

/mdmno1/datal/argon/data6/runlog.txt

B(F4)*t
epa-s (10⁵)

Run	Date	Time	Duration	Beam	Source	Pressure	Temp	Notes
6232	Fri	May 10	11:26:23	87s	8h Cmc13 on top. Final gamma-NV Calibration.			
6233	Fri	May 10	21:25:58	320s	3885h 359.9 keV/u 21Na 5+ ; 7.8 T, first run			
6234	Fri	May 10	21:33:49	140 1372s	14824h 359.9 keV/u 21Na 5+ ; 7.8 T, first run			
6235	Fri	May 10	21:59:10	13213952s	123878h 360 keV/u 21Na 5+ ; 8 T, first run			"Good"
6236	Sat	May 11	01:58:25	110 6243s	51298h 360 keV/u 21Na 5+ ; 8.02 T, second run			Runs
6237	Sat	May 11	03:43:29	(05) 2824s	21896h 360 keV/u 21Na 5+ ; 7.99 T, Third run			
6238	Sat	May 11	04:37:01	(05) 10962s	38847h 360 keV/u 21Na 5+ ; 7.98 T, Fourth run			
6239	Sat	May 11	07:41:26	(00) 4966s	30641h 360 keV/u 21Na 5+ ; 7.89 T, Fifth run			
6240	Sat	May 11	10:56:47	85 6332s	40476h 360 keV/u 21Na 5+ ; 7.89 T, after proton therapy			
6241	Sat	May 11	14:05:20	751s	842h Bkgd. No Beam.			
6242	Sat	May 11	14:24:05	40s	37h Cmc13=6.13MeV gamma source at xyz=-3, -15, 5cm			
6243	Sat	May 11	14:24:49	19s	17h Cmc13=6.13MeV gamma source at xyz=-3, -15, 5cm			
6244	Sat	May 11	14:25:29	1185s	1273h Cmc13=6.13MeV gamma source at xyz=-3, -15, 5cm			
6245	Sat	May 11	15:54:47	1090s	1233h Bkgd.			
6246	Sat	May 11	19:04:00	(15) 3360s	27688h 21Na Ebeam=360keV/u, P=7.69T,			
6247	Sun	May 12	02:35:43	80 12454s	70264h 21Na Ebeam=360keV/u, P=7.77T,			
6248	Sun	May 12	06:08:10	(60) 9323s	52900h 21Na Ebeam=360keV/u, P=7.75T,			
6249	Sun	May 12	14:36:47	476s	1414h 21Na Ebeam=360keV/u, P=7.75T + 6.13MeV gamma source (74.7 = TOTAL * .14 = 10 events expected)			
6250	Sun	May 12	14:50:22	359s	3138h 21Na Ebeam=360keV/u, P=7.81T			
6251	Sun	May 12	17:56:54	8747s	5594h 21Na Ebeam=360keV/u, P=7.64			
6252	Sun	May 12	20:23:41	(200) 17948s	160312h 21Na Ebeam=360keV/u, P=7.55			
6253	Mon	May 13	01:27:19	(140) 25470s	256576h 21Na Ebeam=360keV/u, P=7.55			
6254	Mon	May 13	08:37:52	553s	0h 21Na Ebeam=360keV/u, P=7.55			

