

Program EVALPLOT
(Version 2017-1)

by

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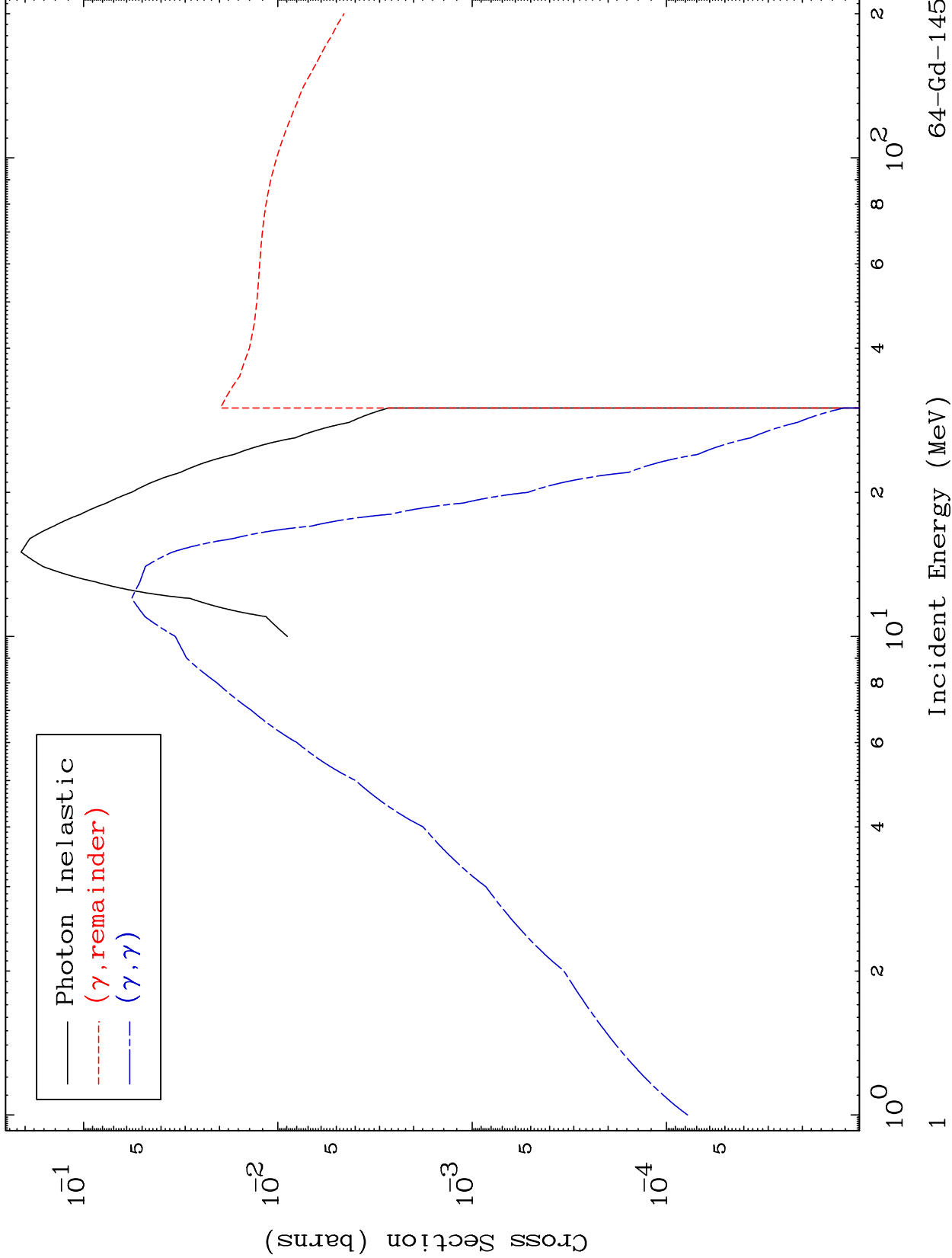
Press Mouse Button to Start

