²¹⁰**Pb**(\mathbf{t} , α) **1976El07**

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Full Evaluation J. Chen # and F. G. Kondev NDS 126, 373 (2015) 30-Sep-2013

1976E107: E=20 MeV triton beam was produced from the Los Alamos three-stage tandem accelerator. A target of 240 μ g/cm² 210 Pb metal on a 50 μ g/cm² carbon backing was used. Reaction products were momentum analyzed with a broad-range magnetic spectrometer and recorded on photographic plates, θ =42°, FWHM≈40 keV (estimated by the evaluators from the authors' spectrum). Measured σ (E $_{\alpha}$, θ). Deduced levels.

Target $J^{\pi}(^{210}\text{Pb g.s.})=0^{+}$.

²⁰⁹Tl Levels

E(level)	\mathbf{J}^{π}	L^{\dagger}	Comments
0.0	1/2+	(0)	configuration: $\pi(s_{1/2})^{-1}$.
325 10	$3/2^{+}$	(2)	configuration: $\pi(d_{3/2})^{-1}$.
739 10			. 7-
947 10			
1230 <i>10</i>			
1369 10	$(11/2^{-})$	(5)	configuration: $\pi(h_{11/2})^{-1}$.
1748 <i>10</i>	$(5/2^+)$	(2)	configuration: $\pi(d_{5/2})^{-1}$.

[†] Not measured directly in 1976El07, but inferred from $L(t,\alpha)$ for analogous levels (g.s., 350 keV 6, 1341 keV 6 and 1674 keV 6) in 207 Tl (1970Ba07).