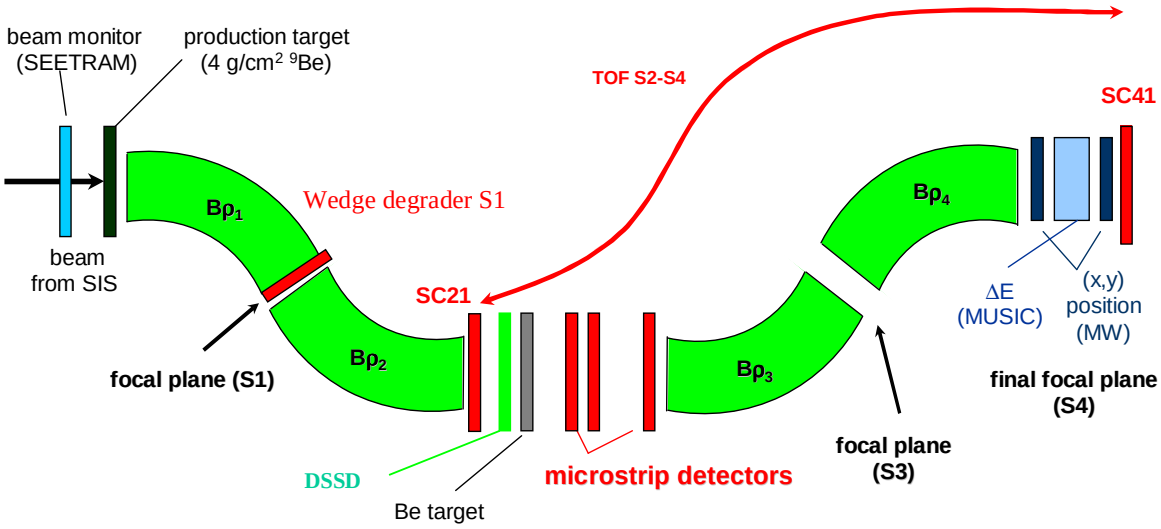
Test of the experiment S271 at FRS, RUN140 (Nov.2005)



