⁹⁶**Ru**(⁷⁸**Kr,p2n**γ) **2003Bb21**

History								
Туре	Author	Citation	Literature Cutoff Date					
Full Evaluation	Coral M. Baglin, E. A. Mccutchan	NDS 151, 334 (2018)	30-Jun-2018					

2003Bb21: 370 MeV ⁷⁸Kr beam degraded to 363 MeV mid target; recoils implanted In 16 position-sensitive Si strip detectors At focal plane of RITU recoil separator; JUROSPHERE Ge detector array (15 EUROGAM-1 type detectors, 5 TESSA type detectors and 5 NORDBALL type detectors); recoil-decay tagging technique; multiwire proportional avalanche counter to discriminate recoils and scattered beam; Si detector behind strip detector to veto energetic P or α punching through strip detector; Ge detector behind focal plane for detection of γ and x from daughter products; measured recoil-correlated α and p spectra during the 8 ms following recoil implant; measured E γ , I γ , T_{1/2}, γ - α and γ -P correlations.

¹⁷¹Au Levels

Proposed level scheme is tentative as low statistics prohibited analysis of $\gamma\gamma$ coincidences. Transitions are placed by assuming the two most intense transitions observed are in cascade feeding the $11/2^-$ isomer.

E(level)	$J^{\pi^{\dagger}}$	T _{1/2}	Comments
0.0	$(1/2^+)$		
259 <i>13</i>	$(11/2^{-})$	1.014 ms <i>19</i>	E(level): From the Adopted Levels.
			$T_{1/2}$: from combined p(t) and α (t) (2003Bb21).
870 <i>13</i>			
1804 14			

[†] From the Adopted Levels.

$\gamma(^{171}\mathrm{Au})$

Eγ	I_{γ}^{\dagger}	E _i (level)	\mathbf{E}_{f}	\mathbf{J}_f^{π}
611 3	30 7	870	259	$(11/2^{-})$
^x 626 6	94			
^x 691 8	73			
^x 706 5	94			
^x 827 5	12 4			
954 5	15 5	1804	870	

[†] Intensity measured in coincidence with both proton and alpha decays. 2003Bb21 also provide intensities in coincidence with protons and alphas individually.

 $x \gamma$ ray not placed in level scheme.

