



$^{12}C(\alpha, \gamma)^{16}O$   $E_{cm} = 1 MeV \rightarrow D = 5.6\%$ ,  $A = 27 mr$

ENVELOPE WITH

TITLE BROAD ACCEPTANCE EMS TUNE

Project No. \_\_\_\_\_

LOST BEAM

Book No. \_\_\_\_\_

65

POINTS

From Page No. —	STD	X-Y STD	BROAD	BROAD	POINTS
MAGNET	FIELD	ENVELOPE	ACCEPT.	ACCEPT	UNDERLIN
ELEMENTS	SETTINGS	mm x mm	FIELDS	ENVELOPE	
(max env.)			(REL)	mm x mm	
Q1 (50x50)	-.0807	44 x 28	-.0791 (.98)	47 x 30	
Q2 (76x76)	.0736	69 x 20	.0721 (.98)	74 x 21	SEE glos output
Q3 (76x76)	.0679	66 x 8	.0749 (1.10)	67 x 15	fragment
Q4 (76x76)	-.0896	59 x 17	-.0896 (1.00)	57 x 32	
Q5 (76x76)	.0494	79 x 15	.0464 (.94)	69 x 28	
ED1 (50x76)		62 x 12		50* x 20	
Q6 (50x50)	-.0439	33 x 12	-.0417 (.95)	36 x 18	
Q7 (76x76)	.0631	70 x 7	.0599 (.95)	70 x 14	
Q8 (76x76)	.0467	62 x 7	.0495 (1.06)	76* x 11	
ED2 (50x76)		53 x 23		50* x 38	
Q9 (62x62)	-.0362	27 x 52	-.0362 (1.00)	26 x 74*	WE NEED 6 QUAD HERE NOT "5."
Q10 (62x62)	.0404	29 x 33	.0404 (1.00)	38 x 47	
END		5 x 4		20 x 6	

DETECTOR

\* 2<sup>nd</sup> ORDER ABERRATIONS CAN BE TUNED TO ZERO AT THESE 4 POINTS USING SX1, SX2, SX3, + SX4.

To Page No. \_\_\_\_\_

Witnessed & Understood by me,	Date	Invented by	Date	Signature
		Recorded by		

18 Aug 2003  
Joel