MAT 6404

Photon Major

64-Gd-145

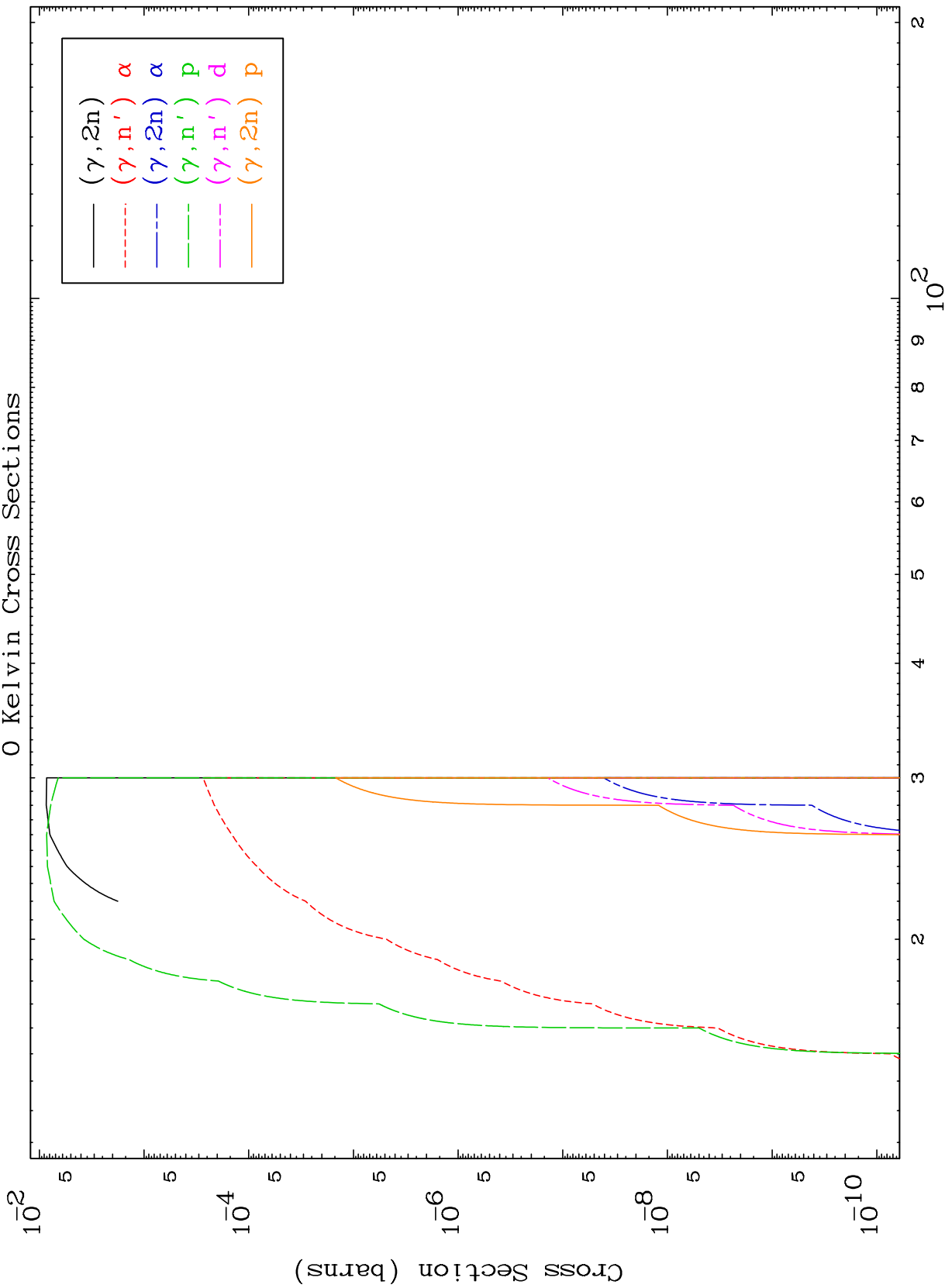
0 Kelvin Cross Sections



— Photon Inelastic
- - - (γ , remainder)
- . - (γ , γ)

