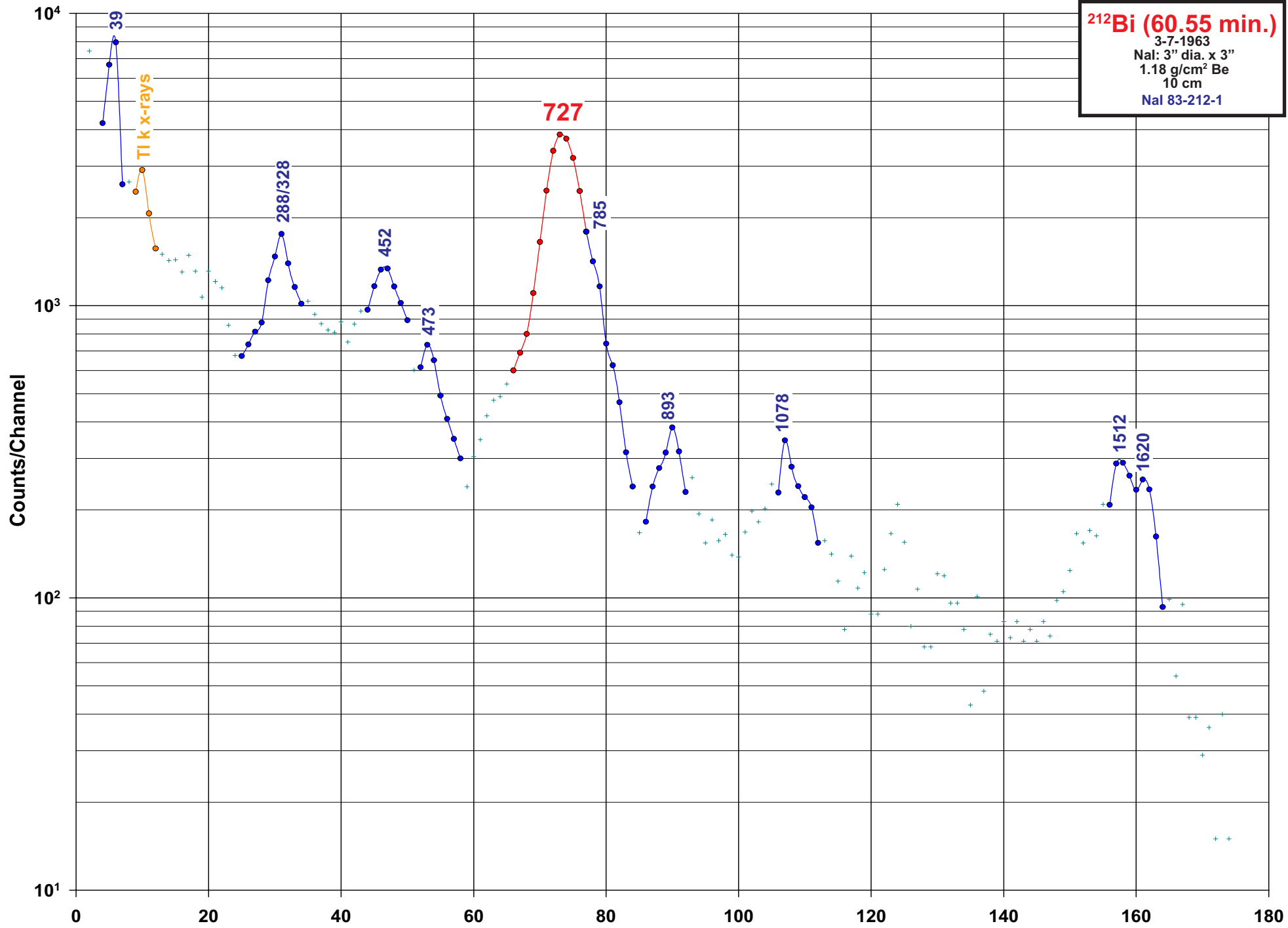
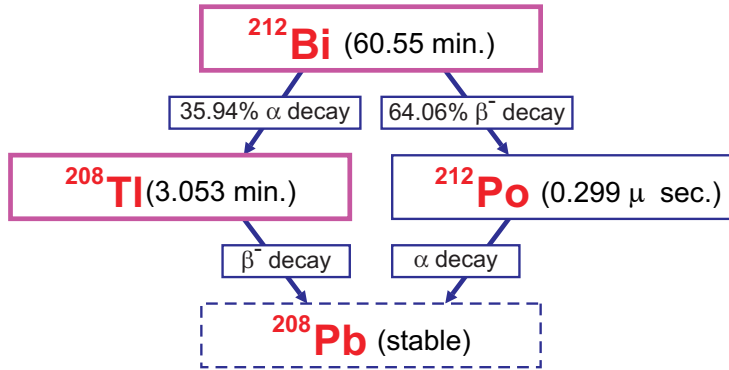


