

**<sup>100</sup>Mo(<sup>36</sup>S,4nγ):SD 2005Pa30,1995Sa21,1996C103**

Type	Author	History Citation	Literature Cutoff Date
Update	Balraj Singh		03-Aug-2005

**Additional information 1.**

Includes <sup>116</sup>Cd(<sup>22</sup>Ne,6nγ), <sup>112</sup>Cd(<sup>26</sup>Mg,α2nγ), <sup>110</sup>Pd(<sup>26</sup>Mg,4nγ), <sup>64</sup>Ni(<sup>74</sup>Ge,α2nγ) reactions.

**2005Pa30:** E=160, 165 MeV. Measured Eγ, Iγ, γγ, γγ(θ) of SD band transitions using EUROBALL IV spectrometer consisting of 15 seven-crystal 'Clusters', 30 single-crystal tapered detectors, and 26 four-crystal 'Clovers'. Each of the three sets of detectors with inner-ball sections of a total of 181 BGO detectors. Deduced three SD bands.

**1995Sa21** (also **1996Se04**): E=155 MeV. Measured Eγ, γγ using EUROGAM array; deduced excited SD bands. Precise gamma-ray energies for SD-1 band given by **1996Se04** from a re-analysis of data.

**1996C103:** E=155 MeV. Measured lifetimes by Doppler-shift attenuation method; γ(θ), γγ. Deduced quadrupole moments.

**1987Ki02, 1987WA18** (also **1988NoZY, 1985No02**): E=150 MeV. Measured Eγ, Iγ, lifetimes by DSAM; deduced SD bands, feeding pattern. 12 transitions in SD-1 band reported by **1985No02**.

**1995Ha28:** <sup>116</sup>Cd(<sup>22</sup>Ne,6nγ) E=120 MeV. measured γγ, lifetimes by DSAM, centroid shifts; deduced quadrupole moment of yrast SD band.

**Others:**

**1998Fa07:** E=155 MeV. Measured Eγ, Iγ, γγ, γγ(θ); deduced SD band quasicontinuum, rotational damping using EUROGAM array of 54 Ge detectors.

**1998Wi13:** E=135-170 MEV. Measured Eγ, Iγ, γγ; deduced SD-1 band feeding pattern vs entrance channel spin and energy using 8π array of 20 Ge detectors and 70 BGO inner-ball detectors.

**1997Ni04:** <sup>112</sup>Cd(<sup>26</sup>Mg,α2nγ) E=94 MeV and <sup>64</sup>Ni(<sup>74</sup>Ge,α2nγ) E=239 MeV. Measured relative population of SD bands.

**1994WaZV:** <sup>110</sup>Pd(<sup>26</sup>Mg,4nγ) E=130 MeV. Measured DSAM, Q.

<sup>132</sup>Ce Levels

E(level)	J <sup>π</sup>	T <sub>1/2</sub> <sup>‡</sup>	Comments
y <sup>†#</sup>	J≈(20 <sup>+</sup> )		J <sup>π</sup> : from <b>2005Pa30</b> . Other: ≈(18) from <b>1987Ki02</b> for level fed by 809γ. E(level): y>4950 ( <b>1987Ki02</b> ).
770.80+y <sup>†#</sup> 10	J+2		J <sup>π</sup> : decay of this level predominantly feeds yrast 18 <sup>+</sup> state In normal deformed band.
1580.10+y <sup>#</sup> 15	J+4	59 fs 20	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =301 fs 35 ( <b>1987Ki02</b> ).
2445.81+y <sup>#</sup> 18	J+6	62 fs 14	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =193 fs 9 ( <b>1987Ki02</b> ).
3375.41+y <sup>#</sup> 20	J+8	28 fs 12	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =118 fs 11 ( <b>1987Ki02</b> ).
4371.31+y <sup>#</sup> 23	J+10	<17 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =87 fs 11 ( <b>1987Ki02</b> ).
5433.02+y <sup>#</sup> 25	J+12	<21 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =75 fs 6 ( <b>1987Ki02</b> ).
6561.8+y <sup>#</sup> 3	J+14	14 fs 7	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =61 fs 5 ( <b>1987Ki02</b> ).
7758.2+y <sup>#</sup> 3	J+16	10 fs 8	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =43 fs 4 ( <b>1987Ki02</b> ).
9023.8+y <sup>#</sup> 3	J+18	<14 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =35 fs 4 ( <b>1987Ki02</b> ).
10360.6+y <sup>#</sup> 4	J+20	<7 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =26 fs 4 ( <b>1987Ki02</b> ).
11771.4+y <sup>#</sup> 4	J+22	<10 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =26 fs 4 ( <b>1987Ki02</b> ).
13259.5+y <sup>#</sup> 4	J+24	<10 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =22 fs 8 ( <b>1987Ki02</b> ).
14828.9+y <sup>#</sup> 4	J+26	<24 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> =22 fs 8 ( <b>1987Ki02</b> ).
16483.8+y <sup>#</sup> 5	J+28	<7 fs	T <sub>1/2</sub> : apparent T <sub>1/2</sub> <11 fs ( <b>1987Ki02</b> ).
18227.7+y <sup>#</sup> 5	J+30		T <sub>1/2</sub> : apparent T <sub>1/2</sub> <17 fs ( <b>1987Ki02</b> ).
20063.8+y <sup>#</sup> 6	J+32		
21994.8+y <sup>#</sup> 6	J+34		
24022.0+y <sup>#</sup> 7	J+36		
26144.8+y <sup>#</sup> 8	J+38		
28360.6+y <sup>#</sup> 9	J+40		

