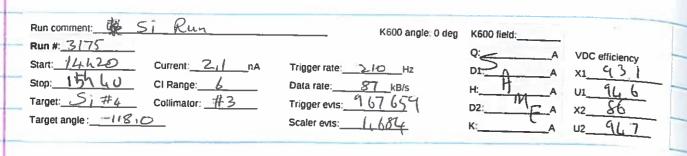


Run comment: 5 hon Data K600 angle: 0 deg K600 field:	
Run #: 3154 Start: 23: b-14	Run comment: Si okcita K600 angle: 0 deg K600 field:
Ston: OT 3 4 4 CI Ranne: 60 Data rate: 60 kB/s H: 01 A U1 94	Run #: 3158 Q: G A VDC efficiency Start: 02: 29 Current: 1 7 nA Trigger rate: 100 Hz D1: A A X1 94
Target: Si         Collimator: #3         Trigger evts:         D2: FA X2 87           Target angle: -1150         Scaler evts:         K: A U2 45	Stop: 03:29 CI Range: 601 Data rate: 40 kB/s H: 11 A U1 44
Lo Ibean -p to 3 nA	Target:       Aut S       H       Collimator:       H3       Trigger evts:       D2:       E       A       X2       S 7         Target angle:       -118       Scaler evts:       K:       A       U2       9
RN notices excies that the pumps	pumps crestill running
to the spectorete were of this	
was notes ted by the Deam dump Repag the vocamen. Check every cape 2	Run comment: 24 14 Data K600 angle: 0 deg K600 field: O: S A VDC efficiency
Keeping the vocaum. Check every rape 2	2 Va 1 Vac children
of Lows to see that it's still ok.	Stop: 04:02 CI Range: 6 n A Data rate: KB/s H: 0 A LID ALID
	Target: 43 Collimator: 43 Trigger evts: 306144 D2: EA X2 81
THE D	Scaler evis: (+1,8 K: A U2 45
Run comment: All Dackness on clear K600 angle: 0 deg K600 field:  Run #: 3155  Q: C A VDC efficiency	Run comment: K600 angle: 0 deg. K600 field:
Start: 00: 45 Current: 3.2 nA Trigger rate: 142 Hz D1: A X1 94	Run comment:
Stop: 0 1 15 CI Range: 6 1 A Data rate: 90 kB/s H: 7 A U1 94  Target: 413 Trigger evis: 37384 (-1753) D2: A X2 26	Start: OL: 03 Current: 3.5 nA Trigger rate: 77 Hz D1: A A X1 95
Target angle: Scaler evis: 1753 K: A U2 94	Target: MT Collimator: 43 Trigger evis: 53 88 D2: E A X2 85
	Target angle :
Run comment: K600 angle: 0 deg K600 field:	
Run #: 3156       Q: S A VDC efficiency         Start: 61 1 6 Current: 3.5 nA Trigger rate: 87 Hz D1: A X1 9 4	Run comment:
Stop: 01 . 26 CI Range: 604 Data rate: 30 kB/s H: 17 A U1 93	Start: 61, 11 Current: 228 nA Trigger rate: 2.66 Hz D1: A A X1 92
Target:         Collimator:         3         Trigger evts:         D2:         L         A         X2         8.8           Target angle :         Scaler evts:         K:         A         U2         45	Stop: 05:14 CI Range: 6 0 A Data rate: 100 kB/s H: 17 A U1 94  Target: 12C #5 Collimator: #3 Trigger evts: 902 732 D2: 1 A X2 86
	Target angle: - 118 Scaler evis: 3448 K: A U2 94
Lo ODB error: appelled wize 832 2	
412 0	Run comment: Silicon Data K600 angle: 0 deg K600 field:
Run comment: K600 angle: 0 deg K600 field:	Start: OS:16 Current: 3:5 00 Towns 2000
Run #: 3157 Q: C A VDC efficiency	Stop: 16 CI Range: 6 n 1 Data rate: 80 kB/s H: 1) A U1 (1)
Stop: 02.24 CI Range: 6.04 Data rate: 120 kB/s H: 17 A U1 14	rarger angle: 2/ // 2
Target:         12 C         Collimator:         4:3         Trigger evts:         D2:         F A X2 36           Target angle:         -118         Scaler evts:         K:         A U2 95	Scaler evis: 5440 K: A U2 95
rarger angle X: A UZ X: A UZ X:	
Lo some OPB error, della ose comay in	Run comment: K600 angle: 0 deg K600 field: C: 4 A VDC efficience
I gress the DAQ is going ok.	Start: 06:17 Current: 2-2 nA Trigger rate: 150 Hz D1: A A X1 93
	Stop: 176 44 CI Range: 61 Data rate: 60 kB/s H: 1 A U1 C14  Target: 143 Collimator: 43 Trigger evis: D2: 6 A X2 88
	Target angle :

```
111
 Run comment:____
                                            K600 angle: 0 deg K600 field:
                                                        Q:_____A VDC efficiency
 Run#: 3164
 Start: C6:50 Current: 2.6 nA Trigger rate: 47 Hz
                                                        D1: A X1 94
 Stop: 61:01 CI Range: 60A
                                 Data rate: ____kB/s
                                                        H: 1 A U1 44
                                                        D2: ___A X2 ___ 86
 Target: ______ Collimator: ______ Trigger evts:______
 Target angle : 1(R
                    7:00 the beam your on, SPCI flooded --
                     As die ppreen moet jy skeep
  Run comment: 12C data
                                                         Q: S A VDC efficiency
  Run #: 3165
                                                         D1: A A X1 93
  Start: 01:07 Current: 2.5 nA
                                  Trigger rate: 243 Hz
                                                         H: 1 A U1 45
   Stop: 78:00 CI Range: 614
                                  Data rate: 100 kB/s
                                  Trigger evts: 337991
                                                         D2: ____ A X2 86
  Target: 12C Collimator: #13
                                   Scaler evis: _ 3421
  Target angle : - 118
   Run comment: St # 4
                                               K600 angle: 0 deg K600 field:
                                                                 ___A VDC efficiency
   Run #: 3166
                                   Trigger rate: 175 Hz
   Start: OP OS Current: 2-6 nA
   Stop: 00 06 CI Range: GA
                                   Data rate: 72_kB/s
                                                                 __A X2 88
                                   Trigger evts: 458627
   Target: #4 Collimator: 43
                                   Scaler evis: 3527
                                                                    A U2 94
   Target angle : - [18
Run comment: #13 LTM 9
                                            K600 angle: 0 deg K600 field:_
 Run#: 3167
                                                            A VDC efficiency
 Start: 09:08 Current: 16 nA Trigger rate: 91 Hz
                                Data rate: 40 kB/s
 Stop: 09: 39 CI Range: 60A
                                Trigger evis: 21 0815
 Target: #3 Live Collimator: #3
                                 Scaler evis: 1776 .
 Target angle : ______
Run comment: EMPTY
                                           K600 angle: 0 deg K600 field:_
                                                      Q:_____A VDC efficiency
Run#: 3168
Start: 09:41 Current: 1:3 nA Trigger rate: 37 Hz
                                                      D1: ____A X1__
                               Data rate: 1,8 kB/s
Stop: 79:53 CI Range: 60A
                                         63490
Trigger evts:___
                                Scaler evts:____
                                           K600 angle; 0 deg K600 field:_
Run comment: DLC.
Run#: 3169
                              Trigger rate: 410 Hz
Start: 09:57 Current: 1.5 nA
                                Data rate: 163 kB/s
Stop: 10:58 CI Range: 60A
Target: #5 Collimator: #3
                                Trigger evts: 1.261M
                                Scaler evts: 3512
```