64-Gd-145

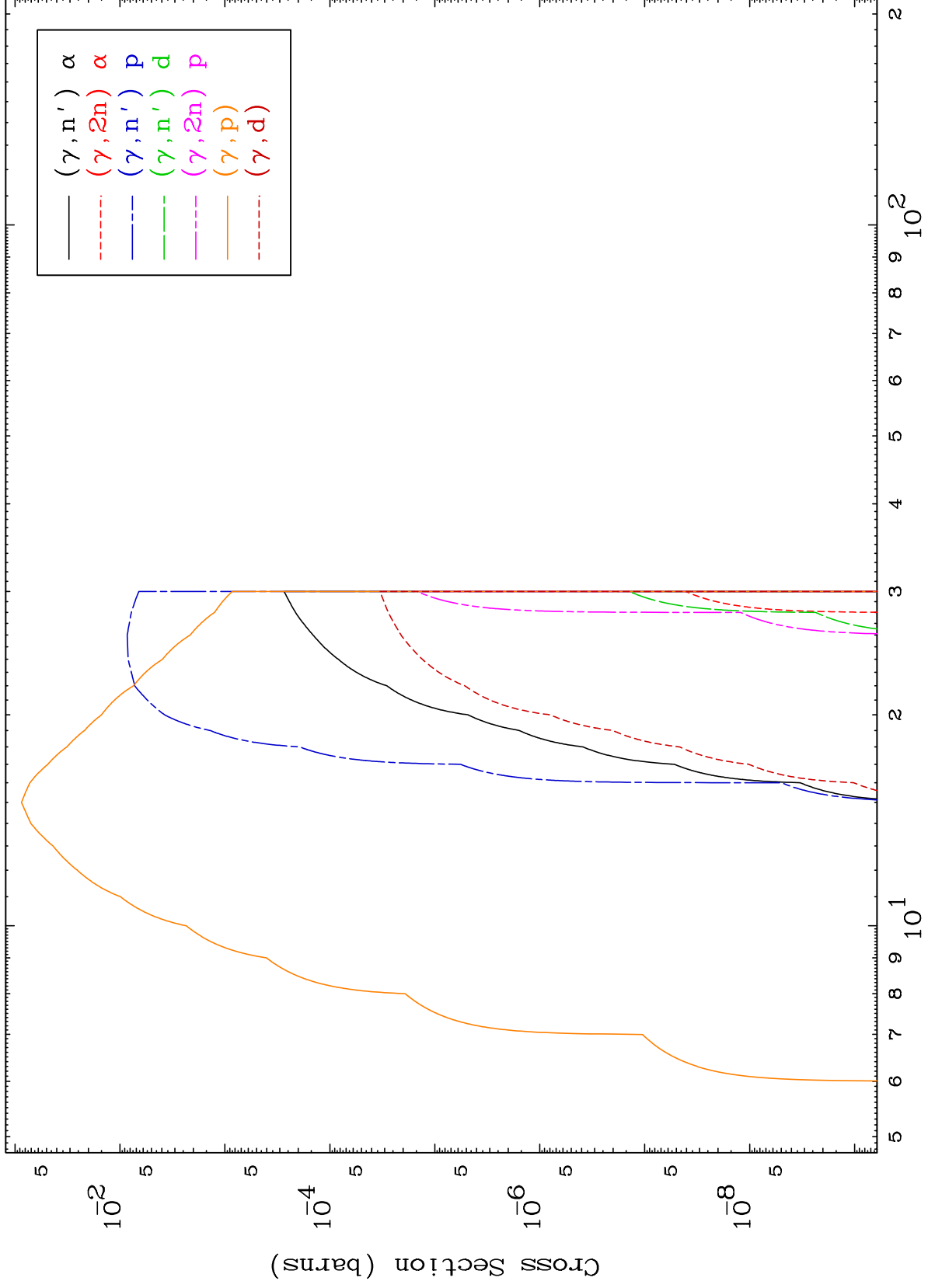
Incident Energy (MeV)