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$^{100}\text{Mo}(^{36}\text{S},4n\gamma):\text{SD}$  2005Pa30,1995Sa21,1996Cl03 (continued) $^{132}\text{Ce}$  Levels (continued)

E(level)	$J^\pi$	Comments
30663.6+y# 14	J+42	
33081.6+y# 17	J+44	
35585.6+y# 20	J+46	
38187.7+y# 22	J+48	
z@	J1≈(19 <sup>-</sup> )	$J^\pi$ : from 2005Pa30, based on 'identical' band relationships.
724.40+z@ 10	J1+2	
1518.70+z@ 15	J1+4	
2384.59+z@ 18	J1+6	
3313.60+z@ 20	J1+8	
4314.39+z@ 23	J1+10	
5382.89+z@ 25	J1+12	
6521.3+z@ 3	J1+14	
7732.6+z@ 3	J1+16	
9021.1+z@ 3	J1+18	
10385.6+z@ 4	J1+20	
11839.5+z@ 4	J1+22	
13377.8+z@ 5	J1+24	
14999.3+z@ 5	J1+26	
16729.5+z@ 6	J1+28	
18545.6+z@ 7	J1+30	
20452.2+z@ 8	J1+32	
22451.1+z@ 9	J1+34	
24536.7+z@ 11	J1+36	
u&	J2≈(24 <sup>-</sup> )	$J^\pi$ : from 2005Pa30, based on 'identical' band relationships.
890.19+u& 10	J2+2	
1839.79+u& 15	J2+4	
2857.29+u& 18	J2+6	
3945.70+u& 20	J2+8	
5107.09+u& 23	J2+10	
6335.28+u& 25	J2+12	
7640.6+u& 3	J2+14	
9024.1+u& 3	J2+16	
10489.5+u& 3	J2+18	
12030.6+u& 4	J2+20	
13642.1+u& 5	J2+22	
15307.5+u& 5	J2+24	
17043.1+u& 6	J2+26	
18858.3+u& 7	J2+28	
20743.4+u& 8	J2+30	
22697.1+u& 9	J2+32	
24697.8+u& 10	J2+34	
26752.0+u& 11	J2+36	

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<sup>100</sup>Mo(<sup>36</sup>S,4n $\gamma$ ):SD **2005Pa30,1995Sa21,1996Cl03 (continued)**

<sup>132</sup>Ce Levels (continued)

† Decays to four normal-deformed bands (1988NoZY).

‡ From DSAM (1987Ki02). Lifetime data from DSAM for three SD bands are reported by 1996Cl03 and values are given in terms of Fr and deduced quadrupole moments for the bands.

