newpage **Sellection criteria for fully contained events**

cut	number or events
$\pm 500 \mu sec$, decay-e cut	85936
HE trigger	29200
$\Sigma_{300nsec}$ p.e. $\geq$ 200 p.e.	15200
flasher cuts	14961
F.C.($N_{hitac} < 10$)	84
goodness of the fit > 0	83
$E_{visible} > 30 MeV$	78
$-0.2\mu sec \leq T_{GPS} \leq 1.3\mu sec$	70
$D_{wall} \geq 2m$	44

of proton

# of spill	7410014
# of proton	3.85×10^{19} P.O.T.

efficiency

horn current	250kA (1999/11-2001/04)	200kA (1999/06)
efficiency	78.5%	78.1%

Systematic Errors for FC 22.5kt

SK only [1]	fiducial volume	2%
	reduction	<1%
	MC statistics	1%
	total	3%
1kt correlated [2]	σ_{NC}	$^{+4.3\%}_{-3.6\%}$
	ν spectrum	$^{+2.0\%}_{-1.4\%}$
oscillated expectation [3]		5%

[1] These errors are uncorrelated to 1kt detector.
[2] 1kt correlated errors are correlated with those from the 1kt detector.
[3] Error in the calculated numbers of events for oscillated case.

	FC 22.5kt			
	1-ring			multi ring
		μ-like	e-like	
σ_{NC}	5.8%	7.4%	11.6%	2.0%
1-$\pi(CC)$	1.4%	1.9%	4.2%	2.0%
multi-$\pi(CC)$	2.2%	2.4%	0.8%	5.9%
spectrum	4.2%	5.2%	5.2%	9.2%
f.v.	2%	2%	2%	2%
reduction	<1%	<1%	<1%	<1%
PID	—	3%	33%	—
ring couting	6%	6%	6%	6%
MC stat	1%	1%	1%	1%
from 1kt	10.0%	10.0%	10.0%	10.0%
uncertainty from ν_e flux			3%	
total	14.2%	15.6%	37.8%	16.5%