360 " is the
of same strength as 212

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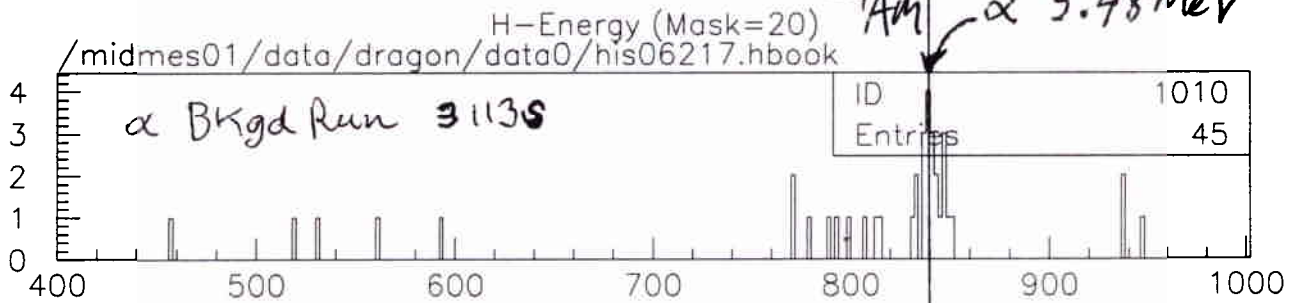
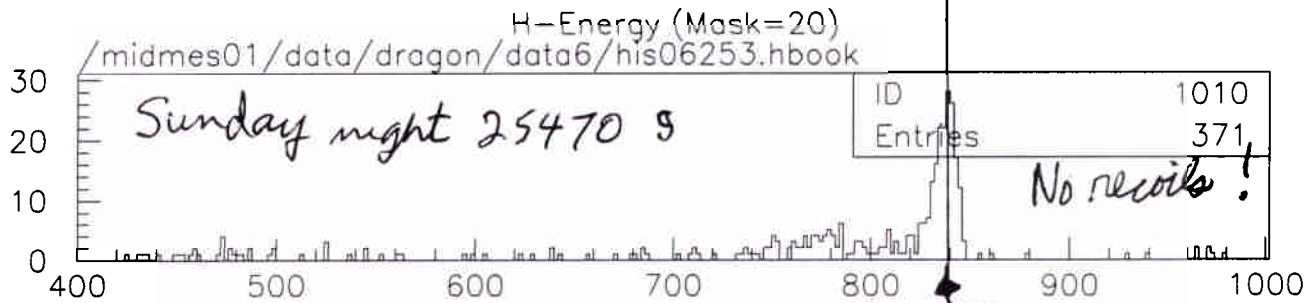
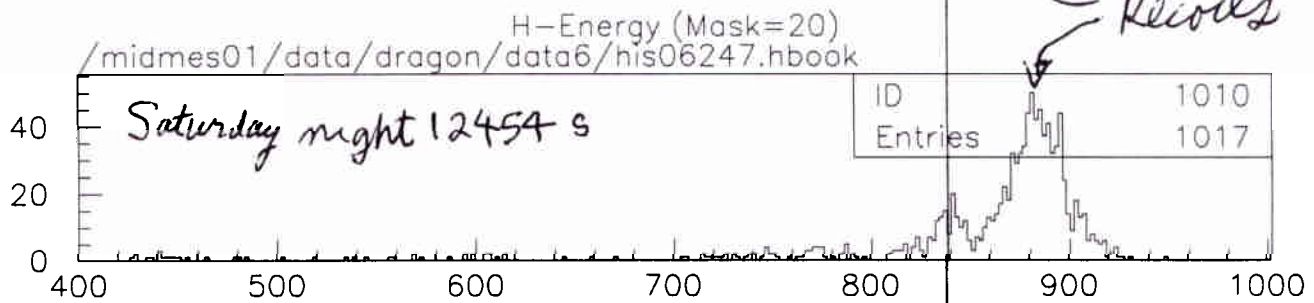
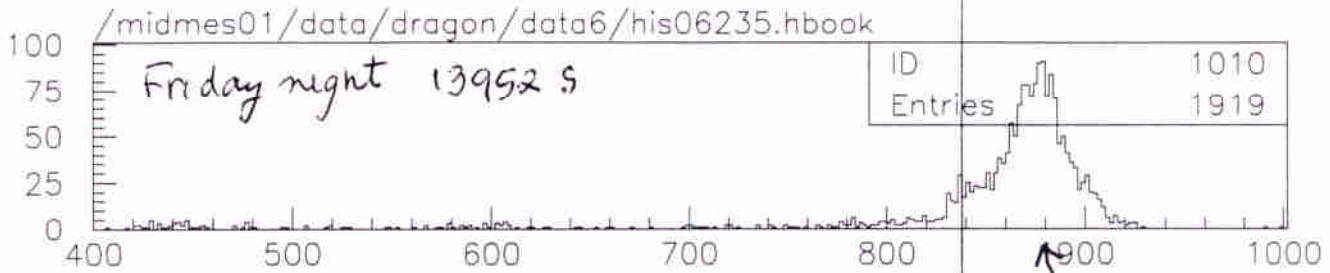
KEV, we expect 1 event per 200
A epa.h
= .14 x 10⁻⁵
(epa.s)⁻¹

" 360 " keV/u
Summary

Goel
14 May 02

360 KeV/μ ²¹Na(p,α)²²Mg Run Summary

2002/05/14 07:16



H-Energy (Mask=20)

