

$^{208}\text{Pb}(^{18}\text{O},\text{F}\gamma)$ 2004Pr10

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 124, 1 (2015)	30-Nov-2014

^{86}Kr produced as a fission fragment in the $^{18}\text{O}+^{208}\text{Pb}$ reaction at 85 MeV. Measured E_γ , I_γ , $\gamma\gamma$ -coincidences using the Euroball IV gamma array containing 71 Compton-suppressed Ge detectors.

 ^{86}Kr Levels

<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>E(level)[†]</u>	<u>J^π[‡]</u>
0.0	0 ⁺	3935.2 16	5 ⁽⁻⁾	4755.1 17	7 ⁺	6084.0 18	(9 ⁻)
1565.0 10	2 ⁺	4063.8 16	6 ⁺	5659.6 17	8 ⁺	6246.8 21	10
2250.0 15	4 ⁺	4430.3 17	6 ⁽⁻⁾	5668.7 18	8 ⁽⁻⁾		
3816.0 16	5 ⁺	4692.4 17	7 ⁽⁻⁾	5813.8 18	9 ⁺		

[†] from least-squares fit of E_γ values.

[‡] based on the values proposed by 1993Wi10, from $\gamma(\theta)$ data. The authors of 2004Pr10 confirmed several of these values using $\gamma\gamma$ angular correlations.

 $\gamma(^{86}\text{Kr})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
154 1	5813.8	9 ⁺	5659.6	8 ⁺	757 1	4692.4	7 ⁽⁻⁾	3935.2	5 ⁽⁻⁾
248 1	4063.8	6 ⁺	3816.0	5 ⁺	904 1	5659.6	8 ⁺	4755.1	7 ⁺
262 1	4692.4	7 ⁽⁻⁾	4430.3	6 ⁽⁻⁾	967 1	5659.6	8 ⁺	4692.4	7 ⁽⁻⁾
325 1	4755.1	7 ⁺	4430.3	6 ⁽⁻⁾	1059 1	5813.8	9 ⁺	4755.1	7 ⁺
415 1	6084.0	(9 ⁻)	5668.7	8 ⁽⁻⁾	1238 1	5668.7	8 ⁽⁻⁾	4430.3	6 ⁽⁻⁾
433 1	6246.8	10	5813.8	9 ⁺	1392 1	6084.0	(9 ⁻)	4692.4	7 ⁽⁻⁾
495 1	4430.3	6 ⁽⁻⁾	3935.2	5 ⁽⁻⁾	1565 1	1565.0	2 ⁺	0.0	0 ⁺
614 1	4430.3	6 ⁽⁻⁾	3816.0	5 ⁺	1566 1	3816.0	5 ⁺	2250.0	4 ⁺
629 1	4692.4	7 ⁽⁻⁾	4063.8	6 ⁺	1596 1	5659.6	8 ⁺	4063.8	6 ⁺
685 1	2250.0	4 ⁺	1565.0	2 ⁺	1685 1	3935.2	5 ⁽⁻⁾	2250.0	4 ⁺
691 1	4755.1	7 ⁺	4063.8	6 ⁺	1814 1	4063.8	6 ⁺	2250.0	4 ⁺

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Level Scheme