Checked on the pumps. Both still running. Vacuum around 2x10-5

Run #: 3170  Start: 12 1/4 02 Current: 2.6 nA  Stop: 12 02 CI Range: 6  Target: Si Collimator: #-3  Target angle: 1/8.0	Trigger rate: 184. Hz  Data rate: 82 kB/s  Trigger evis: 606 463  Scaler evis: 550	Control   Cont
Run comment: 24 Mg  Run #: 31 71  Start: 12 2 04 Current: 1 7 nA  Stop: 12 38 CI Range: 6 n A  Target: 4 4 4 3 Collimator: 4 3  Target angle: -118	Trigger rate: 146 Hz  Data rate: 61 kB/s  Trigger evis: 325438  Scaler evis: 1958	Q:A VDC efficiency D1:A X1
Run comment: M T  Run #: 3 172  Start: 12 L/H Current: 1.8 nA  Stop: 13 LO 2 CI Range: L  Target: MT Collimator: #3  Target angle: 118.0	Trigger rate: 84 Hz  Data rate: 35 kB/s  Trigger evts: 103454  Scaler evts: 1235	K600 field:
Run comment: S.O  Run #: 3173  Start: 13 ho7	Trigger rate: 2526 Hz  Data rate: 1.040 kB/s  Trigger evis: 1.0041M  Scaler evis: 383  1. Strang peak	C: A VDC efficiency  D1: A
Run comment: 12 (  Run #: 2174    Start: 1247   Current: 1.8 nA  Stop: 144   CI Range: 6  Target: 1245   Collimator: #2  Target angle: -118.0	Trigger rate: 20S Hz  Data rate: 35 kB/s  Trigger evts: 455 75 7  Scaler evts: 35 1/	deg K600 field:  Q:
Short interlock	trip in the 1	middle of this run



