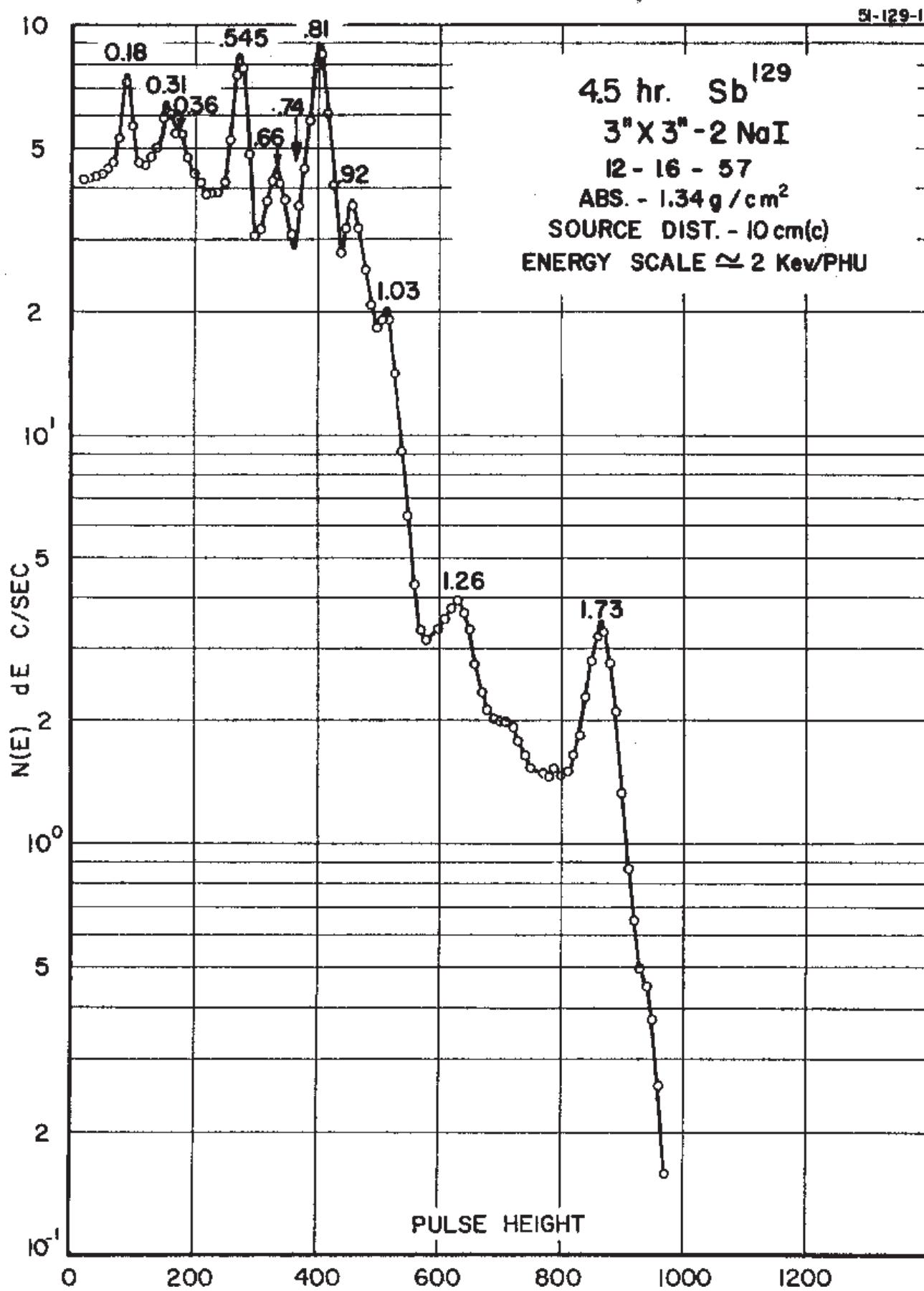
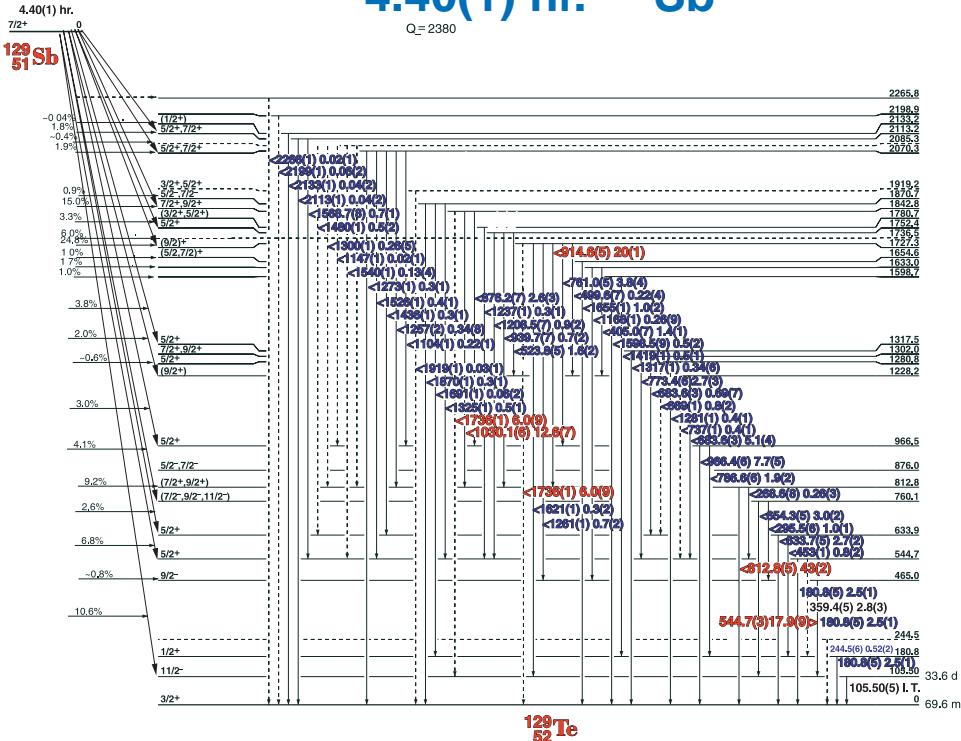