MAT 6404

Photon Charged Particle
0 Kelvin Cross Sections

64-Gd-145



3

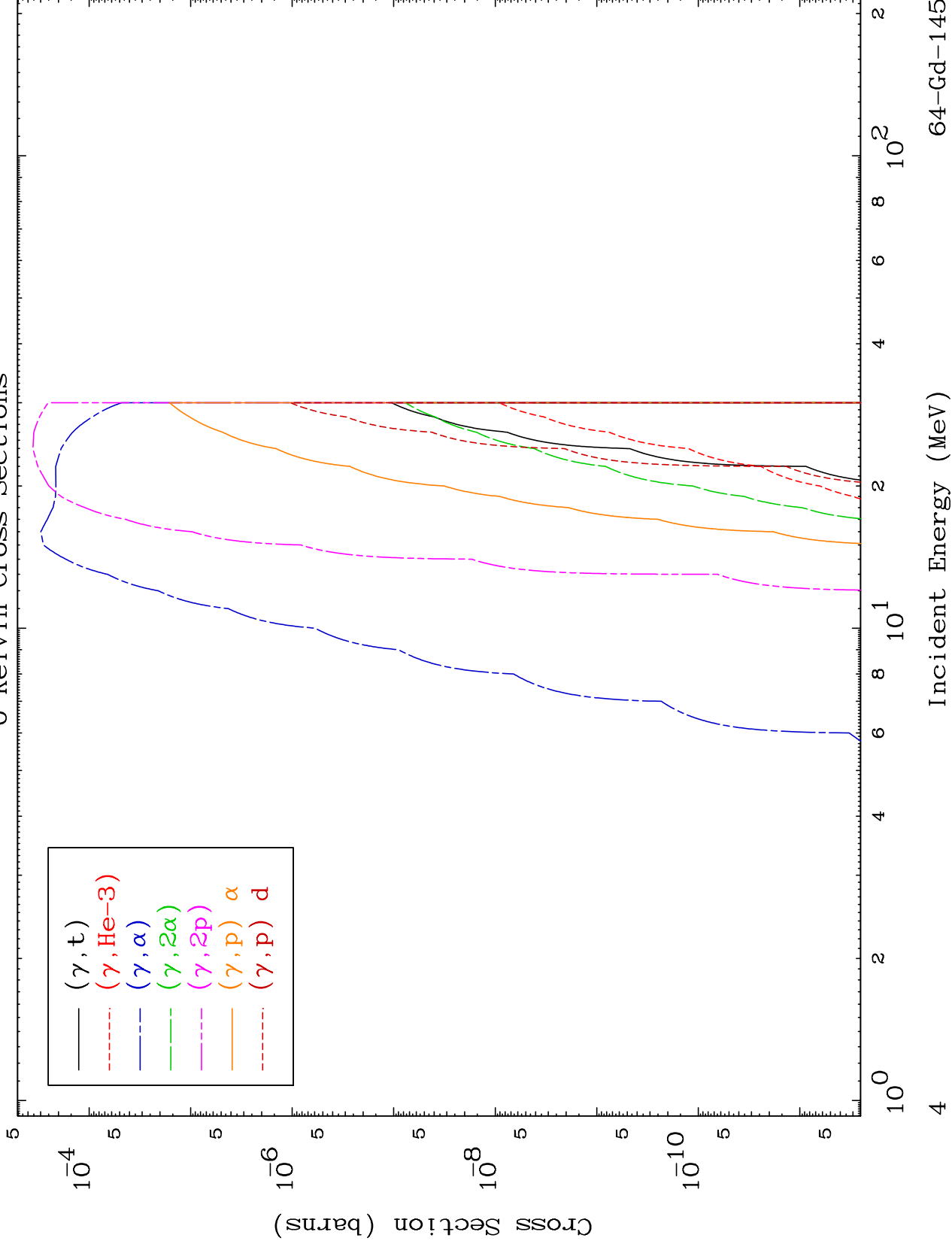
Incident Energy (MeV)

