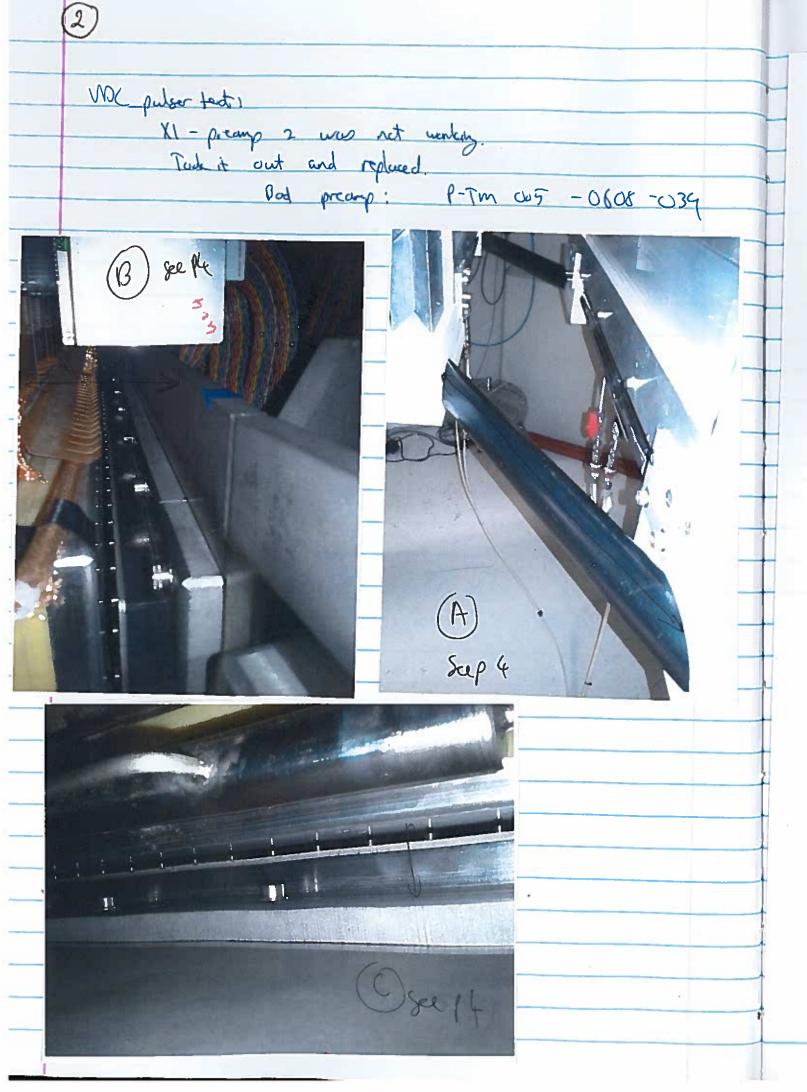
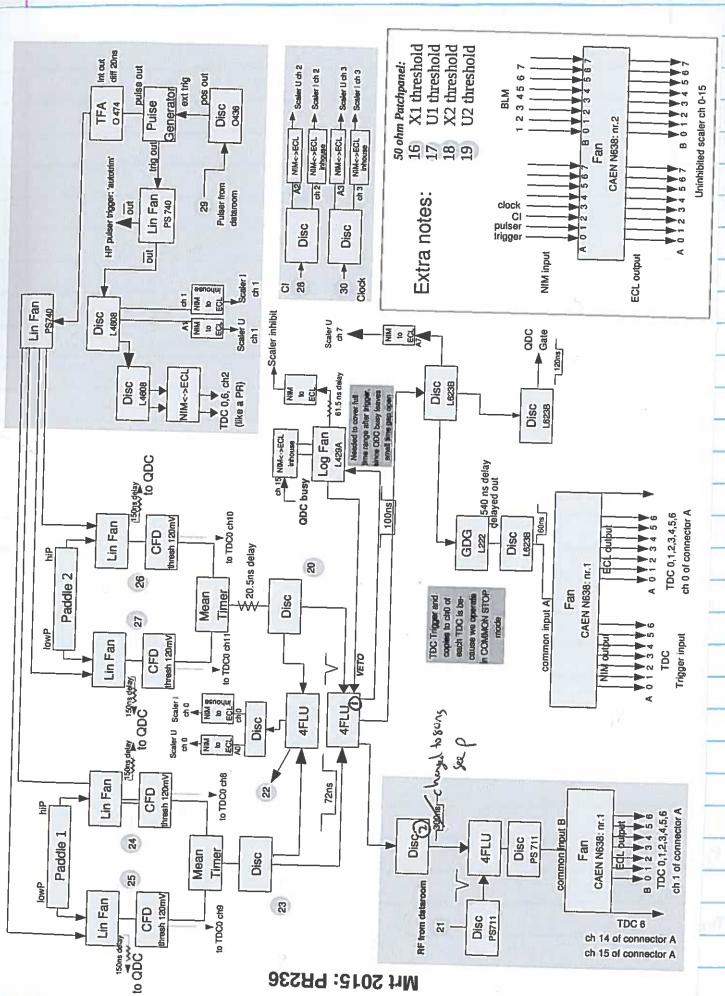
Experiment: PR 236 Date: 20/03/2015 List of collaborator: (Name, Surname, email address and Institution) R. Nevely neveling @ blabs. ac. 29 Plilip Als & pods (segnal.com ;TL+SUN Lindsay Donaldson Monftahou Latif Elias Sideras-Haddad John Carter Ricky Smit Kevin yabo Usman una Pellegri Bernadette Reseiro UWC Zandile Mabika UWC Smarajit Triambale UWC.