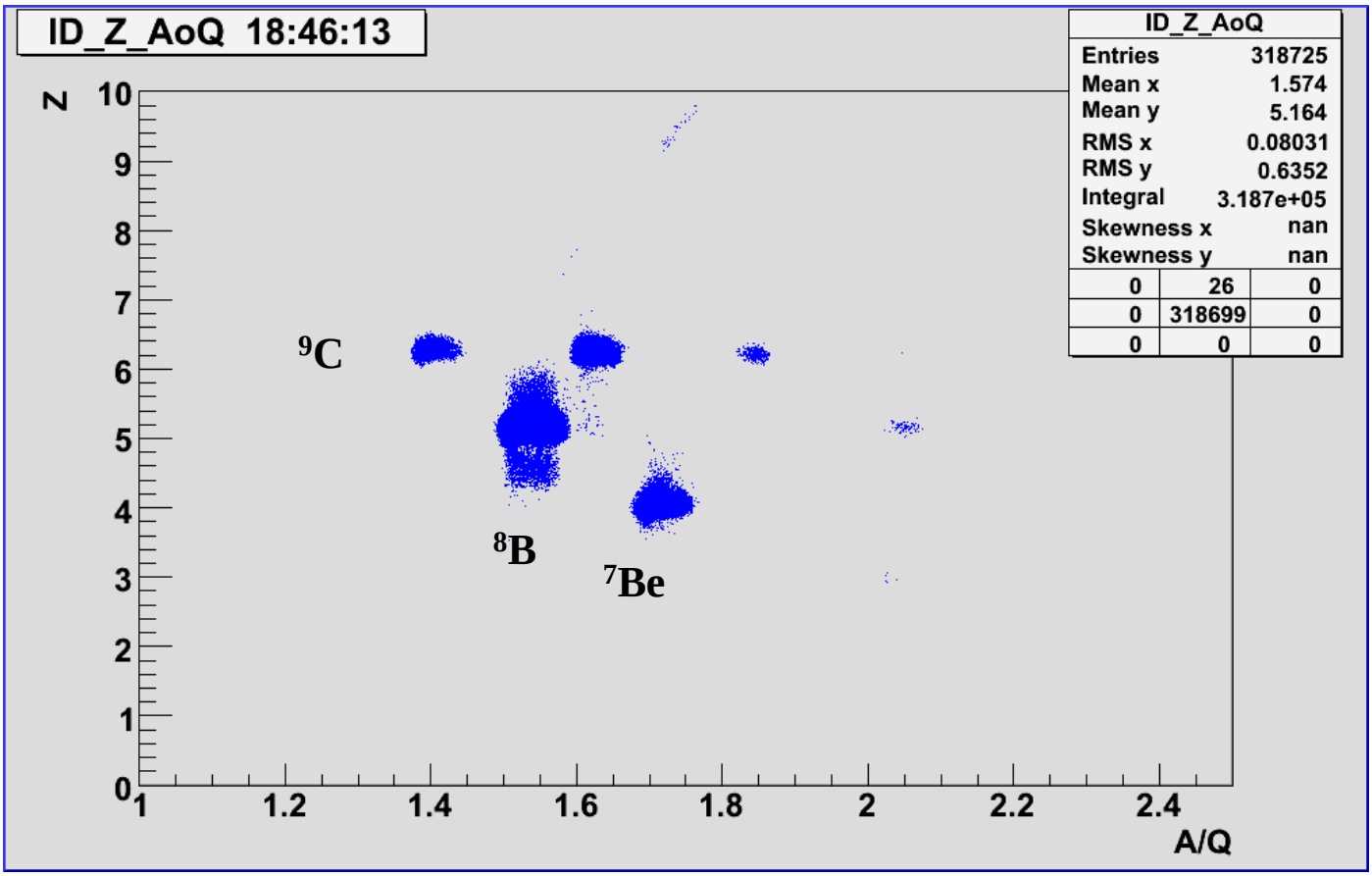
Int=3*10^{8}

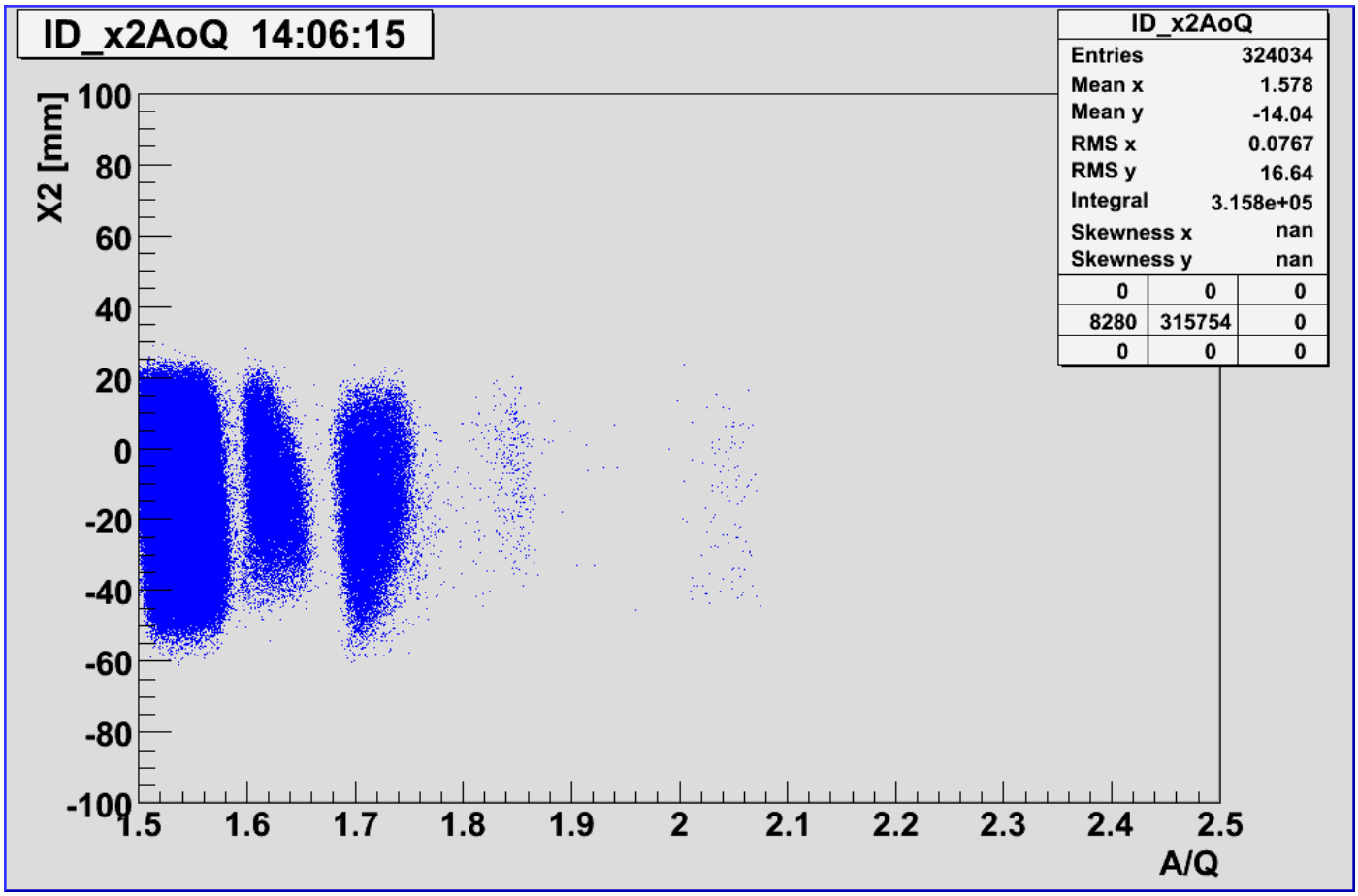
^{12}C → **^{8}B** → **^{8}B**

	S1-S2 transmission	Rate/Int	S2-S4 transmission	Rate/Int
LISE	10%	1.4*10^{-6}	8%	0.15*10^{-6}
EXP		1.2*10^{-6}	33%	0.4*10^{-6}

