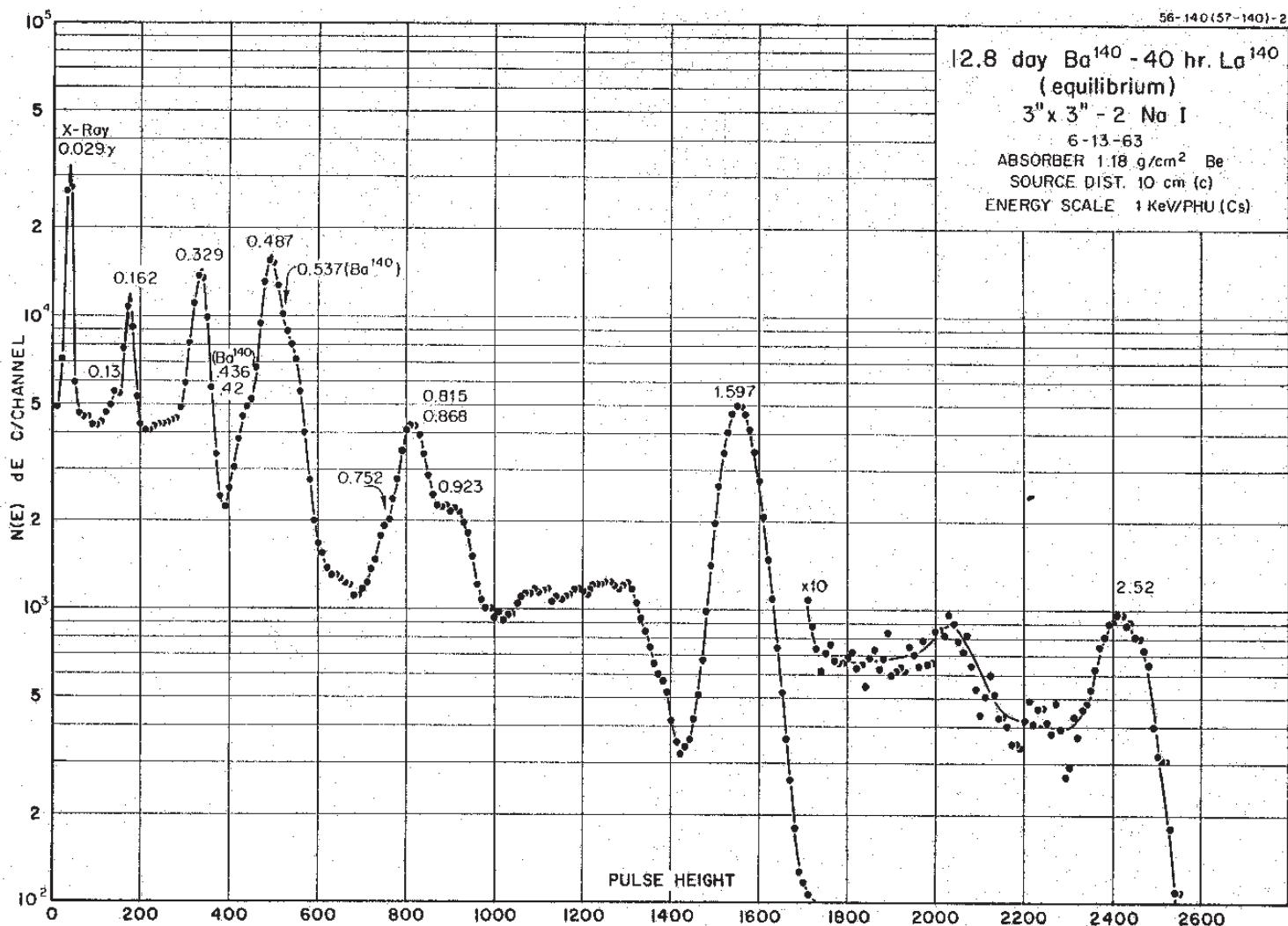