# Band(A): SD-1 band (2005Pa30,1996Se04,1995Sa21,1987Ki02,1985No02). Q(intrinsic)=7.4 2: weighted average of 7.4 3 (1996Cl03), 7.4 9 (1995Ha28), 7.5 6 (recalculated 8.8 8 by 1990RE12 from data of 1987Ki02), 7.5 7 (quoted by 1992PaZW). Other: 7.1 (1994WaZV).  $\beta_2$ (from Q)=0.41 4 (1995Ha28), 0.39 2 (1994WaZV). Percent population=1.4 to 3.5 (1998Wi13) as bombarding energy increases from 135 to 150 MeV in <sup>100</sup>Mo(<sup>36</sup>S,4n $\gamma$ ). Remains constant at about 3.5% between 150 and 175 MeV. Percent population=5 in <sup>100</sup>Mo(<sup>36</sup>S,4n $\gamma$ ) E=150 MeV (1987Ki02); 5.5 in <sup>100</sup>Mo(<sup>36</sup>S,4n $\gamma$ ) E=155 MeV (1995Sa21),  $\approx$ 6 (2005Pa30). 1996Cl03 point that in the decay of this band, it is seen that all transitions in the BAND(F) up to and including the 822 keV (18<sup>+</sup> $\rightarrow$ 16<sup>+</sup>)  $\gamma$  and no evidence for the 936 keV (20<sup>+</sup> $\rightarrow$ 18<sup>+</sup>). Configuration=( $\pi 5^4$ ) $\otimes$ ( $\nu 6^2$ ) (1995Ha34). There is some evidence of  $\Delta J=2$  staggering in the lower and higher rotational frequency regions, but not in the middle range (1996Se04).

Measurements of quasicontinuum spectra by 1998Fa07 suggest that the SD band is fed by a highly deformed quasicontinuum of transitions of quadrupole character. Configuration proposed by 2005Pa30: Lower part of SD-1 band:

$$\pi[(g_{9/2}^{-2})(d_{5/2}/g_{7/2})^6(h_{11/2}^4)]\nu[(h_{11/2}^{-4})(d_{5/2}/g_{7/2})^{-4}(d_{3/2}/s_{1/2})^{-4}(h_{9/2}/f_{7/2})^2(i_{13/2}^2)].$$

At higher spins different configurations are discussed by 2005Pa30, one such configuration being: starting at  $(h_{9/2}/f_{7/2})^2$  and then becoming  $(h_{9/2}/f_{7/2})^3$ .

@ Band(B): SD-2 band (2005Pa30,1995Sa21,1996Cl03). Percent population=1.0 (1995Sa21) in <sup>100</sup>Mo(<sup>36</sup>S,4n $\gamma$ ) E=155 MeV.  $\approx$  1 (2005Pa30) at E(<sup>36</sup>S)=160, 165 MeV. Q(intrinsic)=7.3 4 (1996Cl03) from DSAM data for all the transitions in the band. Probable excitation of a neutron from 1/2[411] ( $\alpha=+1/2$ ) or 7/2[523] orbital to 1/2[530] or 3/2[651]  $\alpha=+1/2$  orbital (1995Sa21, 1996Cl03).

& Band(C): SD-3 band (2005Pa30,1995Sa21,1996Cl03). Percent population=1.0 (1995Sa21) in <sup>100</sup>Mo(<sup>36</sup>S,4n $\gamma$ ) E=155 MeV;  $\approx$  1 (2005Pa30) at E(<sup>36</sup>S)=160, 165 MeV. Q(intrinsic)=7.6 4 (1996Cl03) from DSAM data for all the transitions in the band. Probable excitation of a neutron from 1/2[411] ( $\alpha=+1/2$ ) or 7/2[523] orbital to 1/2[530] or 3/2[651]  $\alpha=+1/2$  orbital (1995Sa21, 1996Cl03).

$\gamma(^{132}\text{Ce})$

Angular intensity ratio (from 2005Pa30):  $R=I(\gamma\gamma)$ (measured at 158 $^\circ$ ,gated at 90 $^\circ$ )/  $I(\gamma\gamma)$ (measured at 90 $^\circ$ ,gated at 158 $^\circ$ ). Value of  $\approx$ 1.0 is expected for  $\Delta J=2$ , E2 transitions and  $\approx$ 0.65 for  $\Delta J=1$ , dipole transitions.