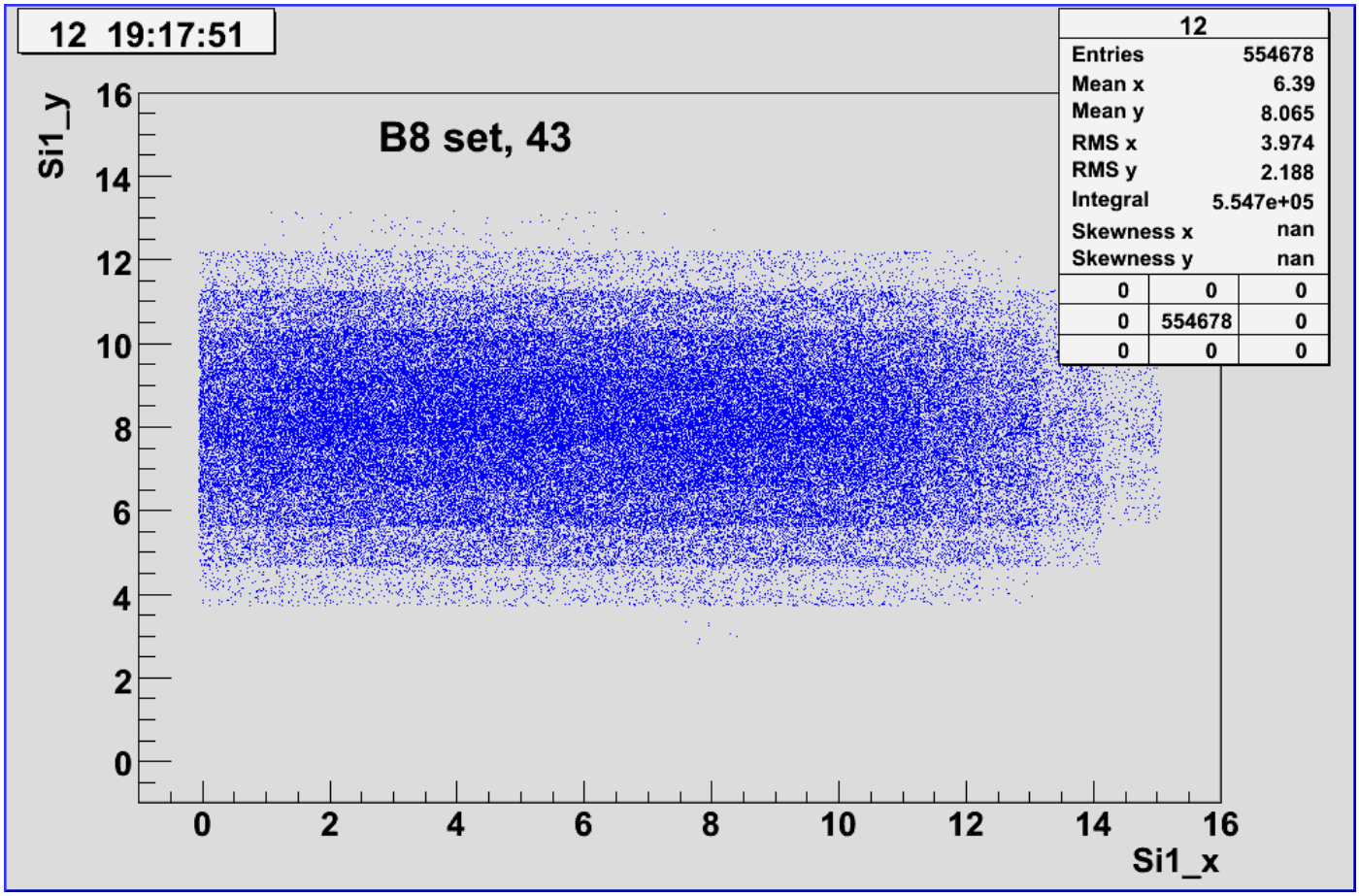
'Background' ^{7}Be → **^{7}Be**

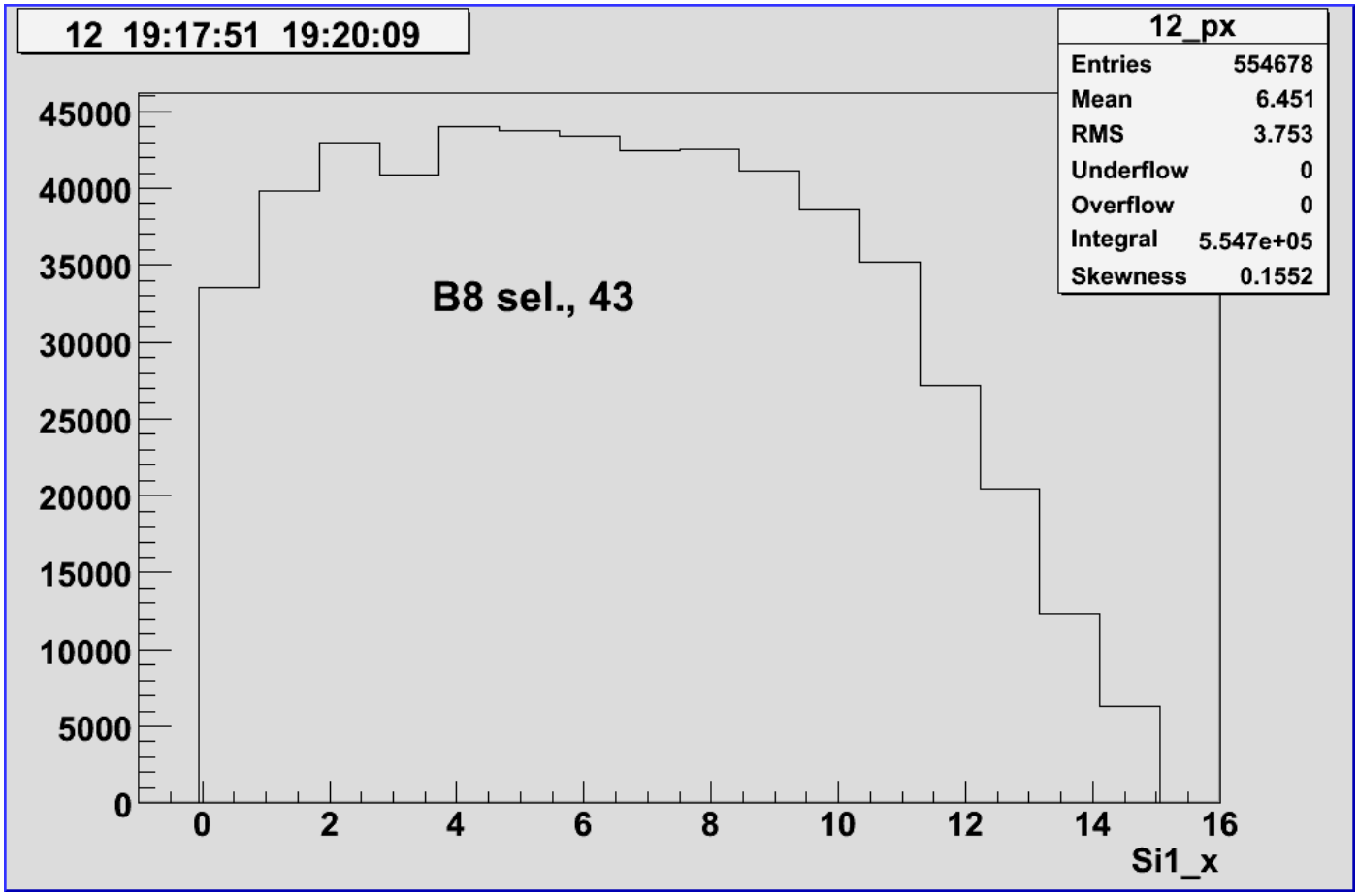
	0.3*10^{-6}	5%	0.015*10^{-6}
	0.4*10^{-6}	20%	0.08*10^{-6}


ID_Z_AoQ 18:46:13
ID_Z_AoQ
Entries 318725
Mean x 1.574
Mean y 5.164
RMS x 0.08031
RMS y 0.6352
Integral 3.187e+05
Skewness x nan
Skewness y nan
0 26 0
0 318699 0
0 0 0
Z
A/Q
9C
8B
7Be