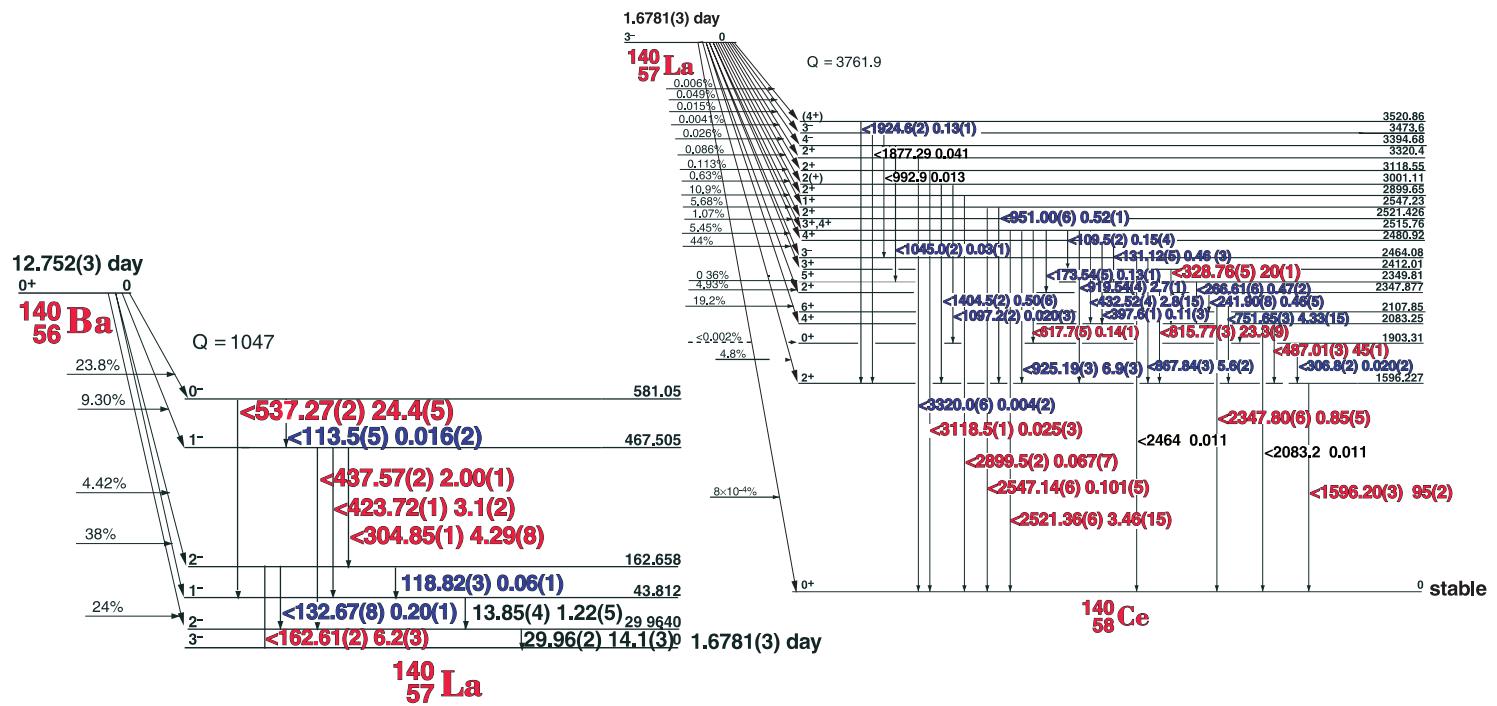