64-Gd-145

MAT 6404

Photon Charged Particle
0 Kelvin Cross Sections

64-Gd-145



64-Gd-145

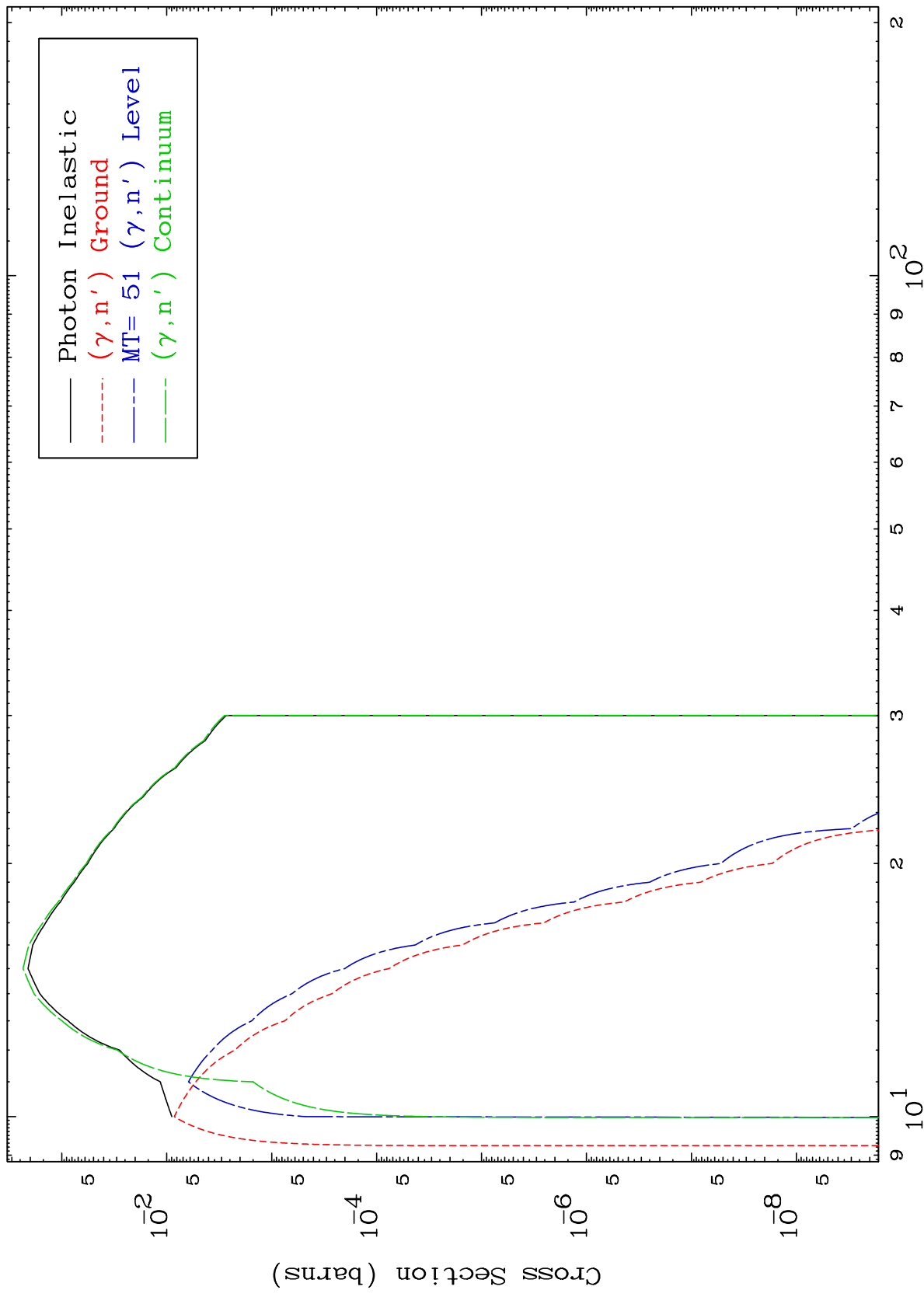
Incident Energy (MeV)

