

²³⁸U(⁷⁰Zn,Xγ) 2008Va08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 196,17 (2024)	30-Sep-2023

Adapted from the XUNDL dataset for 2008Va08 compiled by S. Geraedts and B. Singh (McMaster Univ.), August 14, 2008.
2008Va08: E=460 MeV ⁷⁰Zn beam was produced from the LNL Tandem-ALPI accelerator. Target was 1 mg/cm² ²³⁸U. Charged particles were detected with the PRISMA magnetic spectrometer; γ rays were detected with the CLARA array of 22 Clover Ge detectors with Compton suppression. Measured Eγ, Iγ, γγ-coin, particle-γ coin. Deduced levels. Comparisons with shell-model calculations.
Additional information 1.

⁶³Mn Levels

E(level) [†]	J ^π	Comments
0	5/2 ⁽⁻⁾	J ^π : from Adopted Levels.
248.4 5	(7/2 ⁻)	J ^π : from shell-model predictions (2008Va08).

[†] From Eγ data.

γ(⁶³Mn)

Eγ [†]	Iγ [†]	E _i (level)	J ^π _i	E _f	J ^π _f
248.4 5	100 33	248.4	(7/2 ⁻)	0	5/2 ⁽⁻⁾

[†] From 2008Va08.

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Level Scheme

Intensities: Relative I_γ