$E_\gamma$ †	$I_\gamma$ ‡	$E_i$ (level)	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.#	Comments
724.4 1	0.47 1	724.40+z	J1+2	z	J1 $\approx$ (19 <sup>-</sup> )	Q	R=0.9 2.
770.8 1	0.10 1	770.80+y	J+2	y	J $\approx$ (20 <sup>+</sup> )	Q	$E_\gamma$ : other: 769.61 10 (1996Se04). R=1.0 2.
794.3 1	0.70 2	1518.70+z	J1+4	724.40+z	J1+2	Q	R=0.8 2.
809.3 1	0.67 1	1580.10+y	J+4	770.80+y	J+2	E2	$E_\gamma$ : other: 808.55 5 (1996Se04). R=0.9 2.
865.7 1	0.76 1	2445.81+y	J+6	1580.10+y	J+4	E2	$E_\gamma$ : other: 864.85 5 (1996Se04). R=0.9 1.
865.9 1	0.99 2	2384.59+z	J1+6	1518.70+z	J1+4	Q	R=0.8 2.
890.2 1	0.50 2	890.19+u	J2+2	u	J2 $\approx$ (24 <sup>-</sup> )		
929.0 1	0.97 2	3313.60+z	J1+8	2384.59+z	J1+6	Q	R=1.0 2.
929.6 1	1.00	3375.41+y	J+8	2445.81+y	J+6	E2	$E_\gamma$ : other: 928.80 5 (1996Se04). R=1.0 1.
949.6 1	0.71 2	1839.79+u	J2+4	890.19+u	J2+2	Q	R=1.2 4.
995.9 1	0.95 1	4371.31+y	J+10	3375.41+y	J+8	E2	$E_\gamma$ : other: 994.63 5 (1996Se04). R=1.0 1.
1000.8 1	1.00	4314.39+z	J1+10	3313.60+z	J1+8	Q	R=0.8 2.
1017.5 1	0.76 2	2857.29+u	J2+6	1839.79+u	J2+4		
1061.7 1	0.89 1	5433.02+y	J+12	4371.31+y	J+10	E2	$E_\gamma$ : other: 1060.32 5 (1996Se04). R=0.9 1.
1068.5 1	0.80 2	5382.89+z	J1+12	4314.39+z	J1+10	Q	R=1.2 4.

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<sup>100</sup>Mo(<sup>36</sup>S,4n $\gamma$ ):SD **2005Pa30,1995Sa21,1996Cl03 (continued)**

$\gamma(^{132}\text{Ce})$  (continued)