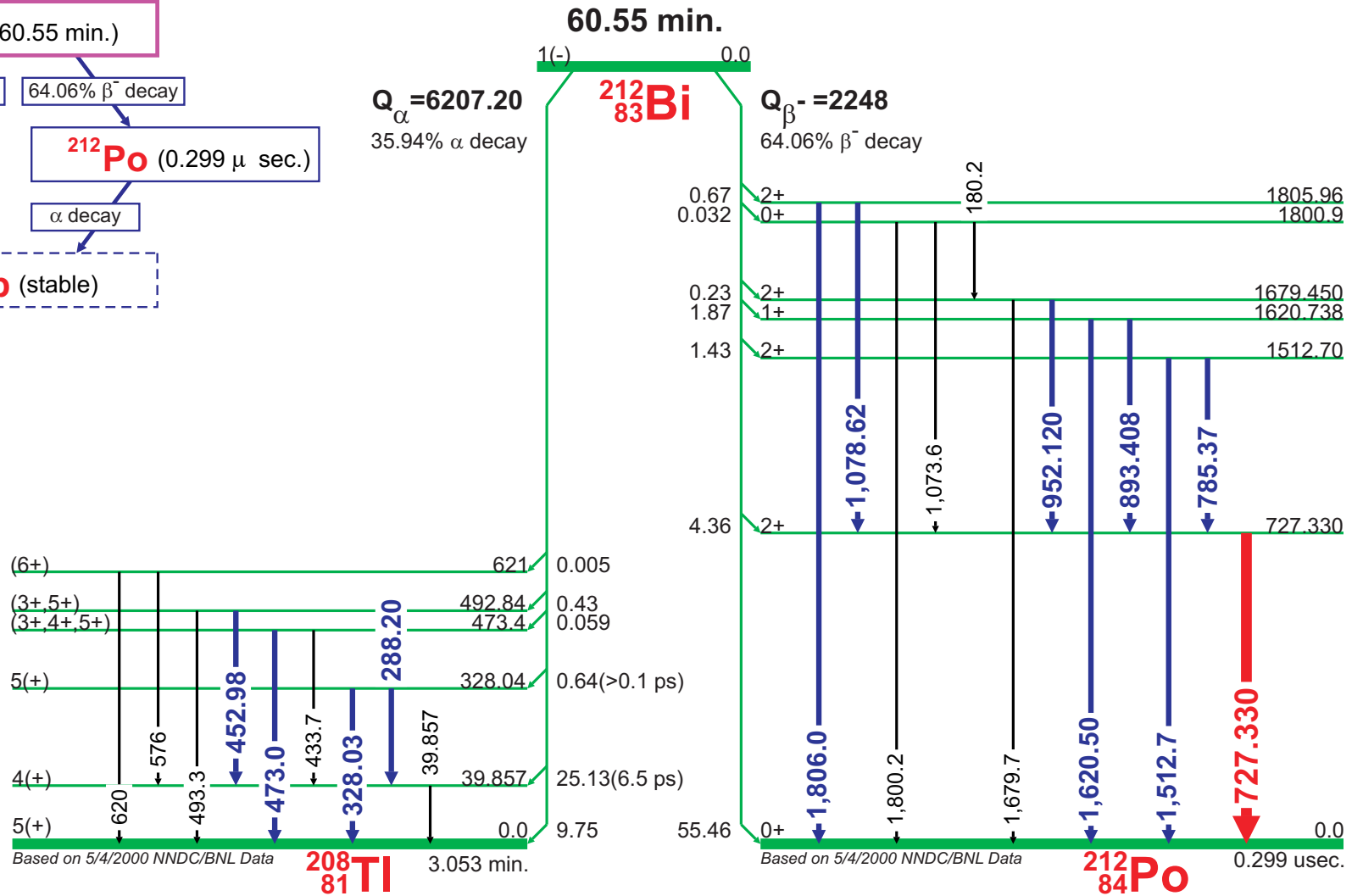
**<sup>212</sup>Bi (60.55 min.)**  
3-7-1963  
NaI: 3" dia. x 3"  
1.18 g/cm<sup>2</sup> Be  
10 cm  
NaI 83-212-1