# 4.40(1) hr. $^{129}\text{Sb}$



# 4.40(1) hr. $^{129}\text{Sb}$



## GAMMA-RAY ENERGIES AND INTENSITIES

51-129-1

Nuclide  $^{129}\text{Sb}$   
Detector 3" X 3" NaI-2

Half Life 4.40(1) hr.  
Method of Production:  $^{235}\text{U}(\text{n},\text{f})$

$E_{\gamma}$ (KeV)[S]	$\Delta E_{\gamma}$	$I_{\gamma}$ (rel)	$I_{\gamma} (\%) [E]$	$\Delta I_{\gamma}$	S
96.1	$\pm 0.7$		0.17	$\pm 0.05$	
116.2	$\pm 0.7$		0.17	$\pm 0.05$	
146.6	$\pm 0.7$		0.21	$\pm 0.05$	
180.8	$\pm 0.5$		2.54	$\pm 0.15$	
232.1	$\pm 1.0$		0.301	$\pm 0.11$	
244.5	$\pm 0.6$		0.52	$\pm 0.9$	
268.6	$\pm 0.8$		0.26	$\pm 0.5$	
295.5	$\pm 0.6$		1.03	$\pm 0.9$	
313.5	$\pm 1.0$		0.84	$\pm 0.9$	
359.4	$\pm 0.5$		2.8	$\pm 0.3$	
363.0	$\pm 1.0$		0.430	10	
405.0	$\pm 0.7$		1.38	14	
453.5	$\pm 1.0$		0.77	22	
499.6	$\pm 0.7$		0.21	9	
523.8	$\pm 0.5$		1.59	14	
<b>544.7</b>	<b><math>\pm 0.3</math></b>		<b>17.9</b>	<b><math>\pm 1.0</math></b>	<b>1</b>
633.7	$\pm 0.5$		2.75	23	
654.3	5		3.01	23	
669.8	10		0.82	18	
683.6	3		5.1	4	
683.6	3		0.69	22	
737.1	10		0.39	9	
761.0	5		3.8	3	
773.4	6		2.75	23	
786.6	6		1.89	18	
<b>812.8</b>	<b>5</b>		<b>43.0</b>	<b><math>\pm 1.0</math></b>	<b>1</b>
876.2	7		2.58	23	
<b>914.6</b>	<b>5</b>		<b>20.0</b>	<b><math>\pm 1.2</math></b>	<b>1</b>
939.7	7		0.73	18.	
966.4	6		7.7	5	
995.4	11		0.13	9	
<b>1030.1</b>	<b>6</b>		<b>12.6</b>	<b><math>\pm 0.9</math></b>	<b>1</b>
1083.8	7		0.52	18	
1104.3	10		0.21	9	

$E_{\gamma}$ (KeV)[S]	$\Delta E_{\gamma}$	$I_{\gamma}$ (rel)	$I_{\gamma} (\%) [E]$	$\Delta I_{\gamma}$	S
1125.4	$\pm 1.0$			0.107	$\pm 0.022$
1139.2	$\pm 1.0$			0.17	$\pm 0.05$
1161.8	$\pm 1.0$			0.107	$\pm 0.022$
1167.8	$\pm 1.0$			0.26	$\pm 0.09$
1208.5	$\pm 0.7$			0.90	$\pm 0.13$
1223.3	10			0.17	5
1237.4	15			0.26	9
1257.0	18			0.34	18
1261.3	10			0.73	18
1273.0	15			0.26	13
1280.8	10			0.56	13
1300.0	12			0.26	9
1317.2	10			0.34	9
1325.9	10			0.52	9
1418.6	11			0.52	$\pm 0.9$
1436.1	12			0.30	13
1479.7	10			0.47	22
1525.9	10			0.43	13
1540.0	15			0.13	5
1568.7	$\pm 0.8$			0.69	9
1598.5	9			0.52	13
1621.1	12			0.26	13
1654.6	10			0.99	22
1724.1	20			0.26	13
<b>1736.5</b>	<b><math>\pm 1.0</math></b>		<b>6.0</b>	<b><math>\pm 0.8</math></b>	<b>1</b>
<b>1736.5</b>	<b><math>\pm 1.0</math></b>		<b>6.0</b>	<b><math>\pm 0.8</math></b>	<b>1</b>
1841.8	10			0.21	9
1869.9	11			0.30	9
2069.6	15			0.56	13
2071.6	10			0.43	$\pm 0.7$