$E_\gamma$ †	$I_\gamma$ ‡	$E_i$ (level)	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. #	Comments
1088.4 1	0.72 2	3945.70+u	J2+8	2857.29+u	J2+6	Q	R=1.1 3.
1128.8 1	0.82 1	6561.8+y	J+14	5433.02+y	J+12	E2	$E_\gamma$ : other: 1127.27 6 (1996Se04). R=1.0 1.
1138.4 1	0.86 2	6521.3+z	J1+14	5382.89+z	J1+12	Q	R=1.4 4.
1161.4 1	0.84 2	5107.09+u	J2+10	3945.70+u	J2+8	Q	R=1.3 5.
1196.4 1	0.80 1	7758.2+y	J+16	6561.8+y	J+14	E2	$E_\gamma$ : other: 1194.72 6 (1996Se04). R=1.0 2.
1211.3 1	0.78 2	7732.6+z	J1+16	6521.3+z	J1+14	(Q)	R=0.8 2.
1228.2 1	0.90 2	6335.28+u	J2+12	5107.09+u	J2+10	Q	R=1.3 4.
1265.6 1	0.72 1	9023.8+y	J+18	7758.2+y	J+16	E2	$E_\gamma$ : other: 1263.63 6 (1996Se04). R=1.0 2.
1288.5 1	0.67 2	9021.1+z	J1+18	7732.6+z	J1+16	Q	R=1.1 2.
1305.3 1	1.00	7640.6+u	J2+14	6335.28+u	J2+12	(Q)	R=1.0 3.
1336.8 1	0.61 1	10360.6+y	J+20	9023.8+y	J+18	E2	$E_\gamma$ : other: 1334.56 7 (1996Se04). R=1.0 2.
1364.5 1	0.53 2	10385.6+z	J1+20	9021.1+z	J1+18	Q	R=1.6 4.
1383.5 1	0.85 2	9024.1+u	J2+16	7640.6+u	J2+14	(Q)	R=0.9 3.
1410.7 1	0.56 1	11771.4+y	J+22	10360.6+y	J+20	E2	$E_\gamma$ : other: 1408.34 9 (1996Se04). R=0.9 2.
1453.9 2	0.47 2	11839.5+z	J1+22	10385.6+z	J1+20	Q	R=1.6 4.
1465.4 1	0.70 2	10489.5+u	J2+18	9024.1+u	J2+16	(Q)	R=0.9 3.
1488.1 1	0.44 1	13259.5+y	J+24	11771.4+y	J+22	E2	$E_\gamma$ : other: 1485.67 10 (1996Se04). R=1.0 2.
1538.3 2	0.46 2	13377.8+z	J1+24	11839.5+z	J1+22	Q	R=1.6 4.
1541.1 2	0.43 2	12030.6+u	J2+20	10489.5+u	J2+18	(Q)	R=0.7 3.
1569.4 2	0.40 1	14828.9+y	J+26	13259.5+y	J+24	E2	$E_\gamma$ : other: 1566.70 10 (1996Se04). R=1.0 2.
1611.5 2	0.30 2	13642.1+u	J2+22	12030.6+u	J2+20	(Q)	R=0.8 3.
1621.5 2	0.17 2	14999.3+z	J1+26	13377.8+z	J1+24	Q	R=1.1 3.
1654.9 2	0.30 1	16483.8+y	J+28	14828.9+y	J+26	E2	$E_\gamma$ : other: 1651.49 12 (1996Se04). R=1.0 2.
1665.4 3	0.21 2	15307.5+u	J2+24	13642.1+u	J2+22		
1730.1 3	0.13 2	16729.5+z	J1+28	14999.3+z	J1+26	Q	R=1.4 3.
1735.6 3	0.24 2	17043.1+u	J2+26	15307.5+u	J2+24		
1743.9 2	0.25 1	18227.7+y	J+30	16483.8+y	J+28	Q	$E_\gamma$ : other: 1740.29 14 (1996Se04). R=1.1 2.
1815.2 3	0.16 2	18858.3+u	J2+28	17043.1+u	J2+26		
1816.1 3	0.10 2	18545.6+z	J1+30	16729.5+z	J1+28		
1836.1 2	0.21 1	20063.8+y	J+32	18227.7+y	J+30	Q	$E_\gamma$ : other: 1832.64 17 (1996Se04). R=1.1 2.
1885.0 4	0.17 2	20743.4+u	J2+30	18858.3+u	J2+28		
1906.6 4	0.09 2	20452.2+z	J1+32	18545.6+z	J1+30		
1931.0 2	0.15 1	21994.8+y	J+34	20063.8+y	J+32	Q	$E_\gamma$ : other: 1926.50 17 (1996Se04). R=1.1 2.
1953.7 4	0.12 2	22697.1+u	J2+32	20743.4+u	J2+30		
1998.9 5	0.06 2	22451.1+z	J1+34	20452.2+z	J1+32		
2000.7 4	0.12 2	24697.8+u	J2+34	22697.1+u	J2+32		
2027.2 3	0.09 1	24022.0+y	J+36	21994.8+y	J+34	Q	$E_\gamma$ : other: 2023.50 20 (1996Se04). R=1.1 2.
2054.2 5	0.03 1	26752.0+u	J2+36	24697.8+u	J2+34		
2085.6 5	0.05 2	24536.7+z	J1+36	22451.1+z	J1+34		
2122.8 4	0.05 1	26144.8+y	J+38	24022.0+y	J+36	Q	$E_\gamma$ : other: 2119.00 25 (1996Se04). R=1.6 5.
2215.7 5	0.03 1	28360.6+y	J+40	26144.8+y	J+38		
2303 1	0.02 1	30663.6+y	J+42	28360.6+y	J+40		
2418 1	<0.01	33081.6+y	J+44	30663.6+y	J+42		