## <sup>212</sup>Bi Decay Chain



## <sup>212</sup>Bi (60.55 min.) Decay Scheme



## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide:  **$^{212}\text{Bi}$** 

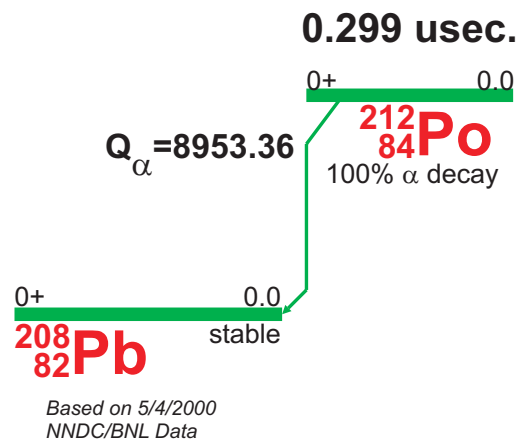
Half Life: 60.55(6)

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ | $\sigma I_\gamma$ | Level     |           |
|------------------|-------------------|------------|-------------------|-----------|-----------|
| 39.857           | 0.004             | 1.06       | 0.09              | 39.857    | $\alpha$  |
| 124.1            |                   |            |                   |           | $\alpha$  |
| 130              |                   |            |                   |           | $\beta^-$ |
| 144.94           |                   |            |                   |           | $\alpha$  |
| 180.2            |                   | 0.003      | 0.001             | 1,800.9   | $\beta^-$ |
| 288.20           | 0.04              | 0.336      | 0.003             | 328.04    | $\alpha$  |
| 328.03           | 0.04              | 0.125      | 0.006             | 328.04    | $\alpha$  |
| 433.7            | 0.5               | 0.017      | 0.003             | 473.4     | $\alpha$  |
| 452.98           | 0.05              | 0.363      | 0.003             | 492.84    | $\alpha$  |
| 473.0            | 0.7               | 0.050      | 0.0003            | 473.4     | $\alpha$  |
| 493.3            | 0.7               | 0.004      | <                 | 492.84    | $\alpha$  |
| 576              |                   |            |                   | 621       | $\alpha$  |
| 620              |                   |            |                   | 621       | $\alpha$  |
| 727.330          | 0.009             | 6.58       | 0.05              | 727.330   | $\beta^-$ |
| 785.37           | 0.08              | 1.10       | 0.01              | 1,512.70  | $\beta^-$ |
| 893.408          | 0.005             | 0.38       | 0.02              | 1,620.738 | $\beta^-$ |
| 952.120          | 0.011             | 0.17       | 0.03              | 1,679.450 | $\beta^-$ |
| 1,073.6          | 0.2               | 0.016      | 0.002             | 1,800.9   | $\beta^-$ |
| 1,078.62         | 0.10              | 0.56       | 0.02              | 1,805.96  | $\beta^-$ |
| 1,512.7          | 0.3               | 0.29       | 0.04              | 1,512.70  | $\beta^-$ |
| 1,620.50         | 0.10              | 1.49       | 0.03              | 1,620.738 | $\beta^-$ |
| 1,679.7          | 0.5               | 0.06       | 0.01              | 1,679.450 | $\beta^-$ |
| 1,800.2          |                   |            |                   | 1,800.9   | $\beta^-$ |
| 1,806.0          | 0.5               | 0.09       | 0.02              | 1,805.96  | $\beta^-$ |

 $E_\gamma$ ,  $\sigma E_\gamma$ ,  $I_\gamma$ ,  $\sigma I_\gamma$ , Levels from ENSDF Database as of May 4, 2000① These  $I_\gamma$  are per 100 Decays of  $^{212}\text{Bi}$ .

② Normalization factor is 1.0, and its uncertainty is taken to be 0.0.

## $^{212}\text{Po}$ (0.299 usec.) Decay Scheme



## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide:  **$^{212}\text{Po}$** 

Half Life: 0.299(2) usec.

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ | $\sigma I_\gamma$ | Level |          |
|------------------|-------------------|------------|-------------------|-------|----------|
| No gamma's       |                   |            |                   |       | $\alpha$ |

 $E_\gamma$ ,  $\sigma E_\gamma$ ,  $I_\gamma$ ,  $\sigma I_\gamma$ , Levels from ENSDF Database as of April 26, 2000