SciFi Analysis Summary (Last Upd: 2000.07.21)

		Nov–March	Eff:	June 99	Eff:
MC	**Total**	89157		61186	
After Cuts:	**MUC–3D**	14386	0.16136	8063	0.13178
	LG	7660	0.08592	4722	0.07717
	1^{st} Layer	1835	0.02058	1136	0.01857

Month	**Jun**	**Nov**	**Jan**	**Feb**	**March**	**May**	**Jun**	**Total**
Runs	125	201	275			63	91	755
Good Runs	77	28	68	51	83			307
Subruns	937	1179	2210			583	786	5695
Good Subruns	607	373	462	738	719	565	711	4175
Spills	818158	977399	1925112			518029	695891	
Good Spills	464432	328970	331352	662015	595444	466548	595404	3444165
POT	2.27E+018	1.62E+018	1.73E+018	3.48E+018	3.31E+018	2.51E+018	3.25E+018	1.82E+019
CT(SK)	3.10E+018	3.57E+018	2.22E+018	4.04E+018	3.71E+018	2.55E+018	3.75E+018	2.29E+019
MUC 3D:	287	263	293	606	564	421	519	2953
LG	182	168	162	336	318	241	339	1746
First	65	44	42	81	88	49	68	437
MUC 3D(expected):	339.73	321.44	343.63	691.33	657.76	498.69	644.77	3497.36
LG(expected):	198.96	171.16	182.97	368.11	350.23	265.54	343.32	1880.27
First(expected):	47.87	41	43.83	88.18	83.9	63.61	82.24	450.63
Data/MC	0.845	0.818	0.853	0.877	0.857	0.844	0.805	0.844
	±.05 (St)	±.05 (St)	±.05 (St)	±.036 (St)	±.036 (St)	±.041 (St)	±.035 (St)	±.016 (St)
	+.079 (Sys)	+.077 (Sys)	+.08 (Sys)	+.082 (Sys)	+.08 (Sys)	+.079 (Sys)	+.076 (Sys)	+.079 (Sys)
	–.083 (Sys)	–.08 (Sys)	–.084 (Sys)	–.086 (Sys)	–.084 (Sys)	–.083 (Sys)	–.079 (Sys)	–.083 (Sys)

Constants

Int./pot/ton @FGD
FGD Tons
(SK Tons)
Int/fid^20pot @SK
(Int/fid^20pot @FGD)
(Far/Near Ratio)
SK Effiiciency

Systematic Terms:

FGD Fiducial
Tracking Efficiency
Pi production MC
CC/NC Ratio
Aluminum Crossection
1kt Entering Mu
Ratio(Fid + track + pi)

Event Ratio
Event Ratio June
SK Det. Eff
CT Normilization Error

Expected
(FGD + Event + SK Eff + CT No

Expected June
(FGD + Event + SK Eff + CT No

Far Detector
Far Detector June

Data/MC(LG)	0.91	0.98	0.89	0.91	0.91	0.91	0.99	0.93
	+− .07 (Stat)	+− .08 (Stat)	+− .07 (Stat)	+− .05 (Stat)	+− .05 (Stat)	+− .06 (Stat)	+− .05 (Stat)	+− .02 (Stat)
Data/MC(1L)	1.36	1.07	0.96	0.92	1.05	0.77	0.83	0.97
	+− .17 (Stat)	+− .16 (Stat)	+− .15 (Stat)	+− .1 (Stat)	+− .11 (Stat)	+− .11 (Stat)	+− .1 (Stat)	+− .05 (Stat)
SK Expected	5.09	6.11	3.95	7.41	6.65	4.51	6.32	40.04
	±0.30(St)	±0.38(St)	±0.23(St)	±0.30(St)	±0.28(St)	±0.22(St)	±0.28(St)	±0.74(St)
	+ .92(Sys)	+ .73(Sys)	+ .47(Sys)	+ .89(Sys)	+ .8(Sys)	+ .54(Sys)	+ .76(Sys)	+ 5.12(Sys)
	− .77(Sys)	− .82(Sys)	− .53(Sys)	− .99(Sys)	− .89(Sys)	− .6(Sys)	− .84(Sys)	− 5.44(Sys)
Error All	+ .97	+ .83	+ .53	+ .94	+ .85	+ .58	+ .81	+ 5.17
	− .83	− .9	− .58	− 1.03	− .93	− .64	− .89	− 5.49
(SciFi Only)	+ .56 (A)	+ .69 (A)	+ .44 (A)	+ .76 (A)	+ .68 (A)	+ .48 (A)	+ .65 (A)	+ 3.89 (A)
	− .58 (A)	− .71 (A)	− .45 (A)	− .79 (A)	− .71 (A)	− .49 (A)	− .68 (A)	− 4. (A)
Common	+ .79 (B)	+ .46 (B)	+ .3 (B)	+ .56 (B)	+ .5 (B)	+ .34 (B)	+ .47 (B)	+ 3.41 (B)
	− .59 (B)	− .55 (B)	− .36 (B)	− .67 (B)	− .6 (B)	− .41 (B)	− .57 (B)	− 3.76 (B)

Event Reduction Summary

Run From	1139	2002	2219	2333	2417	2526	2589	
Run To	1276	2213	2323	2416	2525	2588	2688	
Reprocessed Data	156747	214569	134358	224322	201952	153757	206935	1292640
Fiducial	7035	16531	11340	18270	16476	13445	19196	102293
VETM	2192	2597	1898	3170	2837	2243	2985	17922
GoodSpil	1583	1319	1334	2707	2538	2025	2577	14083
VETM−UPS	1298	1109	1113	2282	2160	1721	2190	11873
LGM	781	648	697	1374	1293	1058	1302	7153
Spectrum	534	475	497	1023	970	712	926	5137
MUC 3D:	287	263	293	606	564	421	519	2953
3D−eyescan	287	261	292	597	558	417	515	2927

Internal Consistency

Renorm Factor	1.3	**Ratio Renorm**

	MC	QE	NQE	Renorm	Data	
MUC 3D:	14386	7094	7292	16573.6	2953	1.02
LG	7660	1358	6302	9550.6	1746	1.09
First	1835	479	1356	2241.8	437	

	BG	Expected	Expected Re	Ratio	
MUC 3D:	0				
LG	13.20	1572.36	1701.68	1.10	+-.03
First	0.00	376.67	399.43	1.16	+-.06

Nov Config	June Config
1.487E−016	1.369E−016
8.28	8.28
2.25E+004	2.25E+004
259.81	242.19
1.23E+005	1.13E+005
2.11E−003	2.14E−003
0.805	0.802
+	−
0.030	0.030
0.050	0.050
0.030	0.040
0.060	0.060
0.030	0.030
0.000	0.010
0.094	0.098
0.068	0.085
0.152	0.112
0.030	0.030
0.010	0.010
0.120	0.134
rm)	
0.181	0.152
rm)	
0.075	0.091
0.155	0.116

+-.02
+-.05