CUT	No box	PNN2BOX	KP2BOX
	30993416		
BAD_RUN,KERROR	30408052		
SKIM5,RECON	10484595		
PSCUT06	3111402		
DELCO3	3092426		
TDCUT02	722072		
KINCUT06	423120		
$\overline{PVCUT}$		40489	339876
B4EKZ(IC)		28908	309694
TGZFOOL		28501	304720
EPITG		16373	267661
EPIMAXK		16373	267661
TARGF		13938	258590
DTGTTP		13938	258582
RTDIF		13833	256372
DRP		13643	255493
TGKTIM		13403	252988
EIC		13124	248783
TIC		13124	248782
TGEDGE		12906	246463
TGDEDX		12153	244952
TGENR		11891	238457
PIGAP		11709	236768
TGB4		10588	225426
KIC		10583	225320
PHIVTX		7959	217980
OPSVETO		7005	208397
TGLIKE		6600	201733
TIMKF		5313	177363
NPITG		5313	177363
ALLKFIT		4935	166476
TPICS		4931	166449
EPIONK		4672	158650
CHI567		3832	136005
VERRNG		3243	127555
CHI5MAX		3033	118899
ANGLI		3021	118812
CCDBADFIT		2435	94915
CCDPUL		321	41428

CLASS	PNN2BOX				KP2BOX		
	bef. PV	af. PV	rejection	bg (3/3)	bef. PV	af. PV	rejection
1	1	1	1.0±0.0	0.000±0.000	41453	25	1658.1±331.5
2	24312	10	2431.2±768.7	0.396±0.126	155745	129	1207.3±106.3
3	2236	2	1118.0±790.2	0.862±0.610	58098	56	1037.5±138.6
4	3153	1	3153.0±3152.5	0.306±0.306	49288	37	1332.1±218.9
5	28701	11	2609.2±786.5	0.369±0.112	183507	151	1215.3±98.9
6	3147	2	1573.5±1112.3	0.612±0.433	78116	69	1132.1±136.2
7	27984	8	3498.0±1236.6	0.275±0.097	96080	72	1334.4±157.2
8	169	1	169.0±168.5	5.732±5.750	8214	7	1173.4±443.3
9	23286	9	2587.3±862.3	0.372±0.124	173364	145	1195.6±99.2
10	11585	4	2896.2±1447.9	0.333±0.166	30210	28	1078.9±203.8
11	23	1	23.0±22.5	43.773±44.774	2034	2	1017.0±718.8
12	25795	10	2579.5±815.6	0.373±0.118	164660	133	1238.0±107.3
13	2642	2	1321.0±933.7	0.730±0.516	63158	59	1070.5±139.3

CUT	Rejection PBOX from KP2BOX		Normalization $\overline{RSDEDX}$ or $\overline{CHIRF}$	
	KP2BOX	PNN2 RE BOX	KP2BOX	PNN2BOX
SETUP	63365	491	17024	134
LAYER14	63323	491	17014	134
FIDUCIAL	58298	448	15296	126
UTCQUAL	56434	435	14641	115
RNGMOM	55952	435	14499	101
RSDEDX	48930	82	0	0
PRRF	41453	61	0	0
PVCUT	25	0	8	0
RSSCAT background = 0.005				

BOX	eff	rej	norm_tg	norm_rs	Nrs	PV rej	bg
PV60,DELCO3,BOX_E949,LOOSE_TD	0.741	7.13	321	101	3.03444	1658.1	0.005
PV60,DELCO3,BOX_E787,LOOSE_TD	0.741	8.81	245	58	0	1658.1	0.000
PV60,DELCO6,BOX_E949,LOOSE_TD	0.742	7.12	275	90	3.24412	1709.7	0.006
PV60,DELCO6,BOX_E787,LOOSE_TD	0.742	8.61	208	52	0	1709.7	0.000
PV30,DELCO3,BOX_E949,LOOSE_TD	0.741	7.13	321	101	3.03444	4605.9	0.002
PV30,DELCO3,BOX_E787,LOOSE_TD	0.741	8.81	245	58	0	4605.9	0.000
PV30,DELCO6,BOX_E949,LOOSE_TD	0.742	7.12	275	90	3.24412	4369.2	0.002
PV30,DELCO6,BOX_E787,LOOSE_TD	0.742	8.61	208	52	0	4369.2	0.000
PV60,DELCO3,BOX_E949,TIGHT_TD	0.743	6.93	251	77	2.21151	1712.7	0.004
PV60,DELCO3,BOX_E787,TIGHT_TD	0.743	8.13	188	46	0	1712.7	0.000
PV60,DELCO6,BOX_E949,TIGHT_TD	0.745	6.93	216	67	2.08258	1721.8	0.004
PV60,DELCO6,BOX_E787,TIGHT_TD	0.745	8.00	162	40	0	1721.8	0.000
PV30,DELCO3,BOX_E949,TIGHT_TD	0.743	6.93	251	77	2.21151	3853.5	0.002
PV30,DELCO3,BOX_E787,TIGHT_TD	0.743	8.13	188	46	0	3853.5	0.000
PV30,DELCO6,BOX_E949,TIGHT_TD	0.745	6.93	216	67	2.08258	3658.9	0.002
PV30,DELCO6,BOX_E787,TIGHT_TD	0.745	8.00	162	40	0	3658.9	0.000