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(γ, n') Level

64-Gd-145

0 Kelvin Cross Sections



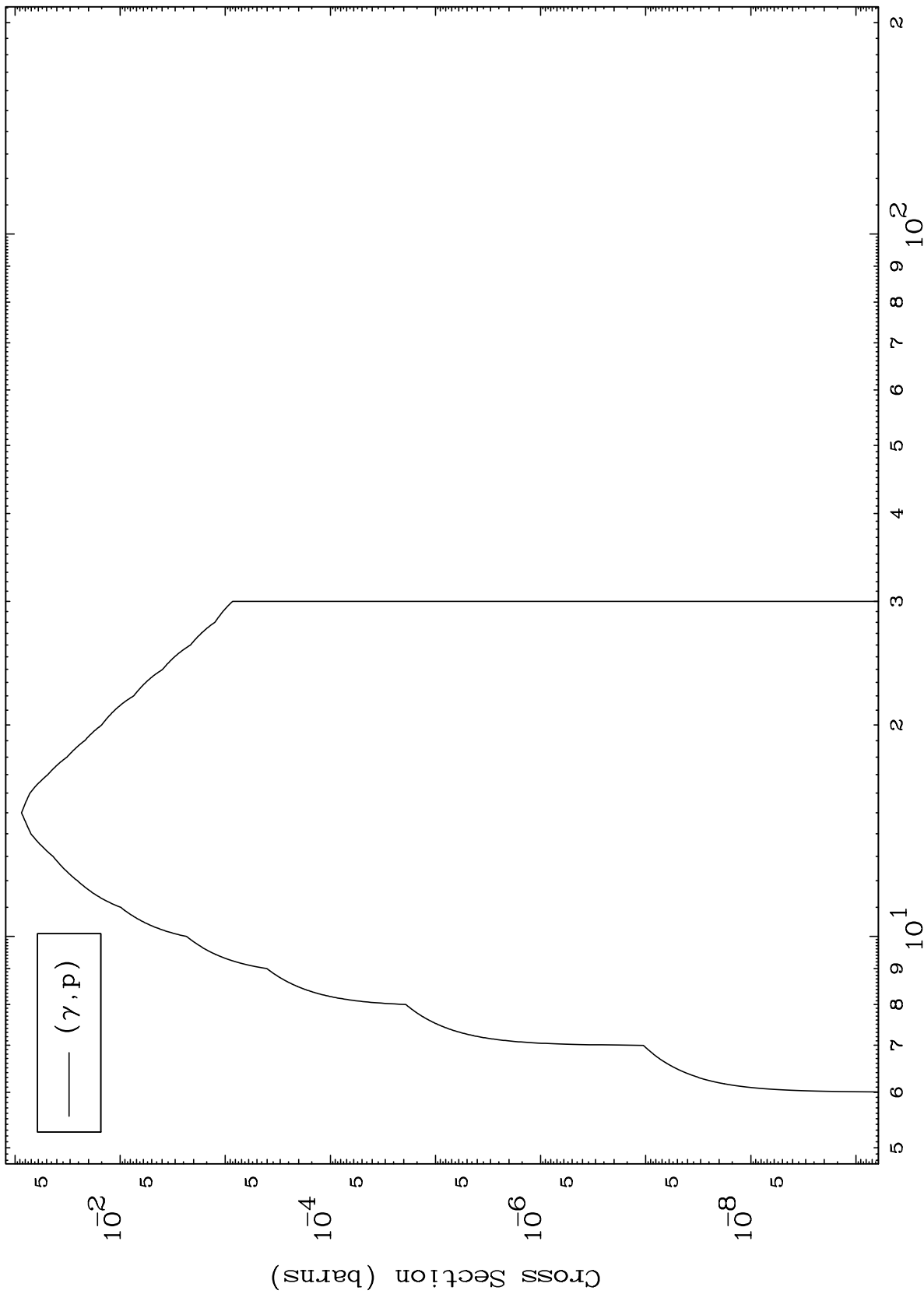
Incident Energy (MeV)