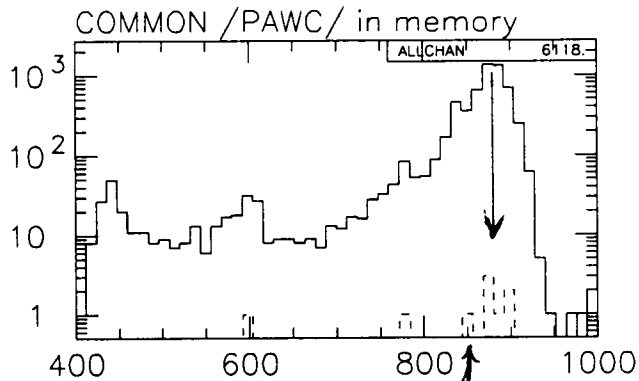
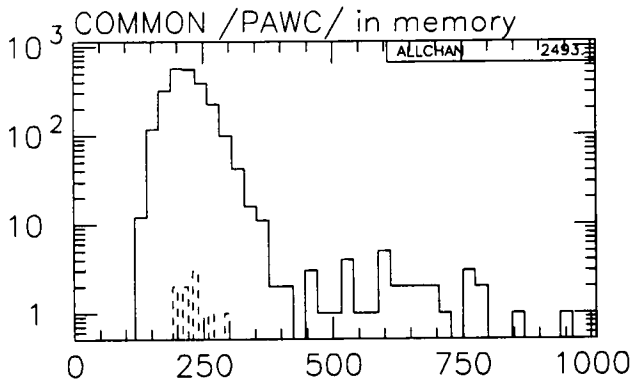
Total "Good" Data Beam = 10 (200epa·hours)

Joel
14 May 02

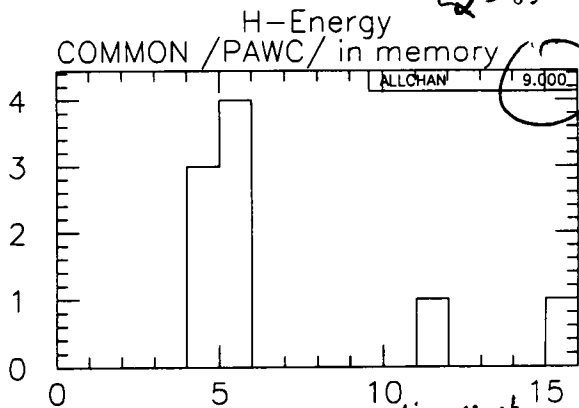
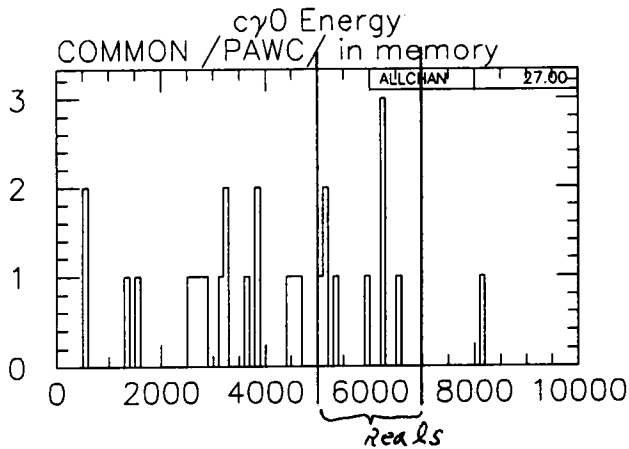
.. /data4-1/may14a.ps

2002/05/14 09.34

360 keV/u $^{21}\text{Na}(p,\gamma)^{22}\text{Mg}$ Summary of All Runs to Date

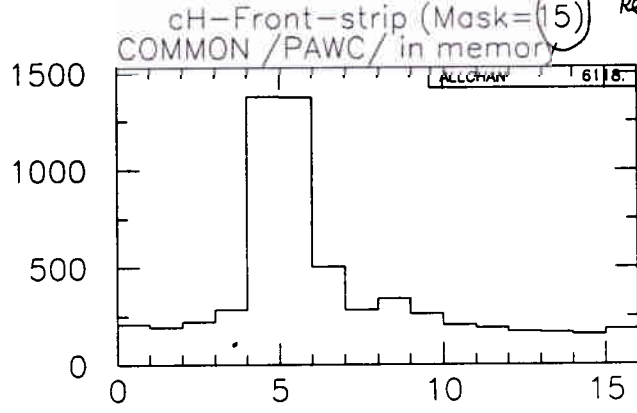
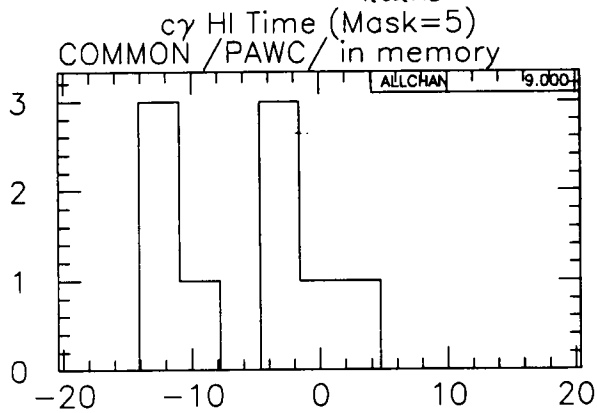


$E_x = 850$



Total
"Good?"
Events = 9

This mask selects Reads + ($E_x > 0$) + ($E_H > \text{ch480}$)