BOX	norm.	before PV	after PV	rejection	background
PV60,DELCO3,BOX_E949,LOOSE_TD					
CLASS 2	321	24312	10	2431.2±768.7	0.396±0.125
CLASS 5	321	28701	11	2609.2±786.6	0.369±0.111
CLASS 7	321	27984	8	3498.0±1236.6	0.275±0.097
CLASS 9	321	23286	9	2587.3±862.3	0.372±0.124
CLASS 12	**321**	**25795**	**10**	**2579.5±815.6**	**0.373±0.118**
PV60,DELCO3,BOX_E787,LOOSE_TD					
CLASS 2	245	19605	9	2178.3±725.9	0.338±0.113
CLASS 5	245	23007	10	2300.7±727.4	0.320±0.101
CLASS 7	245	22113	8	2764.1±977.1	0.266±0.094
CLASS 9	245	18770	8	2346.2±829.3	0.313±0.111
CLASS 12	**245**	**20758**	**9**	**2306.4±768.6**	**0.319±0.106**
PV60,DELCO6,BOX_E949,LOOSE_TD					
CLASS 2	275	20739	5	4147.8±1854.7	0.199±0.089
CLASS 5	275	24955	6	4159.2±1697.8	0.198±0.081
CLASS 7	275	25243	6	4207.2±1717.4	0.196±0.080
CLASS 9	275	19947	4	4986.8±2493.2	0.165±0.083
CLASS 12	**275**	**22176**	**5**	**4435.2±1983.3**	**0.186±0.083**
PV60,DELCO6,BOX_E787,LOOSE_TD					
CLASS 2	208	16742	5	3348.4±1497.2	0.186±0.083
CLASS 5	208	20020	6	3336.7±1362.0	0.187±0.076
CLASS 7	208	20017	6	3336.2±1361.8	0.187±0.076
CLASS 9	208	16073	4	4018.2±2008.8	0.155±0.078
CLASS 12	**208**	**17856**	**5**	**3571.2±1596.9**	**0.175±0.078**
PV30,DELCO3,BOX_E949,LOOSE_TD					
CLASS 2	321	24312	3	8104.0±4678.6	0.119±0.069
CLASS 5	321	28701	3	9567.0±5523.2	0.101±0.058
CLASS 7	321	27984	2	13992.0±9893.5	0.069±0.049
CLASS 9	321	23286	2	11643.0±8232.5	0.083±0.058
CLASS 12	**321**	**25795**	**3**	**8598.3±4963.9**	**0.112±0.065**
PV30,DELCO3,BOX_E787,LOOSE_TD					
CLASS 2	245	19605	2	9802.5±6931.1	0.075±0.053
CLASS 5	245	23007	2	11503.5±8133.9	0.064±0.045
CLASS 7	245	22113	2	11056.5±7817.8	0.066±0.047
CLASS 9	245	18770	1	18770.0±18769.5	0.039±0.039
CLASS 12	**245**	**20758**	**2**	**10379.0±7338.7**	**0.071±0.050**
PV30,DELCO6,BOX_E949,LOOSE_TD					
CLASS 2	275	20739	2	10369.5±7332.0	0.080±0.056
CLASS 5	275	24955	2	12477.5±8822.6	0.066±0.047
CLASS 7	275	25243	2	12621.5±8924.4	0.065±0.046
CLASS 9	275	19947	1	19947.0±19946.5	0.041±0.041
CLASS 12	**275**	**22176**	**2**	**11088.0±7840.0**	**0.074±0.053**
PV30,DELCO6,BOX_E787,LOOSE_TD					
CLASS 2	208	16742	2	8371.0±5918.8	0.075±0.053
CLASS 5	208	20020	2	10010.0±7077.8	0.062±0.044
CLASS 7	208	20017	2	10008.5±7076.7	0.062±0.044
CLASS 9	208	16073	1	16073.0±16072.5	0.039±0.039
CLASS 12	**208**	**17856**	**2**	**8928.0±6312.7**	**0.070±0.049**

