

$^{208}\text{Pb}(^{64}\text{Ni},\text{X})$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huang Xiaolong, J. K. Tuli		NDS 106, 159 (2005)	1-Apr-2005

Including: ($^{76}\text{Ge},\text{X}$) and ($^{86}\text{Kr},\text{X}$).

1994Pa20: thick target (^{208}Pb 98.7% enriched), $E(^{64}\text{Ni})=350$ MeV, 11 Compton suppressed Ge detectors and an liner ball of 48 BGO elements, measured $E\gamma$, $I\gamma$, $\gamma\gamma$ coincidence. See also **1994Pa32** and **1995Fo16**.

2003Ma50: $E(^{76}\text{Ge})=60$ MeV/nucleon, ^9Be target,

2002Ge16,2004Ge11: $E(^{76}\text{Ge})=61.4$ MeV/nucleon, ^9Be target, TDPAD method, see also **2001Ge13**.

1997Is13: $E(^{76}\text{Ge})=635$ MeV, target: ^{198}Pt , 4.3 mg/cm², measured $E\gamma$, $\gamma\gamma$ coincidence.

1998Gr14: $E(^{86}\text{Kr})=60.3$ MeV/nucleon, natural Ni target.

 ^{67}Ni Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	$1/2^-$		
694.1	$5/2^-$	150 ps 4	$T_{1/2}$: From 2003Ma50 .
1007.2	$(9/2^+)$	13.3 μs 2	$g=0.125$ 6 (2002Ge16,2004Ge11) J^π : from assigned multipolarity and expected configuration= $(\nu g_{9/2})$ (1998Gr14). $T_{1/2}$: from 1998Gr14 . Others: >0.3 μs (1994Pa20,1994Pa32), >0.6 μs (1997Is13).

 $\gamma(^{67}\text{Ni})$

E_γ^\dagger	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	Comments
313.1 I	100	1007.2	$(9/2^+)$	694.1	$5/2^-$	(M2)	$B(\text{M2})\downarrow=0.047$ (1998Gr14) Mult.: from comparison of measured $T_{1/2}$ with Weisskopf estimate (1998Gr14). Similar isomeric transition in ^{65}Fe .
694.1 I	100	694.1	$5/2^-$	0.0	$1/2^-$	E2	$B(\text{E2})\downarrow=1.46$ 4(2003Ma50) Mult.: expected E2 from ΔJ and configuration (1998Gr14).

† From **1994Pa20**.