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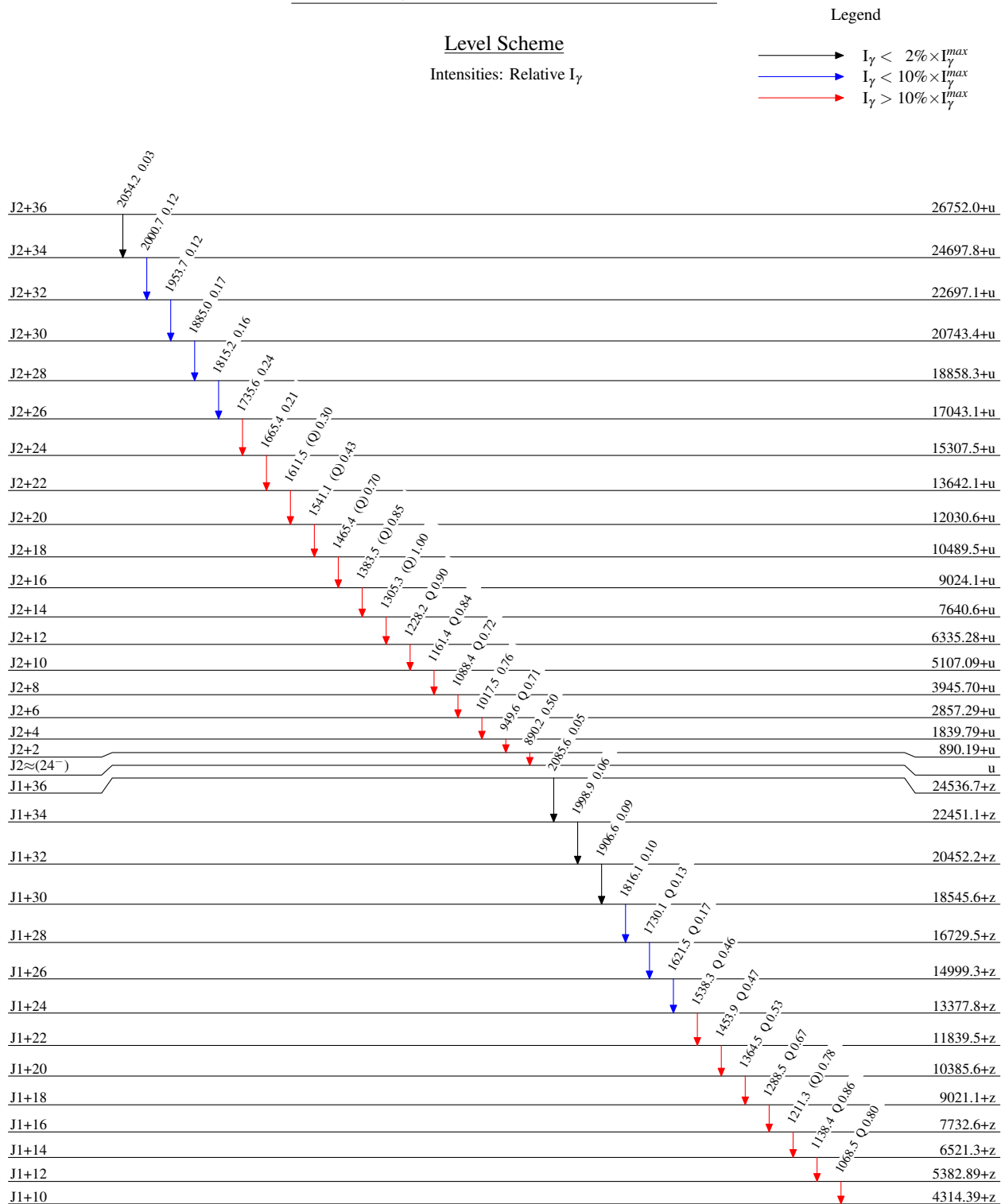
$^{100}\text{Mo}(^{36}\text{S},4n\gamma):\text{SD}$  [2005Pa30](#),[1995Sa21](#),[1996Cl03](#) (continued) $\gamma(^{132}\text{Ce})$  (continued)

$E_\gamma$ <sup>†</sup>	$I_\gamma$ <sup>‡</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
2504 <i>I</i>	<0.01	35585.6+y	J+46	33081.6+y	J+44
2602 <i>I</i>	<0.01	38187.7+y	J+48	35585.6+y	J+46

<sup>†</sup> From [2005Pa30](#). Others: [1996Se04](#), [1995Sa21](#) and [1987Ki02](#). [1987Ki02](#). For SD-1 band, values from [1996Se04](#) are more precisely quoted than in [2005Pa30](#), but are systematically lower (by about 1 keV at 800 keV to about 4 keV at 2100 keV) than those in [2005Pa30](#). In addition, the band is extended in [2005Pa30](#) by five transitions at the top.

