^{31}P(p,p′) 1968Gu01,1988Fa01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Christian Ouellet, Balraj Singh	NDS 112, 2199 (2011)	24-Aug-2011

$J^{\pi}(^{31}\text{P g.s.})=1/2^{+}$.

1988Fa01: E=1.00-4.01 MeV protons from the KN Van de Graaff accelerator at TUNL. Zn_3P_2 targets. Measured excitation functions and used R-matrix analysis to determine spins.

1968Gu01: E=2 MeV protons from the Van de Graaff, Laboratoire de Physique, Ecole Polytechnique, Paris. PH_3 targets, scintillator detectors. Measured angular distributions and widths.

^{32}S Levels

E(level)[†]	Γ	L[‡]	Comments
10079[#] *2*	1.7[#] keV *4*	(1)[#]	E(level): E(p)=1254 *2* (1968Gu01), 1250 (1988Fa01).
10223			E(level): E(p)=1403 (1988Fa01).
10257			E(level): E(p)=1438 (1988Fa01).
10337[#] *3*	9[#] keV *2*	(1)[#]	E(level): E(p)=1521 *2* (1968Gu01).
10372			E(level): E(p)=1557 (1988Fa01).
10405[#] *3*	11[#] keV *4*	(1,0)[#]	E(level): E(p)=1591 *2* (1968Gu01), 1583 (1988Fa01).
10534[#] *4*	[#]	[#]	E(level): E(p)=1724 *2* (1968Gu01).
10550[#] *4*	[#]	[#]	E(level): E(p)=1740 *2* (1968Gu01).
10708[#] *4*	20[#] keV *3*	(1)[#]	E(level): E(p)=1904 *2* (1968Gu01).
10791			E(level): E(p)=1989 (1988Fa01).
10824			E(level): E(p)=2023 (1988Fa01).
10977			E(level): E(p)=2181 (1988Fa01).
11092			E(level): E(p)=2300 (1988Fa01).

[†] From 1988Fa01, unless otherwise noted.
[‡] Fits to the data are generally poor and are not taken as strong arguments.
[#] From 1968Gu01.