

²⁰⁷Pb(t,α) **1970Ba07**

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

1970Ba07: E(t)=20 MeV; Detectors: α measured in magnetic spectrograph and counter telescope with FWHM≈45 keV; Measured: angular distributions.
²⁰⁷Pb target has J^π=1/2⁻.

²⁰⁶Tl Levels

E(level) [†]	J ^π [†]	L [†]	E(level) [†]	J ^π [†]	L [†]	E(level) [†]	J ^π [†]	L [†]
0	0 ⁻	0	1345 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2	2128 [‡] <i>10</i>	5 ⁺ ,6 ⁺	5
273 <i>10</i>	2 ⁻	2	1409 <i>10</i>	5 ⁺ ,6 ⁺	5	2264 <i>10</i>	5 ⁺ ,6 ⁺	5
303 <i>10</i>	1 ⁻	0	1485 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2	2464 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2
647 <i>10</i>	1 ⁻	2	1653 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2	2506 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2
806 <i>10</i>	3 ⁻	2	1717 <i>10</i>	6 ⁺ ,5 ⁺	5	2717 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2
1002 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2	1852 <i>10</i>	2 ⁻ ,1 ⁻ ,3 ⁻	2	2813 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2
1121 <i>10</i>	1 ⁻ ,2 ⁻ ,3 ⁻	2	1985 <i>10</i>	5 ⁺ ,6 ⁺	5	3022 <i>10</i>		
1257? <i>10</i>		(0,5)	2061 [‡] <i>10</i>	3 ⁻ ,1 ⁻ ,2 ⁻	2	3865 <i>10</i>	(3 ⁻ ,4 ⁻)	(4)

[†] From **1970Ba07**. ΔE assigned by evaluators from general statement of **1970Ba07**.

[‡] Possible doublet (**1970Ba07**).