

$^{191}\text{Ir}(\text{d},\text{d}')$ 1971No01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 195,368 (2024)	1-Dec-2023

Target: 94.66% enriched ^{191}Ir ; spectrometer: magnetic.
 $E=12.1$ MeV; θ : 90° , 125° , 150° .
 Measured energies and cross sections.

 ^{191}Ir Levels

E(level) [†]	$d\sigma/d\Omega$ [#]	Comments
0.0	1.2×10^4	$d\sigma/d\Omega$: 9.7×10^4 $\mu\text{b/sr}$ (90°), 2.3×10^4 $\mu\text{b/sr}$ (125°).
81	62	$d\sigma/d\Omega$: 120 $\mu\text{b/sr}$ (90°), 57 $\mu\text{b/sr}$ (125°).
129.4 [‡]	576	$d\sigma/d\Omega$: 917 $\mu\text{b/sr}$ (90°), 707 $\mu\text{b/sr}$ (125°).
178	99	$d\sigma/d\Omega$: 141 $\mu\text{b/sr}$ (90°), 143 $\mu\text{b/sr}$ (125°).
343	369	$d\sigma/d\Omega$: 565 $\mu\text{b/sr}$ (90°), 429 $\mu\text{b/sr}$ (125°).
502	32	$d\sigma/d\Omega$: 4 $\mu\text{b/sr}$ (90°), 27 $\mu\text{b/sr}$ (125°).
535	4	$d\sigma/d\Omega$: 11 $\mu\text{b/sr}$ (125°).
614	7	$d\sigma/d\Omega$: 10 $\mu\text{b/sr}$ (125°).
656	8	$d\sigma/d\Omega$: 10 $\mu\text{b/sr}$ (90°), 8 $\mu\text{b/sr}$ (125°).
684	112	$d\sigma/d\Omega$: 142 $\mu\text{b/sr}$ (90°), 170 $\mu\text{b/sr}$ (125°).
830	16	$d\sigma/d\Omega$: 11 $\mu\text{b/sr}$ (125°).
1139	19	$d\sigma/d\Omega$: 13 $\mu\text{b/sr}$ (90°), 38 $\mu\text{b/sr}$ (125°).
1393	6	$d\sigma/d\Omega$: 5 $\mu\text{b/sr}$ (125°).
1507	7	

[†] Uncertainties are: 4 keV, for levels close to g.s.; 8 keV, for highest-lying levels.

[‡] From ^{191}Pt ε decay.

[#] In units of $\mu\text{b/sr}$. Listed data in column are for 150° , other data for 90° and 125° are listed in the comments section. About 5% and 30% uncertainties were expected for large and small cross section values, noted in 1971No01.