PR236

Fine structure of the Isoscalar Giant Monopole Resonance in ²⁰⁸Pb, ⁹⁰Zr, ⁵⁸Ni and ⁴⁰Ca, using alpha scattering at zero degrees





20/03/2015

. First week end (20th-23rd Murch) TARGETS LADDER

			7
	#1	EMPTY	1.33 my cm
= 0 7	2	Viewer	7 1.33 my cm
	3	26 Mg	-> ask Ratiel (some = PRZIT?)
	4	90 Zv	
	5	58 N;	
	6	Mylar	

TARGET THICKINESS -> 58 N; 0.7 mg/cm² confirmed with XRF

902v 0.9 mg/cm² average

Mylav 200 mg/cm²

are to a problem with the HD Focal place we put the * KAPTON WINDOW of Medium Dispersion Focal Plane

Note: Camera bedring at VOC HU is 50 N perturband # 24

The state of the s		KIT K	

Distance between VDC and Spectroneler exit window.

= 86,7 mm

Lo this is upon fige.

Volum uper pipe: 43,2mm (Soo pz: A)

PCB board to superstative: 80mm (p2:B)

Spestrudre to VPCI (alminim form): 50 mm.

Date	20/03/2015
Week end #	1

Targets	#	Material	Thickness	Thickness measurement method
	1	EMPTY	ſ.	
	2	VIEWER		z
	3	26 Mg	1.33 mgaiz	See RN enail 13 Feb 15
	4	90Zr	0.9 mg/cm2	A Office
	5	58 Ni	0.7 mg/cm2	confirmed with XRF
	6	MYLAR	200 UM/CM2	
		erpendicular to am at [°]	-118	0
itional Notes:	Target	to came	4) -13	80

Beam	Energy [MeV]	200	
	Pulse selection (yes/no)	٨٥	
	Injectot (SPC1 or SPC2)	5PC 2	
	SSC Transmission	FC 19J	
		FC 1X	
	<u> </u>	FC 11X	
		FC 4P	
		FC 4S	
		FC Target	

Additional Notes:

Scattering chamber	In beam position	2051
Jecansol	Out of beam position	2500

Additional Notes:

Detector Setup	Order of detectors	Detectors	Sketch
<u> </u>	VDC 1	XA	100 (PP) 71 A 23
		4	Note from PRZZ6 P 33 logbotch 2
	VDC 2	X&	_
		U	2 HU= - 2.96 in would
J	Paddle 1	te" new	2 HU= - 2 96 1
	Paddle 2	12" new	The Voc
Focal	Plane (HD or MD)		140
Kapton	window (HD or MI	HD inthat angle (see pg)	
			\/

Additional Notes: trigger level 2 (harsed to 2 on P16

7	
_,	1
	V

Collimator Carousel	#	In perspex	In beam
	1	49 @ 11mm	NOTHING
	2	63 Ø	PEPPERLIOT
	3	SOLID	49011mm
	4	42Ø 8mm Ta	<i>6</i> 3 Φ
	5	NOTHING	SOLID
	6	PEPPERPOT	42 \$ 8 mm Td
		Configuration (not 0 deg/ =0 deg)	= 0 deg-

Additional Notes:

Spectometer Parameters	Angle	+ 0.05°	(double check!)
	Magnets settings	Q	-454.415
	***	D1	413.2
		Н	-2.836
		D2	271.271
_		K	2.836
	Superknob settings	Dipole 1	413.2
		D1/D2	1.5232
		D1/Q	-0.9089
		D1/K	145.6912
		D1/H	-145,.6912
	SP Interlock control (En	able/ Disable)	Enabled

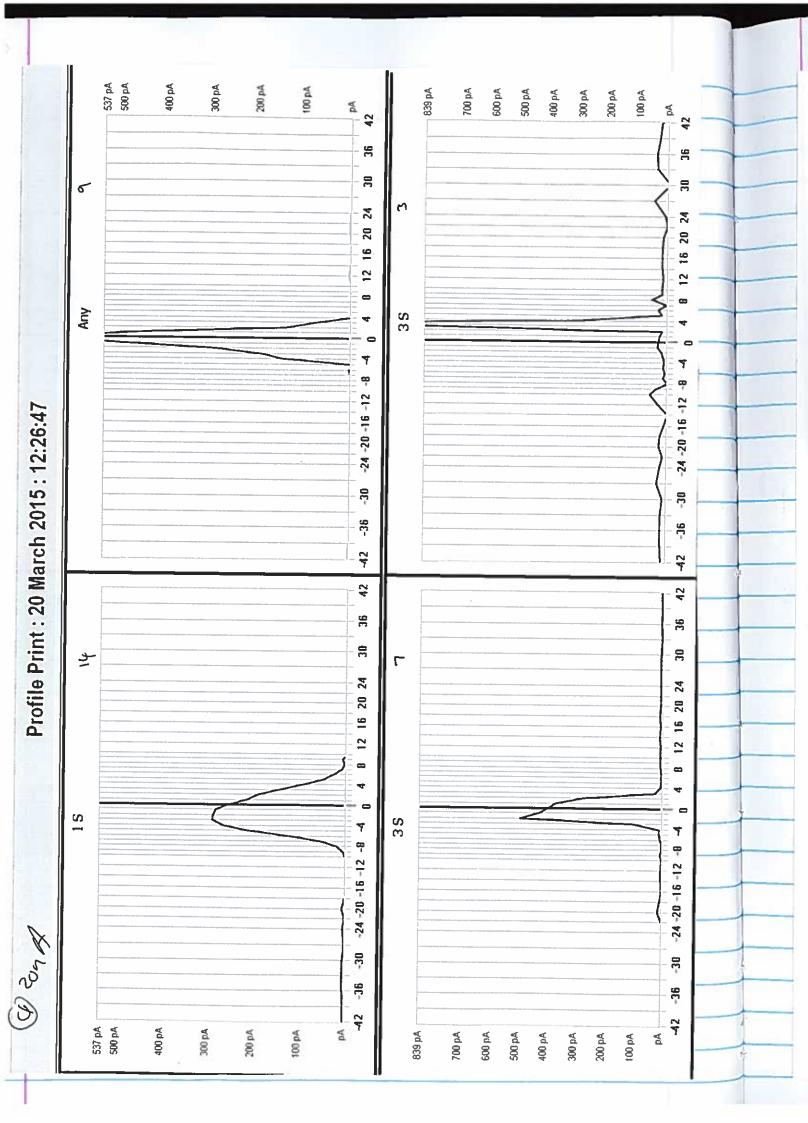
Additional Notes:



