<sup>193</sup> Os(n, $\gamma$ ) E=thermal	1978Ca16
---	----------

Type Author Citation Literature Cutoff Date
Full Evaluation Jun Chen and Balraj Singh NDS 177, 1 (2021) 3-Sep-2021

1978Ca16: Thermal neutrons were produced from the ILL high-flux reactor. Successive neutron capture in  $^{192}$ Os target.  $\gamma$  rays were detected with curved-crystal spectrometers. Measured E $\gamma$ , I $\gamma$ . Deduced levels. No data on primary transitions are available.

## <sup>194</sup>Os Levels

E(level)  $J^{\pi \dagger}$ 0.0  $0^{+}$ 218.509 6 (2<sup>+</sup>) 656.540 9 (2<sup>+</sup>)

## $\gamma$ (194Os)

$E_{\gamma}^{\dagger}$	$I_{\gamma}^{\ddagger \#}$	$E_i(level)$	$\mathbf{J}_i^{\pi}$	$\mathbf{E}_f$ $\mathbf{J}_f^{\pi}$	Comments
218.511 6	100	218.509	$(2^{+})$	0.0 0+	
438.034 8	29 <i>4</i>	656.540	$(2^{+})$	218.509 (2+)	$I_{\gamma}$ : $\Delta I_{\gamma}$ from B(E2)(438 $\gamma$ )/B(E2)(656 $\gamma$ )=4.0 6 deduced by 1978Ca16.
656.526.16			$(2^{+})$	$0.0   0^{+}$	•

 $<sup>^{\</sup>dagger}$  Measurement with a curved-crystal spectrometer.  $\Delta E$  is statistical. The systematic uncertainty is not given by the authors.

<sup>†</sup> From Adopted Levels.

<sup>&</sup>lt;sup>‡</sup> Relative photon intensity. Authors quote  $I\gamma(218\gamma)=80\ 10$  per 100-neutron captures.

<sup>#</sup> For intensity per 100 neutron captures, multiply by 0.80 10.

## <sup>193</sup>Os(n,γ) E=thermal **1978Ca16**

## Level Scheme

Intensities: \$Per 100 neutron captures



