^{209}Bi(π^-,3nγ) 1978Be24

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 201,346 (2025)	21-Jan-2025

1978Be24: Experiment performed at the Synchro-cyclotron facility at CERN using 125 MeV pion beams. Target: 1.22 g/cm^2 Bi powder target. Detectors: 2 Ge(Li). Measured: Eγ, Iγ.

^{206}Pb Levels

E(level)†	J$^\pi$‡
0.0	0^+
803.3	2^+
1340.8	3^+
1684.3	4^+
2200.2	7^-
2658.3	9^-
3957.4	10^+

† From reported γ-ray energies in 1978Be24.
‡ From Adopted Levels.

γ(^{206}Pb)

E$_\gamma$†	I$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
343.5	2.2 *5*	1684.3	4^+	1340.8	3^+
458.1	≤3.5	2658.3	9^-	2200.2	7^-
537.5	2.6 *3*	1340.8	3^+	803.3	2^+
803.3	3.8 *8*	803.3	2^+	0.0	0^+
881.0	1.7 *8*	1684.3	4^+	803.3	2^+
1299.1	1.5 *8*	3957.4	10^+	2658.3	9^-

† From 1978Be24. Iγ are per 100 stopped π^-.

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Level Scheme

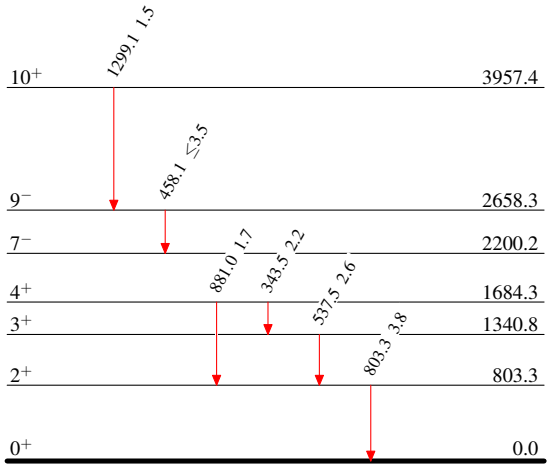
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{206}_{82}Pb_{124}$