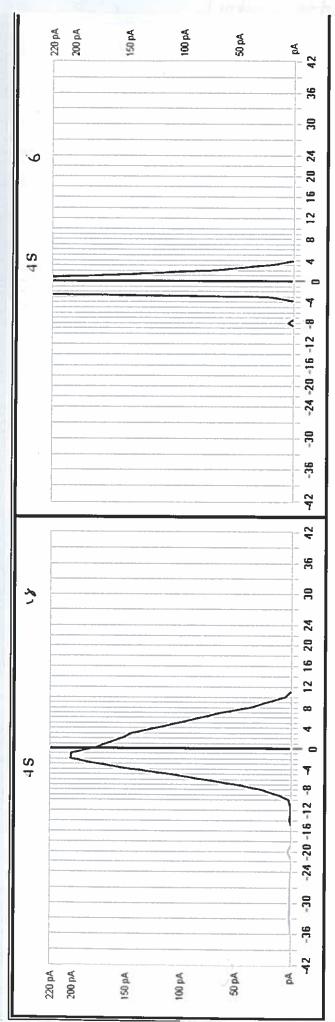
Itigh dispersion food place Kepten winder

Note that the one that







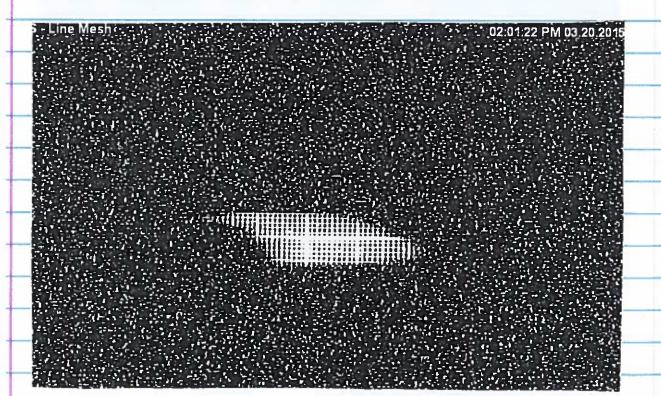


X: 6.68 19 mm mod

4: 1 fel. It man med.

[Seen = 196.5 MeV

S - Line Target 02.01.36 PM 03.20.2015



Energie_NMR.txt

** EnMet Ver5.7 Oct 2013 **

Versnelde deeltjie Element

Fi

** BEREKENDE ENERGIE **** CALCULATED ENERGY ** 2015/03/20

Accelerated particle :

Atoomgetal = Atomic Number = 2

Massagetal = Mass Number = 4

Rel. Atoommassa = Rel. Atomic Mass = 4.0026

Natuurlike voorkoms = Natural Abundance = 100 %

Ladingsgetal Q = Charge State Q = 2

1 Tesla = 42.5759 MHz [Linear Relation]

BEAM ENERGY FROM NMR-READING/S (frequency) :

BEAM ENERGY FROM NMR-READING/S (field):

B3P Beam Energy = 196.45 MeV from NMR = 1.0224 Tesla

14:40 (yde K600 fidds to PR226 values

Q = 455.716

01 : 414.2

H = -2.843

(C = 2.843