64-Gd-145

MAT 6404

64-Gd-145

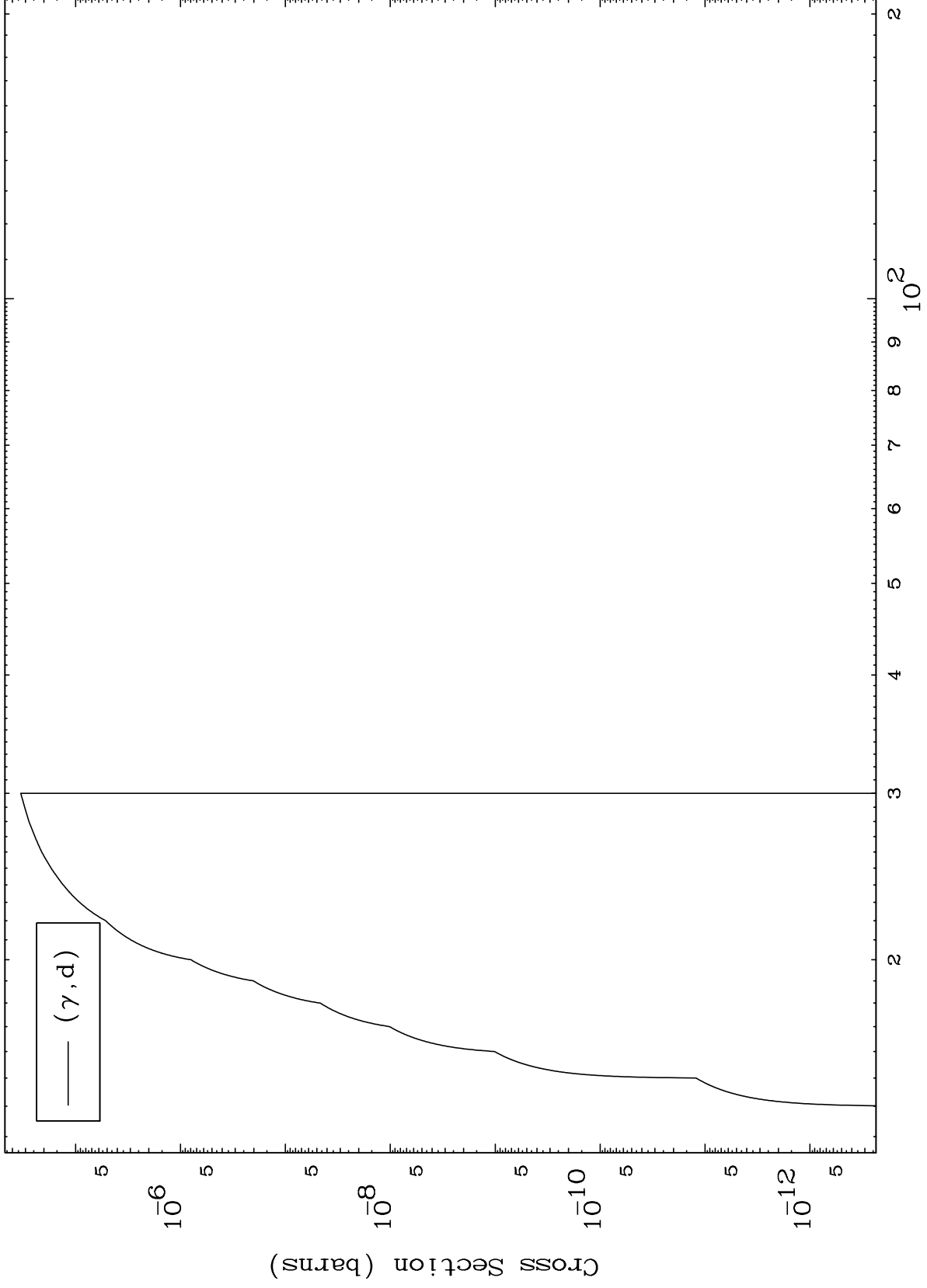
(γ, p) Levels
0 Kelvin Cross Sections



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(γ, d) Levels
0 Kelvin Cross Sections

