

<sup>189</sup>Os(t,α) **1979St26**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Juutinen, D. J. Hartley		NDS 150, 1 (2018)	1-Feb-2018

**1979St26:** E=15.1 MeV at LANL. Enriched target, magnetic spectrograph, α-particle tracks recorded on emulsion plates. Data obtained at 30° and 45°, FWHM≈20 keV. DWBA analysis.

<sup>188</sup>Re Levels

E(level) <sup>#</sup>	J <sup>π</sup> <sup>†</sup>	dσ/dΩ <sup>‡</sup>	Comments
0.0 <sup>@</sup>	1 <sup>-</sup>	0.05 3	
64 <sup>@</sup> 5	2 <sup>-</sup>	0.10 5	
183 <sup>&amp;</sup>	3 <sup>-</sup> , 4 <sup>-</sup>	1.0	E(level): admixture with J <sup>π</sup> =3 <sup>-</sup> , K <sup>π</sup> =1 <sup>-</sup> , π5/2[402]⊗ν3/2[512].
284 <sup>@</sup> 6	4 <sup>-</sup>	0.05 3	
343 <sup>&amp;</sup> 3	5 <sup>-</sup> , 4 <sup>+</sup>	0.33 10	E(level): admixture with J <sup>π</sup> =4 <sup>+</sup> , K <sup>π</sup> =3 <sup>+</sup> , π9/2[514]⊗ν3/2[512].
393 4		0.14 7	
486 <sup>a</sup> 3	5 <sup>+</sup> , 6 <sup>+</sup>	0.38 12	E(level): admixture with J <sup>π</sup> =6 <sup>+</sup> , K <sup>π</sup> =6 <sup>+</sup> , π9/2[514]⊗ν3/2[512].
591 <sup>b</sup> 3	2 <sup>-</sup>	0.48 15	E(level): admixture with J <sup>π</sup> =6 <sup>+</sup> , K <sup>π</sup> =3 <sup>+</sup> , π9/2[514]⊗ν3/2[512].
651 <sup>b</sup> 3	3 <sup>-</sup>	0.49 15	
748 <sup>c</sup> 5	1 <sup>-</sup>	0.24 12	
803 5		0.19 10	
886 <sup>c</sup> 3	2 <sup>-</sup>	0.59 18	
926 <sup>c</sup> 6	3 <sup>-</sup>	0.41 13	E(level): Probable doublet.
1008 3		0.24 12	

<sup>†</sup> Proposed in **1979St26**.

<sup>‡</sup> Relative to the value for the 183-keV level. Authors reported average of 30° and 45° data.

<sup>#</sup> Measured with respect to the 183-keV level; value taken from (d,p) data (**1979St26**).

<sup>@</sup> Band(A): K<sup>π</sup>=1<sup>-</sup>, π5/2[402]⊗ν3/2[512].

<sup>&</sup> Band(B): K<sup>π</sup>=4<sup>-</sup>, π5/2[402]⊗ν3/2[512].

<sup>a</sup> Band(C): K<sup>π</sup>=3<sup>+</sup>, π9/2[514]⊗ν3/2[512].

<sup>b</sup> Band(D): K<sup>π</sup>=2<sup>-</sup>, π1/2[411]⊗ν3/2[512].

<sup>c</sup> Band(E): K<sup>π</sup>=1<sup>-</sup>, π1/2[411]⊗ν3/2[512].

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			<b>Band(E): <math>K^\pi=1^-</math>, <math>\pi 1/2[411] \otimes v3/2[512]</math></b>
			<u>3<sup>-</sup> 926</u>
			<u>2<sup>-</sup> 886</u>
			<b>Band(D): <math>K^\pi=2^-</math>, <math>\pi 1/2[411] \otimes v3/2[512]</math></b>
			<u>3<sup>-</sup> 651</u>
			<u>1<sup>-</sup> 748</u>
			<b>Band(C): <math>K^\pi=3^+</math>, <math>\pi 9/2[514] \otimes v3/2[512]</math></b>
			<u>5<sup>+</sup>,6<sup>+</sup> 486</u>
			<u>2<sup>-</sup> 591</u>
			<b>Band(B): <math>K^\pi=4^-</math>, <math>\pi 5/2[402] \otimes v3/2[512]</math></b>
			<u>5<sup>-</sup>,4<sup>+</sup> 343</u>
			<b>Band(A): <math>K^\pi=1^-</math>, <math>\pi 5/2[402] \otimes v3/2[512]</math></b>
			<u>4<sup>-</sup> 284</u>
			<u>3<sup>-</sup>,4<sup>-</sup> 183</u>
			<u>2<sup>-</sup> 64</u>
			<u>1<sup>-</sup> 0.0</u>