# 12.752(3) day $^{140}\text{Ba}$ - 1.6781(3) day $^{140}\text{La}$



Decay Data

← Index →

# 12.752(3) day $^{140}\text{Ba}$ - 1.6781(3) day $^{140}\text{La}$

## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide  $^{140}\text{Ba} - ^{140}\text{La}$   
 Detector 3" x 3" -2 Nal  
 Half Life 12.752(30 day - 1.6781(3) day  
 Method of Production:  $^{235}\text{U}(\text{n},\text{f})$

	$E_{\gamma}(\text{KeV})[\text{S}]$	$\Delta E_{\gamma}$	$I_{\gamma}(\text{rel})$	$I_{\gamma}(\%)[\text{E}]$	$\Delta I_{\gamma}$	S
$^{140}\text{Ba}$	109.47 $\pm$ 0.020	0.17	0.15	$\pm$ 0.04	4	
	131.15	$\pm$ 0.020	0.42	0.46	$\pm$ 0.03	4
	<b>162.53</b>	<b><math>\pm</math> 0.03</b>	<b>5.28</b>	<b>5.0</b>	<b><math>\pm</math> 0.15</b>	<b>2</b>
	173.5	$\pm$ 0.2	0.6	0.13	$\pm$ 0.01	4
	241.90	$\pm$ 0.08	0.51	0.46	$\pm$ 0.03	4
	266.61	$\pm$ 0.06	0.50	0.47	$\pm$ 0.02	4
	<b>304.89</b>	$\pm$ 0.05	4.1	3.9	$\pm$ 0.2	3
	<b>328.76</b>	<b><math>\pm</math> 0.05</b>	<b>19.6</b>	<b>20</b>	<b><math>\pm</math> 1.0</b>	<b>1</b>
	397.8	$\pm$ 0.1	0.12	0.11	$\pm$ 0.02	4
	<b>423.72</b>	$\pm$ 0.02	2.78	2.64	$\pm$ 0.10	3
$^{140}\text{Ba}$	432.52	$\pm$ 0.02	2.94	2.8	$\pm$ 0.10	3
	<b>437.58</b>	$\pm$ 0.03	1.75	1.7	$\pm$ 0.10	3
	<b>487.009</b>	<b><math>\pm</math> 0.030</b>	<b>44.7</b>	<b>45</b>	<b><math>\pm</math> 1.0</b>	<b>1</b>
	Ann.	511.006	0.2		$\pm$ 0.05	4
$^{140}\text{Ba}$	<b>537.29</b>	<b><math>\pm</math> 0.03</b>	<b>21.50</b>	<b>20.5</b>	<b><math>\pm</math> 1.0</b>	<b>1</b>
DE	574.3	$\pm$ 0.1				3
	<b>751.655</b>	<b><math>\pm</math> 0.035</b>	<b>4.5</b>	<b>4.33</b>	<b><math>\pm</math> 0.1</b>	<b>2</b>
	<b>815.775</b>	<b><math>\pm</math> 0.030</b>	<b>24.2</b>	<b>23.3</b>	<b><math>\pm</math> 1.5</b>	<b>1</b>
	<b>867.842</b>	<b><math>\pm</math> 0.035</b>	<b>5.7</b>	<b>5.6</b>	<b><math>\pm</math> 0.2</b>	<b>2</b>
	919.54	$\pm$ 0.04	2.89	2.7	$\pm$ 0.10	3
	<b>925.188</b>	<b><math>\pm</math> 0.035</b>	<b>7.2</b>	<b>6.9</b>	<b><math>\pm</math> 0.3</b>	<b>1</b>
	951.00	$\pm$ 0.06	0.56	0.52	$\pm$ 0.01	4
	1085.2	$\pm$ 0.1				3
	1499.5	$\pm$ 0.1				3
	<b>1596.17</b>	<b><math>\pm</math> 0.06</b>	<b>100</b>	<b>95</b>	<b><math>\pm</math> 2.0</b>	<b>1</b>
SE	1836.7	$\pm$ 0.1				4
	1877.3	$\pm$ 0.2	0.05	0.04	$\pm$ 0.01	4
	1924.2	$\pm$ 0.3	0.023	0.13	$\pm$ 0.01	4
	<b>2347.80</b>	<b><math>\pm</math> 0.06</b>	<b>0.89</b>	<b>0.85</b>	<b><math>\pm</math> 0.05</b>	<b>1</b>
	<b>2521.32</b>	<b><math>\pm</math> 0.06</b>	<b>3.59</b>	<b>3.46</b>	<b><math>\pm</math> 0.10</b>	<b>1</b>
	<b>2547.14</b>	<b><math>\pm</math> 0.06</b>	<b>0.110</b>	<b>0.101</b>	<b><math>\pm</math> 0.006</b>	<b>2</b>
	<b>2899.5</b>	<b><math>\pm</math> 0.2</b>	<b>0.073</b>	<b>0.067</b>	<b><math>\pm</math> 0.007</b>	<b>1</b>
	<b>3118.52</b>	<b><math>\pm</math> 0.15</b>	<b>0.028</b>	<b>0.025</b>	<b><math>\pm</math> 0.003</b>	<b>1</b>
	3320.0	$\pm$ 0.6	0.005	0.004	$\pm$ 0.001	3