<sup>‡</sup> Relative intensities within each band from [2005Pa30](#). Others: [1996Cl03](#), [1995Sa21](#) and [1987Ki02](#).

<sup>#</sup> From  $\gamma\gamma(\theta)$ ; RUL used when level lifetimes are known In SD-1 band.

$^{100}\text{Mo}(^{36}\text{S},4n\gamma):\text{SD}$  2005Pa30,1995Sa21,1996Cl03 $^{132}_{58}\text{Ce}_{74}$

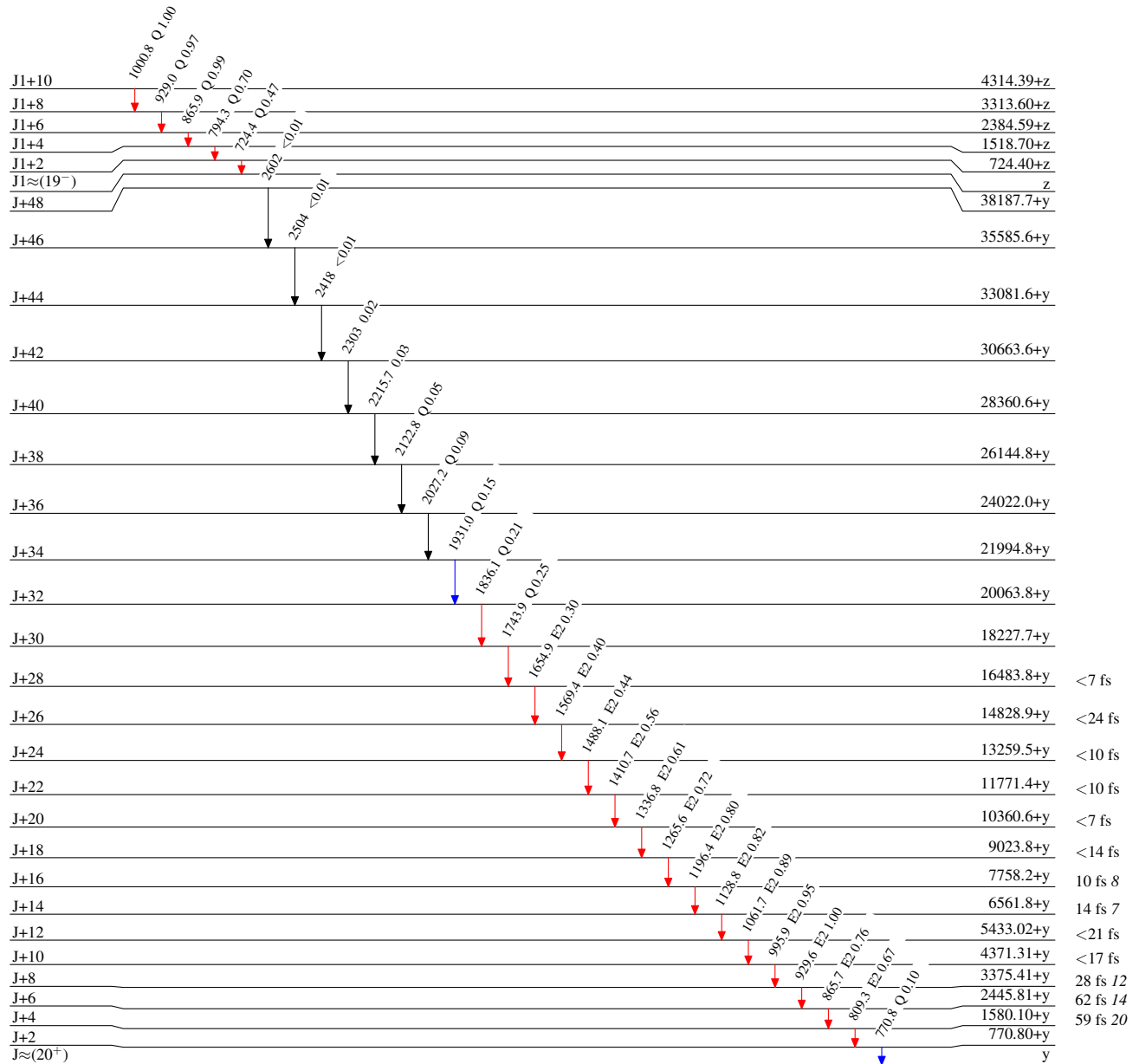
<sup>100</sup>Mo(<sup>36</sup>S,4nγ):SD 2005Pa30,1995Sa21,1996Cl03