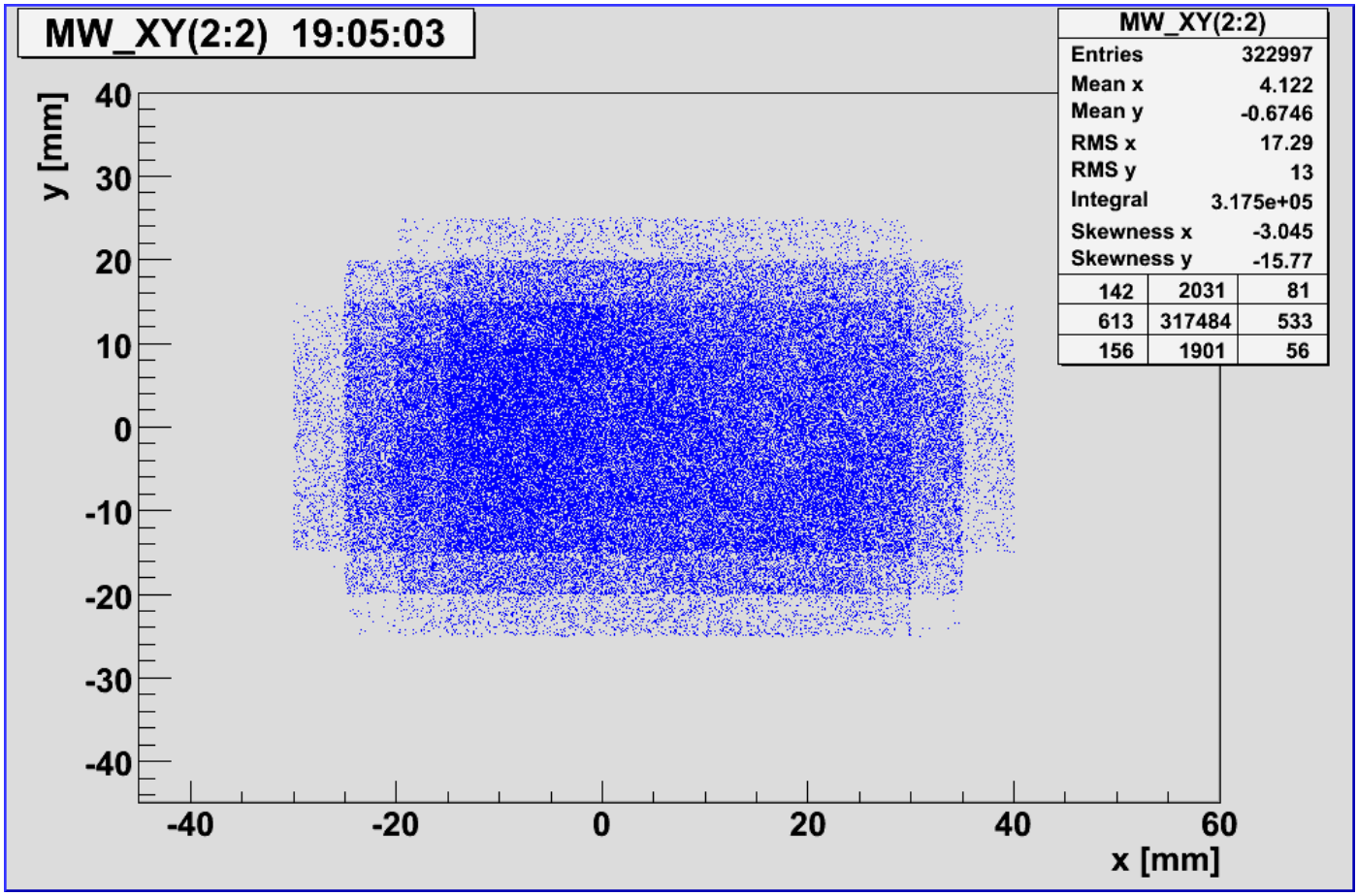

ID_x2AoQ 14:06:15
ID_x2AoQ
Entries 324034
Mean x 1.578
Mean y -14.04
RMS x 0.0767
RMS y 16.64
Integral 3.158e+05
Skewness x nan
Skewness y nan
0 0 0
8280 315754 0
0 0 0
X2 [mm]
A/Q

