

$^{206}\text{Pb}(^3\text{He},\alpha)$ 1980Gu03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

1980Gu03: E(^3He)=101.7 MeV; Target: ^{206}Pb , enriched up to 97.39%, with impurities of ^{207}Pb (0.69%) and ^{208}Pb (1.92%);

Detectors: magnetic spectrometer with FWHM=100 keV, multi-wire proportional chamber, ionization chamber with a 10 cm active depth, 3 mm plastic scintillator coupled to a xp 1021 photomultiplier; Measured: $\sigma(E(\alpha),\theta)$; Deduced: E, L, J^π , C^2S .

 ^{205}Pb Levels

E(level) [†]	J^π [†]	C^2S [†]	E(level) [†]	J^π [†]	C^2S [†]	E(level) [†]	C^2S [†]	E(level) [†]	C^2S [†]
0	5/2 ⁻	5.2	2903	9/2 ⁻	1.20	4310		6450	
262	3/2 ⁻		3220			4570	1.2	6900	0.85
1011	13/2 ⁺	8.35	3330			4790		7200	
1042	7/2 ⁻	(0.45)	3430			5250		7500	
1615	7/2 ⁻	0.90	3630		0.57	(5400)		7800	2.05
1762	7/2 ⁻	5.05	3960		0.46	5760			
2692	9/2 ⁻	3.65	4160			6200			

[†] From 1980Gu03.