs</i>	1081839 (-)	1081839 (-)	- (-)
<i>b4etcon</i>	1073431 (-)	1073431 (-)	- (-)
<i>b4ccd</i>	1059122 (-)	1059122 (-)	- (-)
<i>cpitrs</i>	1053444 (-)	1053444 (-)	- (-)
<i>cpitail</i>	1052979 (-)	1052979 (-)	- (-)
<i>cktrs</i>	852467 (-)	852467 (-)	- (-)
<i>cktail</i>	813300 (-)	813300 (-)	- (-)
<i>tgqualt</i>	750281 (-)	750281 (-)	- (-)
<i>timcon</i>	744274 (-)	744274 (-)	- (-)
<i>tgtcon</i>	736589 (-)	736589 (-)	- (-)
<i>rvtrs</i>	734993 (-)	734993 (-)	- (-)
<i>upvtrs</i>	722488 (-)	722488 (-)	- (-)
<i>Delc Loose</i>	645170 (-)	532832 (-)	- (-)
<i>tggeo</i>	553127 (-)	455671 (-)	- (-)
PSCut06	553127 (-)	455671 (-)	- (-)
<i>icodel14</i>	550747 (-)	453690 (-)	- (-)
<i>cos3d</i>	500121 (-)	412060 (-)	- (-)
<i>layv4</i>	500062 (-)	412012 (-)	- (-)
<i>zfrf</i>	486845 (-)	401170 (-)	- (-)
<i>zutout</i>	486003 (-)	400476 (-)	- (-)
FIDUCIAL	486003 (-)	400476 (-)	- (-)
<i>utcqual Loose</i>	459504 (-)	378571 (-)	- (-)
<i>prrf1</i>	357650 (-)	294190 (-)	- (-)
<i>prrfz</i>	310927 (-)	255817 (-)	- (-)
PRRF	310927 (-)	255817 (-)	- (-)
<i>rsdedxmax</i>	269813 (-)	221950 (-)	- (-)
<i>rsdedxcl</i>	233194 (-)	191872 (-)	- (-)
<i>rslike</i>	224461 (-)	184637 (-)	- (-)
RSDEDX	224461 (-)	184637 (-)	- (-)
<i>rngmom</i>	163889 (-)	134716 (-)	- (-)
Kincut06	163889 (-)	134716 (-)	- (-)
<i>tgdb4</i>	160386 (-)	131752 (-)	- (-)
<i>tgdb4tip</i>	157773 (-)	129486 (-)	- (-)
<i>continued on next page</i>			

Cuts	kp2loose acc	kp2tight acc	bipulkp2acc acc
<i>tgdvxtip</i>	156424 (-)	128356 (-)	- (-)
<i>tgdvxpi</i>	151537 (-)	124578 (-)	- (-)
TGB4	151537 (-)	124578 (-)	- (-)
<i>piflg</i>	124381 (-)	102303 (-)	- (-)
<i>elveto</i>	110625 (-)	91007 (-)	- (-)
<i>tdfool</i>	108292 (-)	89102 (-)	- (-)
<i>tdvarnn02 Loose</i>	93198 (-)	67691 (-)	- (-)
TD Loose	93198 (-)	56350 (-)	- (-)
<i>b4ekz</i>	86403 (-)	52216 (-)	- (-)
<i>dtgttp</i>	86398 (-)	52213 (-)	- (-)
<i>kic</i>	86370 (-)	52195 (-)	- (-)
<i>phivtx1</i>	82912 (-)	49916 (-)	- (-)
<i>rtdif</i>	82323 (-)	49560 (-)	- (-)
<i>iccon</i>	80911 (-)	48704 (-)	- (-)
<i>targf</i>	78692 (-)	47353 (-)	- (-)
<i>ticcon</i>	78677 (-)	47344 (-)	- (-)
<i>pigap</i>	77184 (-)	46471 (-)	- (-)
<i>tgzfool</i>	76238 (-)	45911 (-)	- (-)
<i>tgktim</i>	75507 (-)	45765 (-)	- (-)
<i>timkf</i>	66674 (-)	40384 (-)	- (-)
<i>Kpi2Box</i>	62093 (-)	37613 (-)	- (-)
<i>opsveto</i>	60481 (0.974039)	36619 (0.973573)	- (notmeasured)
Kpi2 OPS Acc.	0.97404 ± 0.003909	0.97357 ± 0.005020	<i>not ± measured</i>

Table 23: Kpi2 TGkin Branch no. 1

Cuts	kp2loose acc	kp2tight acc	bipulkp2acc acc
<i>SetupOPS</i>	62093 (-)	37613 (-)	- (-)
<i>opsveto</i>	60481 (-)	36619 (-)	- (-)
TGPVCUT	59829 (-)	36225 (-)	- (-)
TGDEDX	59179 (0.989136)	35827 (0.989013)	- (0.9858)
<i>tger</i>	59163 (0.99973)	35818 (0.999749)	- (1.0000)
<i>tgenr</i>	57232 (0.967361)	34582 (0.965492)	- (0.9719)
<i>tglike1</i>	56199 (0.981951)	33943 (0.981522)	- (composite)
<i>tglike2</i>	55299 (0.983985)	33394 (0.983826)	- (composite)
TGLIKE	55299 (1)	33394 (1)	- (1.0000)
<i>epitg</i>	49570 (0.8964)	30016 (0.898844)	- (0.9638)
<i>epimaxk</i>	49570 (1)	30016 (1)	- (1.0000)
<i>tgedge</i>	49304 (0.994634)	29866 (0.995003)	- (0.9992)
<i>drp</i>	49219 (0.998276)	29810 (0.998125)	- (0.9998)
<i>chi567 Loose</i>	42331 (0.860054)	25654 (0.860584)	- (0.8400)
<i>chi5max</i>	39415 (0.931114)	23896 (0.931473)	- (0.9799)
Kpi2 TGkin Acc.	0.65879 ± 0.002693	0.65965 ± 0.003466	0.8115 ± 0.0020