Japan Charged-Particle Nuclear Reaction Data Group

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Memo CP-E/123

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To: Distribution
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Subject: ENTRY L0091 correction
Reference Memo CP-M/23

Excitation functions of (γ,n) reaction and (γ,x+n) on ^{238}U and ^{232}Th compiled in EXFOR are plotted for discussion.

(1) L. Katz et al. define σ (γ,N) as follows:

$$\sigma(\gamma,N) = \sigma(\gamma,n) + 2\,\sigma(\gamma,2n) + \ldots + \nu\,\sigma(\gamma,f) + (\nu+1)\,\sigma(\gamma,n+f) + \ldots$$

, and they use σ(γ,N) (not σ(γ,n)) in their captions of Fig.1 to 4.

(2) Above threshold of (γ,2n) (about 11 MeV), both R. Bergere et al. (L0082) and L. Katz et al. (L0091) are coded as (γ,n). R. Bergere's data show competition with (γ,2n), but Katz's data do not show it.

(3) Absolute cross section of L. Katz et al. is close to data sets coded as (γ,x+n).

Therefore I would like to support the correction proposed in CP-M/23:

…(G,N)… to …(G,X)0-NN-1

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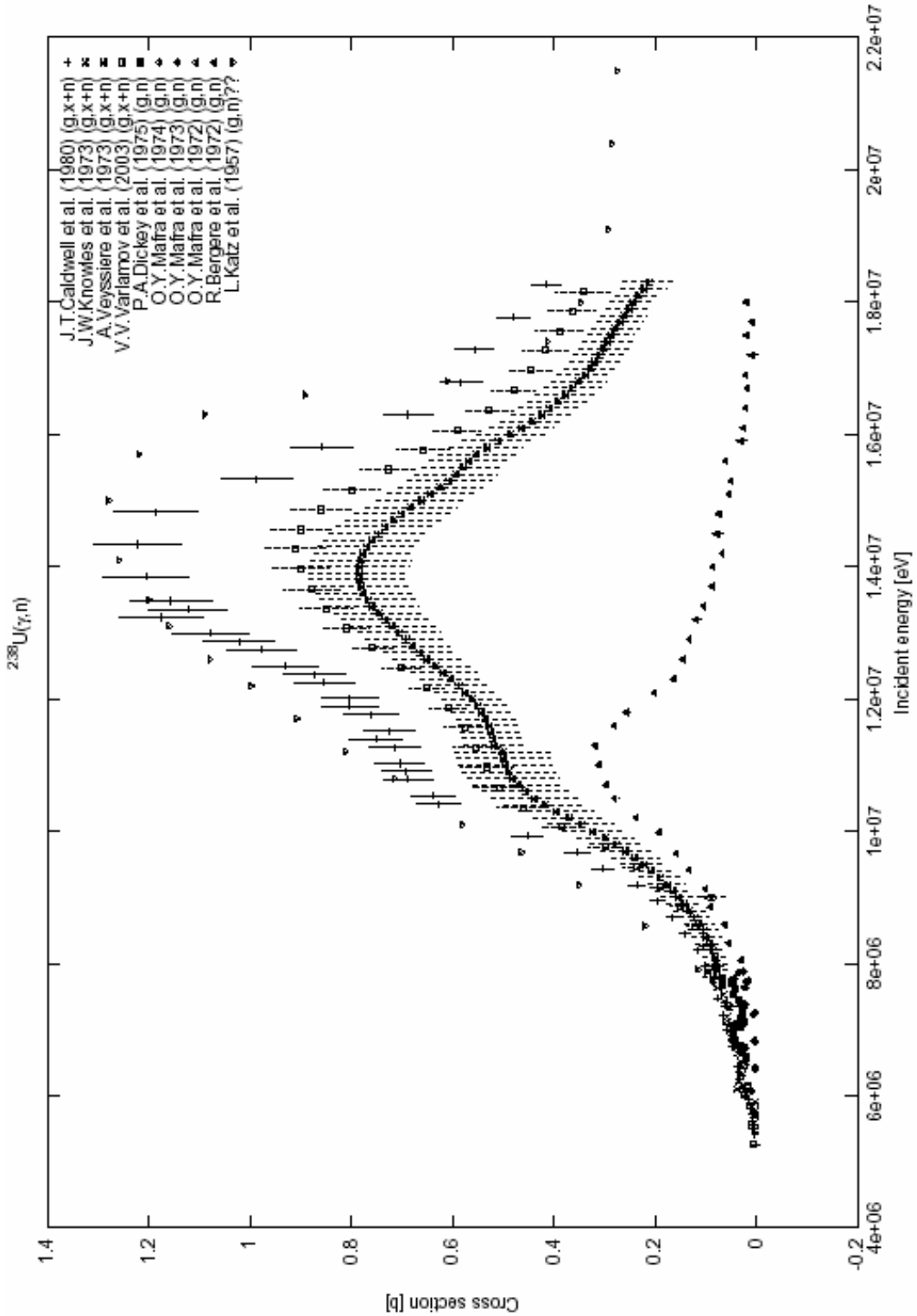
^{238}U(γ,n) and ^{238}U(γ,x+n)



^{232}Th(γ,n) and ^{232}Th(γ,x+n)