^{9}Be(HI,xnγ)   2016Sh07

		History		
Type	Author		Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne		NDS 157, 260 (2019)	1-Mar-2019

Based on compilation in XUNDL by B. Singh (McMaster), March 1, 2016.

2016Sh07: secondary radioactive ion beams (RIBs) of ^{82}Ge, ^{83}As and other neutron-rich isotopes in the vicinity of ^{78}Ni were produced in ^{9}Be(^{238}U,X), E(^{238}U)=345 MeV/nucleon primary fragmentation reaction at RIBF-RIKEN facility.

The reaction products from the secondary reaction were analyzed by tof-Bρ-ΔE method using the ZeroDegree spectrometer optimized for transmission of ^{78}Ni. Measured Eγ, Iγ, particle spectra, (particle)γ- and $\gamma\gamma$-coin spectra, Doppler-shift corrected γ spectra using DALI2 array of 186 NaI(Tl) detectors covering angles of $\approx$18°$-$148° with respect to the beam direction. Coincidence timing window between the particles and γ detection was 10 ns.

^{82}Zn Levels

E(level)†	J$^{\pi}$	Comments
0	0^{+}	
621 11	(2^{+})	J$^{\pi}$: as proposed by 2016Sh07.

† From Eγ data.

$\gamma(^{82}$Zn)

E$_{\gamma}$	E$_{i}$(level)	J$^{\pi}_{i}$	E$_{f}$	J$^{\pi}_{f}$
621 11	621	(2^{+})	0	0^{+}

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Level Scheme

$^{82}_{30}$Zn$_{52}$