Level Scheme (continued)

Intensities: Relative I<sub>γ</sub>

Legend

- I<sub>γ</sub> < 2% × I<sub>γ</sub><sup>max</sup>
- I<sub>γ</sub> < 10% × I<sub>γ</sub><sup>max</sup>
- I<sub>γ</sub> > 10% × I<sub>γ</sub><sup>max</sup>



$^{100}\text{Mo}(\text{}^{36}\text{S},4\text{n}\gamma):\text{SD}$  2005Pa30,1995Sa21,1996CI03

		Band(B): SD-2 band (2005Pa30, 1995Sa21,1996CI03)	
	J1+36		24536.7+z
	J1+34	2086	22451.1+z
	J1+32	1999	20452.2+z
	J1+30	1907	18545.6+z
	J1+28	1816	16729.5+z
	J1+26	1730	14999.3+z
	J1+24	1622	13377.8+z
	J1+22	1538	11839.5+z
	J1+20	1454	10385.6+z
	J1+18		9021.1+z
	J1+16	1364	7732.6+z
	J1+14	1288	6521.3+z
	J1+12	1211	5382.89+z
	J1+10	1138	4314.39+z
	J1+8	1068	3313.60+z
	J1+6	1001	2384.59+z
	J1+4	929	1518.70+z
	J1+2	866	724.40+z
	J1≈(19 <sup>-</sup> )	794	z
		724	
Band(A): SD-1 band (2005Pa30, 1996Se04,1995Sa21,1987Ki02, 1985No02)			
J+48		38187.7+y	
	2602		35585.6+y
J+46			
	2504		33081.6+y
J+44			
	2418		30663.6+y
J+42			
	2303		28360.6+y
J+40			
	2216		26144.8+y
J+38			
	2123		24022.0+y
J+36			
	2027		21994.8+y
J+34			
	1931		20063.8+y
J+32			
	1836		18227.7+y
J+30			
	1744		16483.8+y
J+28			
	1655		14828.9+y
J+26			
	1569		13259.5+y
J+24			
	1488		11771.4+y
J+22			
	1411		10360.6+y
J+20			
	1337		9023.8+y
J+18			
	1266		7758.2+y
J+16			
	1196		6561.8+y
J+14			
	1129		5433.02+y
J+12			
	1062		4371.31+y
J+10			
	996		3375.41+y
J+8			
	930		2445.81+y
J+6			
	866		1580.10+y
J+4			
	809		770.80+y
J+2			
J≈(20 <sup>+</sup> )		771	y



$^{100}\text{Mo}(^{36}\text{S},4n\gamma):\text{SD}$  2005Pa30,1995Sa21,1996C103 (continued)Band(C): SD-3 band (2005Pa30,  
1995Sa21,1996C103)

J2+36	26752.0+u
	2054
J2+34	24697.8+u
	2001
J2+32	22697.1+u
	1954
J2+30	20743.4+u
	1885
J2+28	18858.3+u
	1815
J2+26	17043.1+u
	1736
J2+24	15307.5+u
	1665
J2+22	13642.1+u
	1612
J2+20	12030.6+u
	1541
J2+18	10489.5+u
	1465
J2+16	9024.1+u
	1384
J2+14	7640.6+u
	1305
J2+12	6335.28+u
	1228
J2+10	5107.09+u
	1161
J2+8	3945.70+u
	1088
J2+6	2857.29+u
	1018
J2+4	1839.79+u
	950
J2+2	890.19+u
J2≈(24 <sup>-</sup> )	890 u