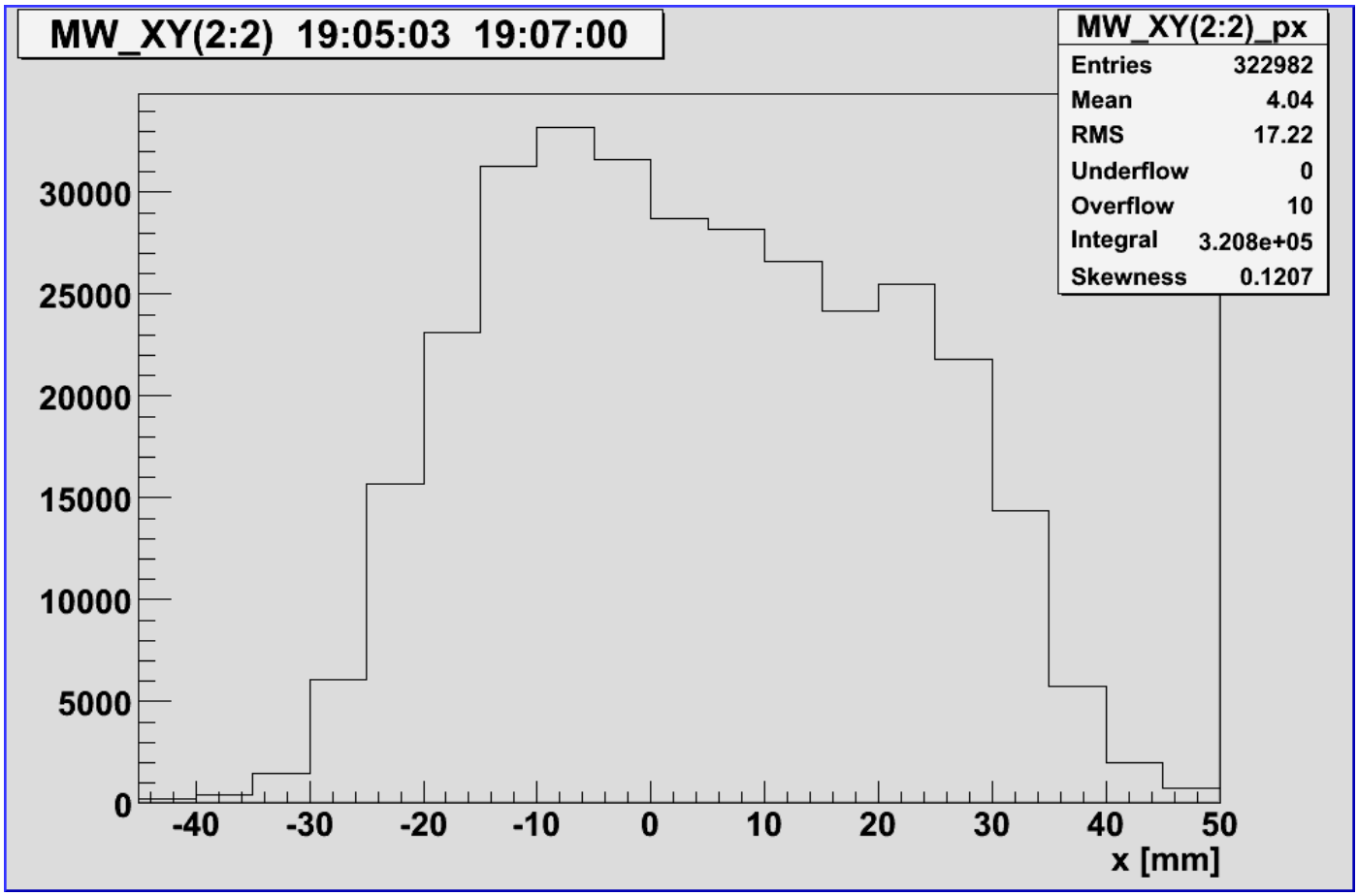
^{8}B at DSSD


12 19:17:51
B8 set, 43
12
Entries 554678
Mean x 6.39
Mean y 8.065
RMS x 3.974
RMS y 2.188
Integral 5.547e+05
Skewness x nan
Skewness y nan
0 0 0
0 554678 0
0 0 0
Si1_y
Si1_x
0 2 4 6 8 10 12 14 16