BOX	norm.	before PV	after PV	rejection	background
PV60,DELCO3,BOX_E949,TIGHT_TD					
CLASS 2	251	18084	7	2583.4±976.2	0.292±0.110
CLASS 5	251	21334	8	2666.8±942.7	0.282±0.100
CLASS 7	251	20758	6	3459.7±1412.2	0.218±0.089
CLASS 9	251	17296	6	2882.7±1176.7	0.261±0.107
CLASS 12	**251**	**19188**	**7**	**2741.1±1035.8**	**0.275±0.104**
PV60,DELCO3,BOX_E787,TIGHT_TD					
CLASS 2	188	14552	6	2425.3±989.9	0.233±0.095
CLASS 5	188	17077	7	2439.6±921.9	0.231±0.087
CLASS 7	188	16364	6	2727.3±1113.2	0.207±0.084
CLASS 9	188	13918	5	2783.6±1244.6	0.203±0.091
CLASS 12	**188**	**15414**	**6**	**2569.0±1048.6**	**0.220±0.090**
PV60,DELCO6,BOX_E949,TIGHT_TD					
CLASS 2	216	15438	4	3859.5±1929.5	0.168±0.084
CLASS 5	216	18569	5	3713.8±1660.6	0.175±0.078
CLASS 7	216	18739	5	3747.8±1675.8	0.173±0.077
CLASS 9	216	14838	3	4946.0±2855.3	0.131±0.076
CLASS 12	**216**	**16509**	**4**	**4127.2±2063.3**	**0.157±0.079**
PV60,DELCO6,BOX_E787,TIGHT_TD					
CLASS 2	162	12431	4	3107.8±1553.7	0.156±0.078
CLASS 5	162	14865	5	2973.0±1329.3	0.164±0.073
CLASS 7	162	14821	5	2964.2±1325.4	0.164±0.073
CLASS 9	162	11926	3	3975.3±2294.8	0.122±0.071
CLASS 12	**162**	**13263**	**4**	**3315.8±1657.7**	**0.147±0.073**
PV30,DELCO3,BOX_E949,TIGHT_TD					
CLASS 2	251	18084	2	9042.0±6393.3	0.083±0.059
CLASS 5	251	21334	2	10667.0±7542.4	0.071±0.050
CLASS 7	251	20758	1	20758.0±20757.5	0.036±0.036
CLASS 9	251	17296	1	17296.0±17295.5	0.044±0.044
CLASS 12	**251**	**19188**	**2**	**9594.0±6783.6**	**0.078±0.056**
PV30,DELCO3,BOX_E787,TIGHT_TD					
CLASS 2	188	14552	1	14552.0±14551.5	0.039±0.039
CLASS 5	188	17077	1	17077.0±17076.5	0.033±0.033
CLASS 7	188	16364	1	16364.0±16363.5	0.034±0.034
CLASS 9	188	13918	1	13918.0±13917.5	0.041±0.041
CLASS 12	**188**	**15414**	**1**	**15414.0±15413.5**	**0.037±0.037**
PV30,DELCO6,BOX_E949,TIGHT_TD					
CLASS 2	216	15438	1	15438.0±15437.5	0.042±0.042
CLASS 5	216	18569	1	18569.0±18568.5	0.035±0.035
CLASS 7	216	18739	1	18739.0±18738.5	0.035±0.035
CLASS 9	216	14838	1	14838.0±14837.5	0.044±0.044
CLASS 12	**216**	**16509**	**1**	**16509.0±16508.5**	**0.039±0.039**
PV30,DELCO6,BOX_E787,TIGHT_TD					
CLASS 2	162	12431	1	12431.0±12430.5	0.039±0.039
CLASS 5	162	14865	1	14865.0±14864.5	0.033±0.033
CLASS 7	162	14821	1	14821.0±14820.5	0.033±0.033
CLASS 9	162	11926	1	11926.0±11925.5	0.041±0.041
CLASS 12	**162**	**13263**	**1**	**13263.0±13262.5**	**0.037±0.037**
OTB:PV90,LOOSE_CCDPUL					
CLASS 2	463	21610	143	151.1±12.6	2.953±0.300
CLASS 5	463	28047	180	155.8±11.6	2.868±0.200
CLASS 7	463	27984	156	179.4±14.3	2.503±0.200
CLASS 9	463	22672	144	157.4±13.1	2.836±0.300
CLASS 12	**463**	**23732**	**159**	**149.3±11.8**	**2.998±0.300**
OTB measured					2