^{194}Pt(α,d) 2004Wi08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong	NDS 108, 1093 (2007)	1-Jan-2006

E=36 MeV. Measured E(deuteron), cross sections with a cathode strip, focal plane detector, in the Q3D focal plane. The detector is a position-sensitive proportional counter with a single-strip readout of a cathode foil and $\Delta E/E_{rest}$ particle identification. Outgoing deuterons were momentum seperated by the Q3D magnetic spectrograph. Absolute differential cross sections were measured by stopping the beam in a Faraday cup and integrating the current. To reduce the influence of background lines, the x slits of the spectrograph were closed, reducing the full acceptance solid angle of the Q3D by half. Outgoing deuterons were detected at a laboratory angle of 20°.

^{196}Au Levels

$d\sigma/d\Omega$ measured at θ_{lab}=20°.

E(level)	Comments
0.0	$d\sigma/d\Omega$=4.0 *3* μb/sr.
41.6 *9*	$d\sigma/d\Omega$=0.67 *14* μb/sr.
84.9 *8*	$d\sigma/d\Omega$=0.69 *14* μb/sr.
166.1 *5*	$d\sigma/d\Omega$=1.77 *19* μb/sr.
212.7 *4*	$d\sigma/d\Omega$=4.8 *3* μb/sr.
231.9 *17*	$d\sigma/d\Omega$=0.33 *13* μb/sr.
251 *3*	$d\sigma/d\Omega$=0.17 *11* μb/sr.
286.4 *24*	$d\sigma/d\Omega$=0.20 *12* μb/sr.
307.7 *8*	$d\sigma/d\Omega$=0.81 *16* μb/sr.
348.0 *6*	$d\sigma/d\Omega$=1.27 *17* μb/sr.
375.7 *8*	$d\sigma/d\Omega$=0.79 *16* μb/sr.
413.7 *10*	$d\sigma/d\Omega$=0.79 *18* μb/sr.
457.2 *10*	$d\sigma/d\Omega$=0.77 *16* μb/sr.
467.6 *8*	$d\sigma/d\Omega$=0.95 *17* μb/sr.
491.0 *6*	$d\sigma/d\Omega$=1.79 *21* μb/sr.
501.1 *8*	$d\sigma/d\Omega$=1.16 *19* μb/sr.
517.2 *16*	$d\sigma/d\Omega$=0.37 *13* μb/sr.
568.4 *21*	$d\sigma/d\Omega$=0.37 *13* μb/sr.
594.9 *17*	$d\sigma/d\Omega$=0.49 *14* μb/sr.
641.3 *9*	$d\sigma/d\Omega$=1.53 *21* μb/sr.
654 *3*	$d\sigma/d\Omega$=0.38 *16* μb/sr.
668.9 *14*	$d\sigma/d\Omega$=0.72 *16* μb/sr.
686.4 *20*	$d\sigma/d\Omega$=0.42 *14* μb/sr.
707.8 *7*	$d\sigma/d\Omega$=4.1 *4* μb/sr.
718.4 *13*	$d\sigma/d\Omega$=1.4 *3* μb/sr.
749.8 *8*	$d\sigma/d\Omega$=1.36 *18* μb/sr.
799.6 *10*	$d\sigma/d\Omega$=1.02 *21* μb/sr.
815.7 *11*	$d\sigma/d\Omega$=0.99 *21* μb/sr.
854.2 *9*	$d\sigma/d\Omega$=1.62 *22* μb/sr.
883.3 *10*	$d\sigma/d\Omega$=1.36 *22* μb/sr.
902.3 *7*	$d\sigma/d\Omega$=3.0 *3* μb/sr.
921.5 *7*	$d\sigma/d\Omega$=3.5 *3* μb/sr.