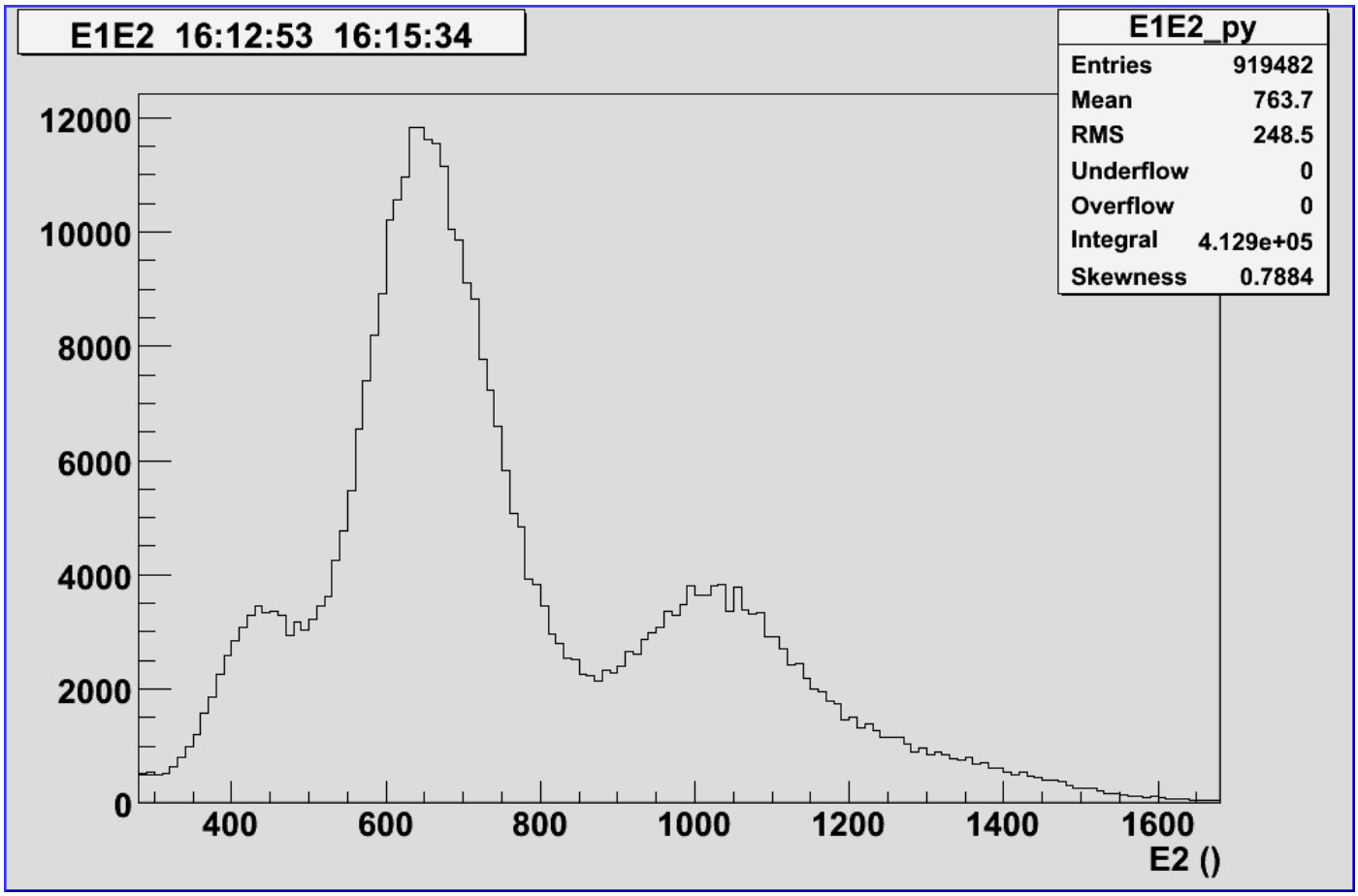

12 19:17:51 19:20:09
B8 sel., 43
12_px
Entries 554678
Mean 6.451
RMS 3.753
Underflow 0
Overflow 0
Integral 5.547e+05
Skewness 0.1552
45000 40000 35000 30000 25000 20000 15000 10000 5000 0
Si1_x
0 2 4 6 8 10 12 14 16

