238 U(70 Zn,X γ) **2008Va08**

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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 Εγ, Ιγ, 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).

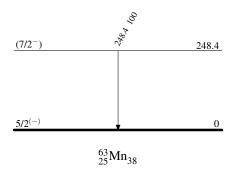
 γ (63Mn)

$$\frac{\text{E}_{\gamma}^{\dagger}}{248.4}$$
 $\frac{\text{I}_{\gamma}^{\dagger}}{100 \ 33}$ $\frac{\text{E}_{i}(\text{level})}{248.4}$ $\frac{\text{J}_{i}^{\pi}}{(7/2^{-})}$ $\frac{\text{E}_{f}}{0}$ $\frac{\text{J}_{f}^{\pi}}{5/2^{(-)}}$

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Level Scheme

Intensities: Relative I_{γ}



[†] From Eγ data.

[†] From 2008Va08.