**Excitation** energy Offline andysis Ru 3150 354 3158 hEx **Entries** 952391 2500 Mean 17.49 Underflow Overflow 3162 Integral 9.524e+05 2000 3166 3170 1500 1000

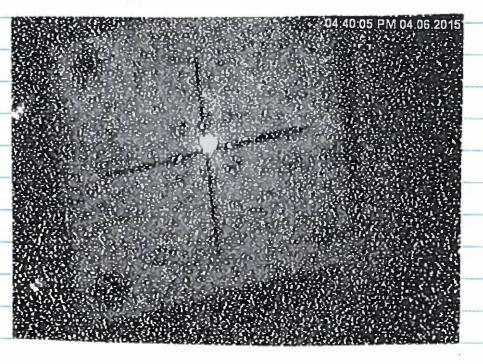
hundy (hange target (adder.

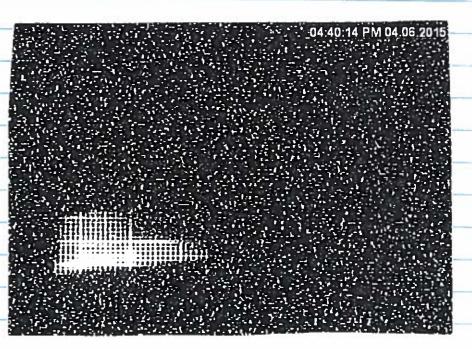


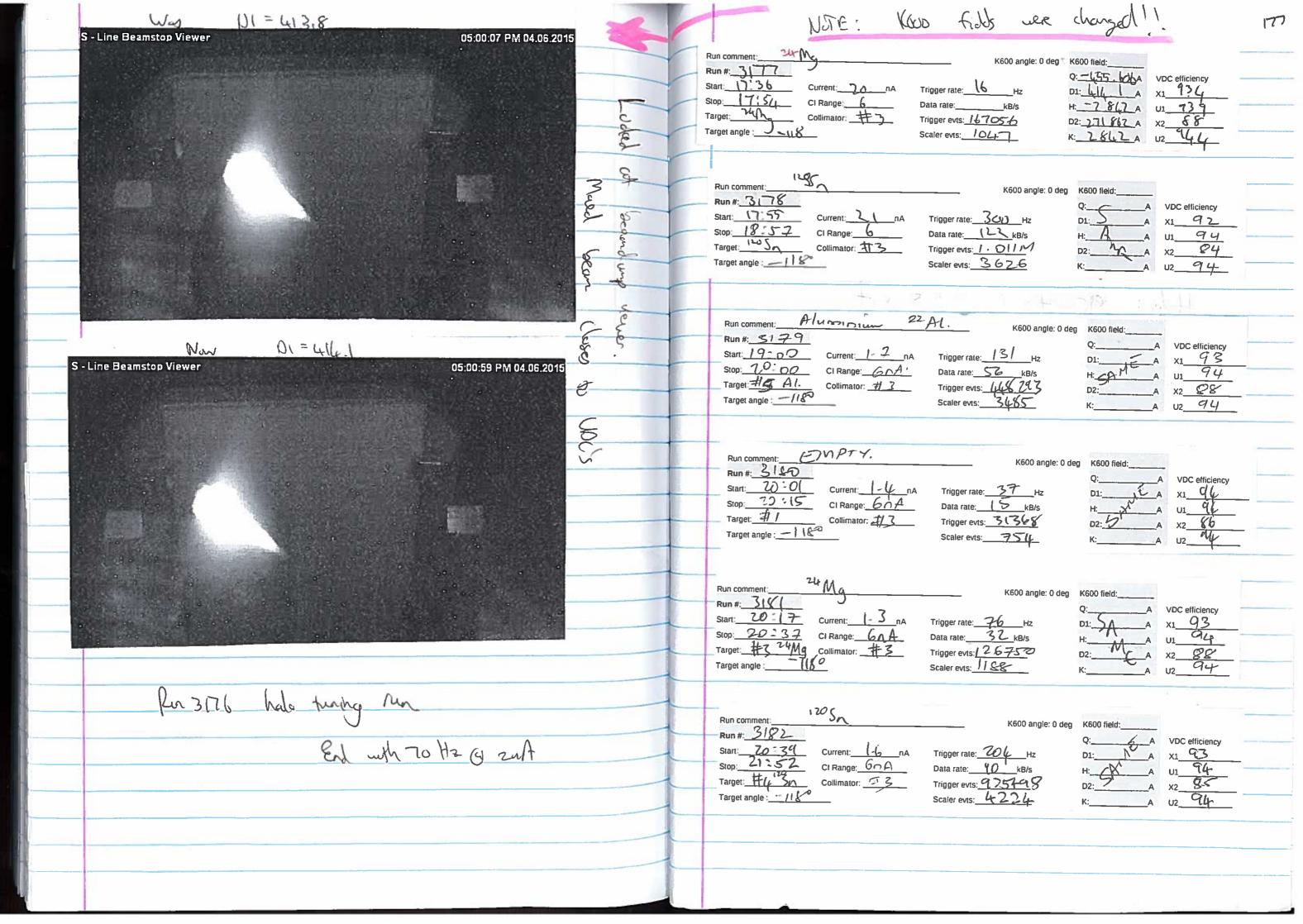
17:00

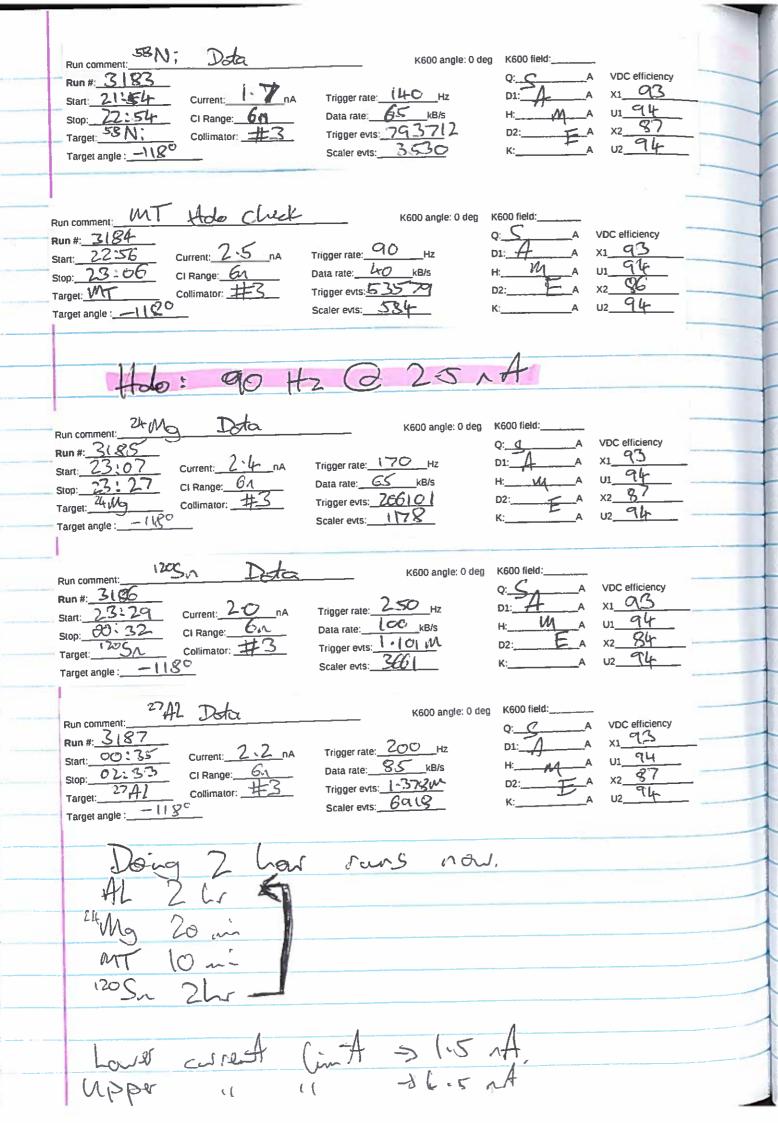
been an over right on get to left on Hatarake.

Change alignment.