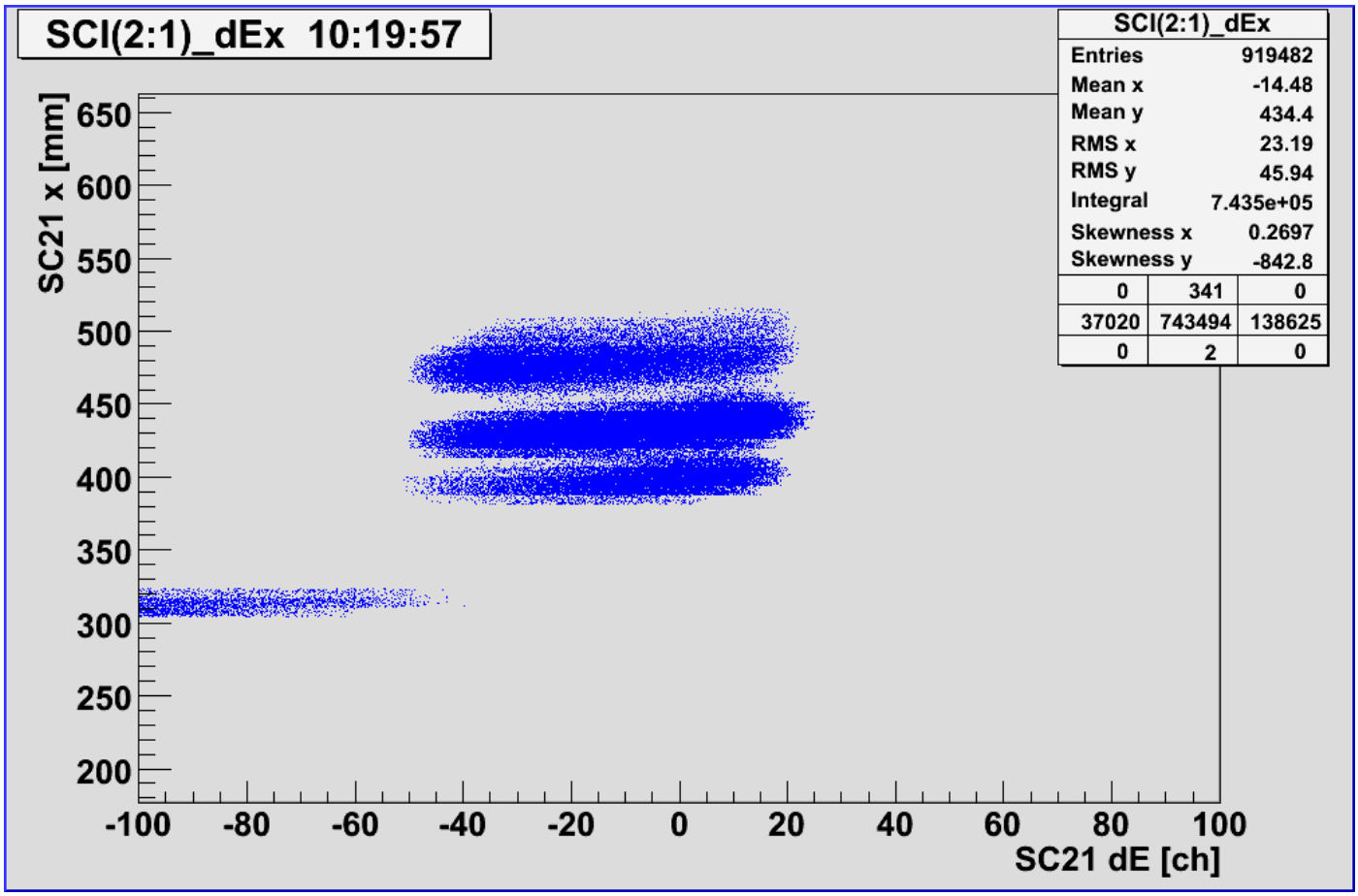
Fragments in MW22





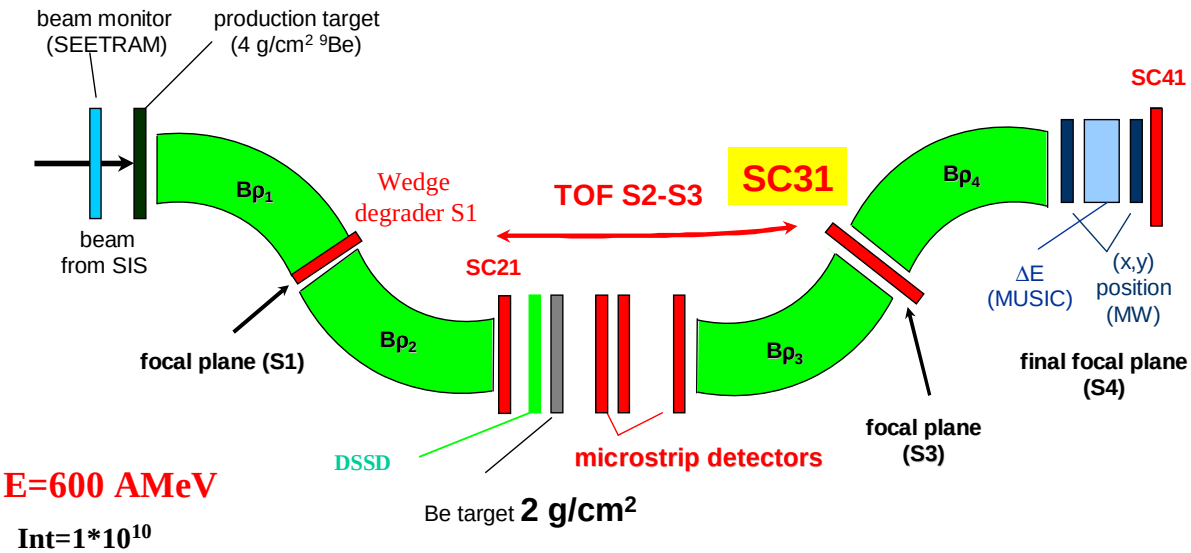
dE in DSSD


E1E2 16:12:53 16:15:34
E1E2_py
Entries 919482
Mean 763.7
RMS 248.5
Underflow 0
Overflow 0
Integral 4.129e+05
Skewness 0.7884
12000
10000
8000
6000
4000
2000
0
400
600
800
1000
1200
1400
1600
E2 ()


SCI(2:1)_dEx 10:19:57
SCI(2:1)_dEx
Entries 919482
Mean x -14.48
Mean y 434.4
RMS x 23.19
RMS y 45.94
Integral 7.435e+05
Skewness x 0.2697
Skewness y -842.8
0 341 0
37020 743494 138625
0 2 0
SC21 x [mm]
650
600
550
500
450
400
350
300
250
200
-100
-80
-60
-40
-20
0
20
40
60
80
100
SC21 dE [ch]

Main run S271 at FRS

Settings for August 10-15, 2006



E=600 AMeV

Int=1*10^{10}

	^{24}Mg	^{20}Mg		^{19}Mg	^{17}Ne	
		S1-S2 transmission	Rate/Int	Rate	S2-S4 transmission	Event rate
LISE		20%	0.7*10^{-7}	12/hour	(20%*10%)~2%	???

'Background' ^{18}Ne

1000/hour 5% 50/hour

	S1-S2 transmission	Rate/Int	Rate	S2-S4 transmission	Event rate
MOCADI	20%	2.7*10^{-7}	45/hour	(75%*34%)~25%	10-30 h^{-1}