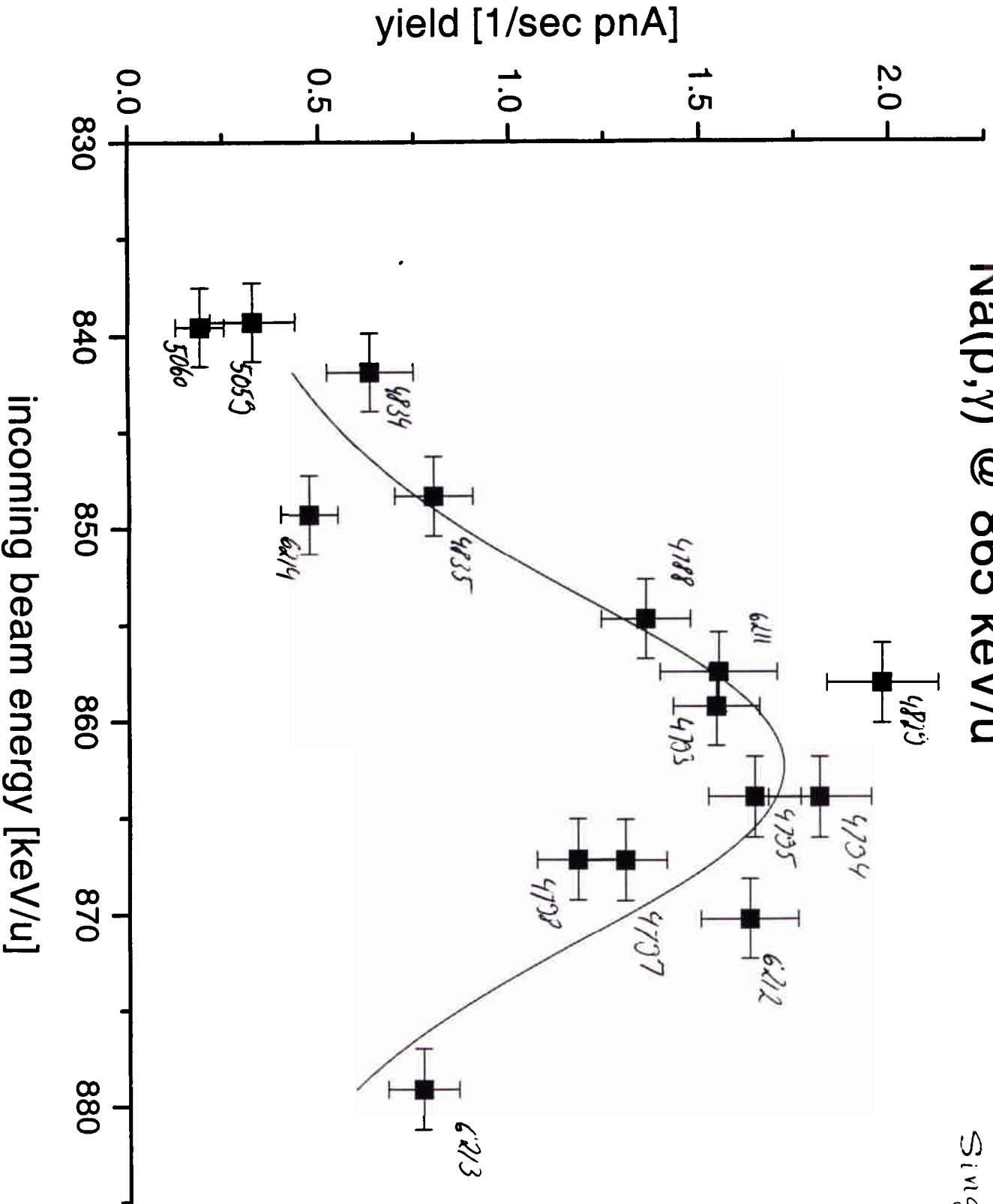


cy0 Z(cm) (Mask=15)

H-Front-strip (Mask=2)

may 14 d. ps

$^{21}\text{Na}(p,\gamma) @ 865 \text{ keV/u}$ Singles only



$$Y = w g / d E \cdot (1.65 E 7) \cdot P / (P \wedge 2 + 4 \cdot (E r) \wedge 2) \cdot ((8 \cdot E r / P \cdot \text{atan}(2 \cdot (x - E r) / P) + 4 \cdot \log(x) - 2 \cdot \log(P \wedge 2 + 4 \cdot (x - E r) \wedge 2)) - (8 \cdot E r / P \cdot \text{atan}(2 \cdot (x - d E - E r) / P) + 4 \cdot \log(x - d E) - 2 \cdot \log(P \wedge 2 + 4 \cdot (x - d E - E r) \wedge 2)))$$