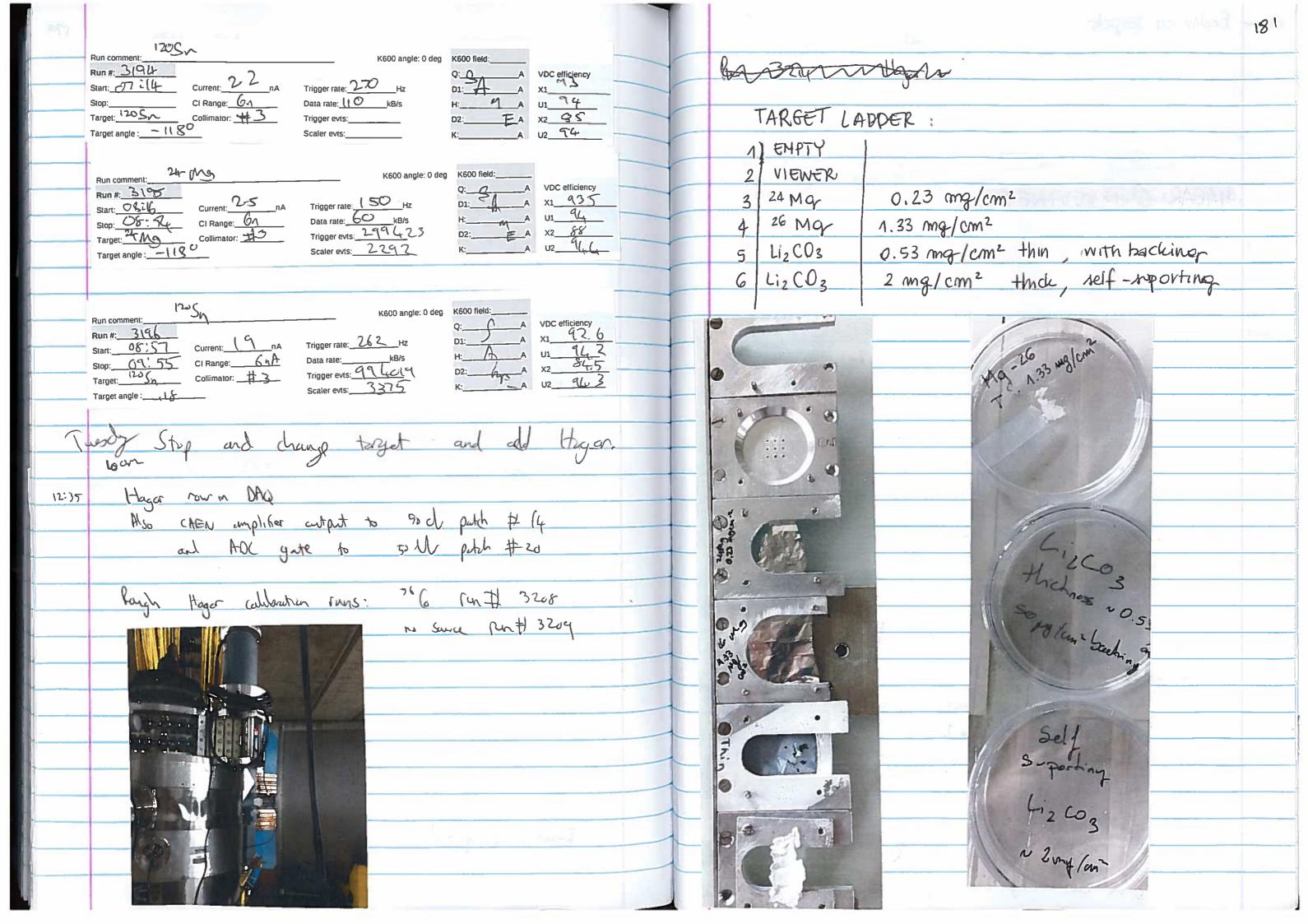








Run comment: 24 Mg
Run comment:    Run #: 3188
Start:
Run #: 3190  Start: 03:12
Run comment: 2+ Moy K600 angle: 0 deg K600 field:
Run #: 3 9
K600 angle: 0 deg   K600 field:
1205



## Giant Resonance Studies Perspectives

Muhsin N. Harakeh

KVI, Groningen & GANIL, Caen

Joliot-Curie School

La Colle Sur Loup, 12-17 September 2011

187 7 April 2015 Note on analysis lesolution. In offline analysis of ren 3195 I round
get - 60 keV resolution for a subsection of ThSDAT.

A let of effect should be put into analysis to ensure ue get bus possible resolution 2 Taget thickness With foint been on most waterds we looked at the DE loss in targets as well as effect on width of a beam the . These rus need carful analysis to understand energy resolution contribution by Straggling etc. Different tegels 58 Ni 80 St Liz (O3 and of things to analyze! PiD pad 1 vs top there are a couple of Each of these should be identified and gated on to see what the Spectrum lates like,