64-Gd-145



7

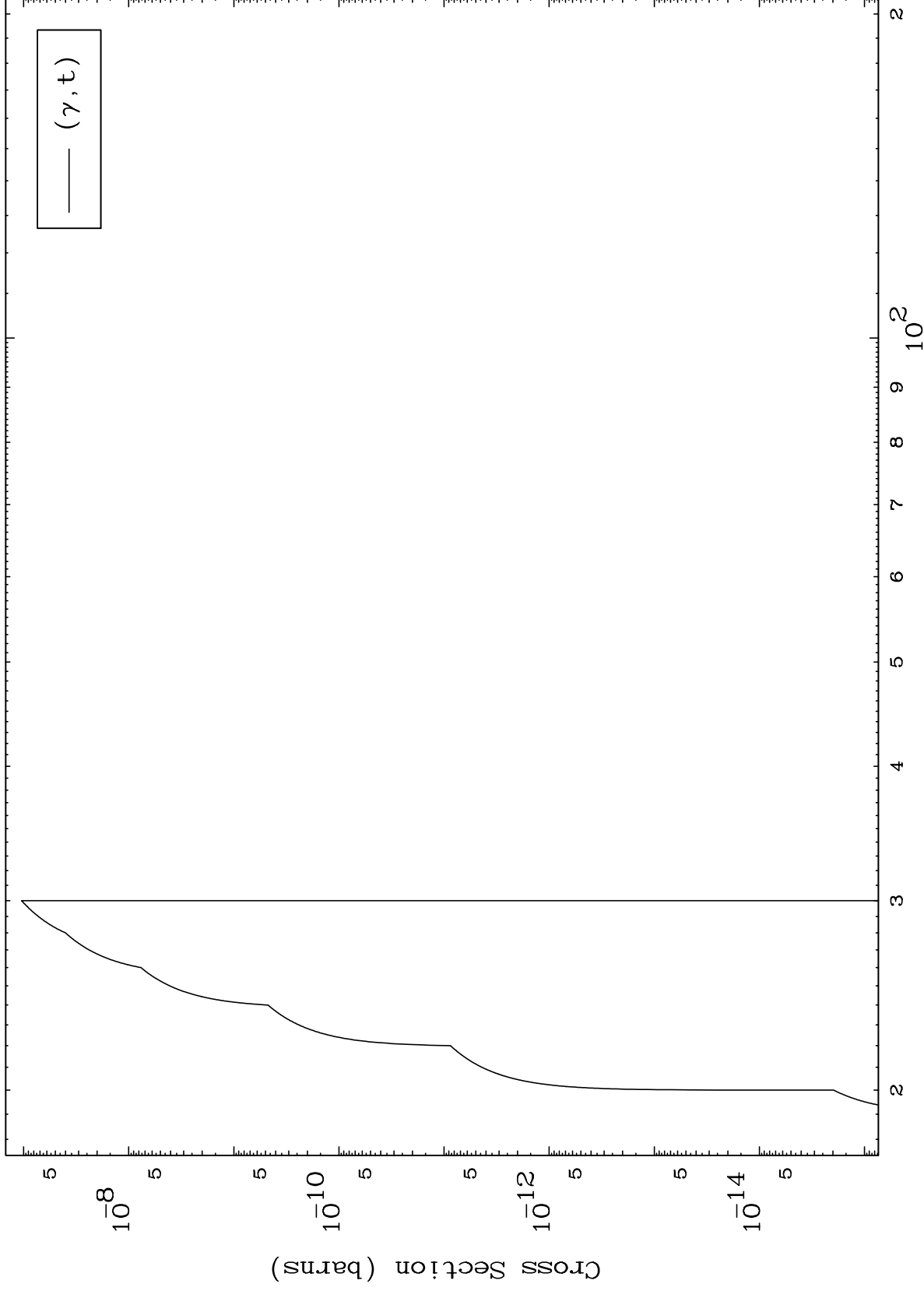
Incident Energy (MeV)

64-Gd-145

MAT 6404

(γ, t) Levels
0 Kelvin Cross Sections

64-Gd-145



8

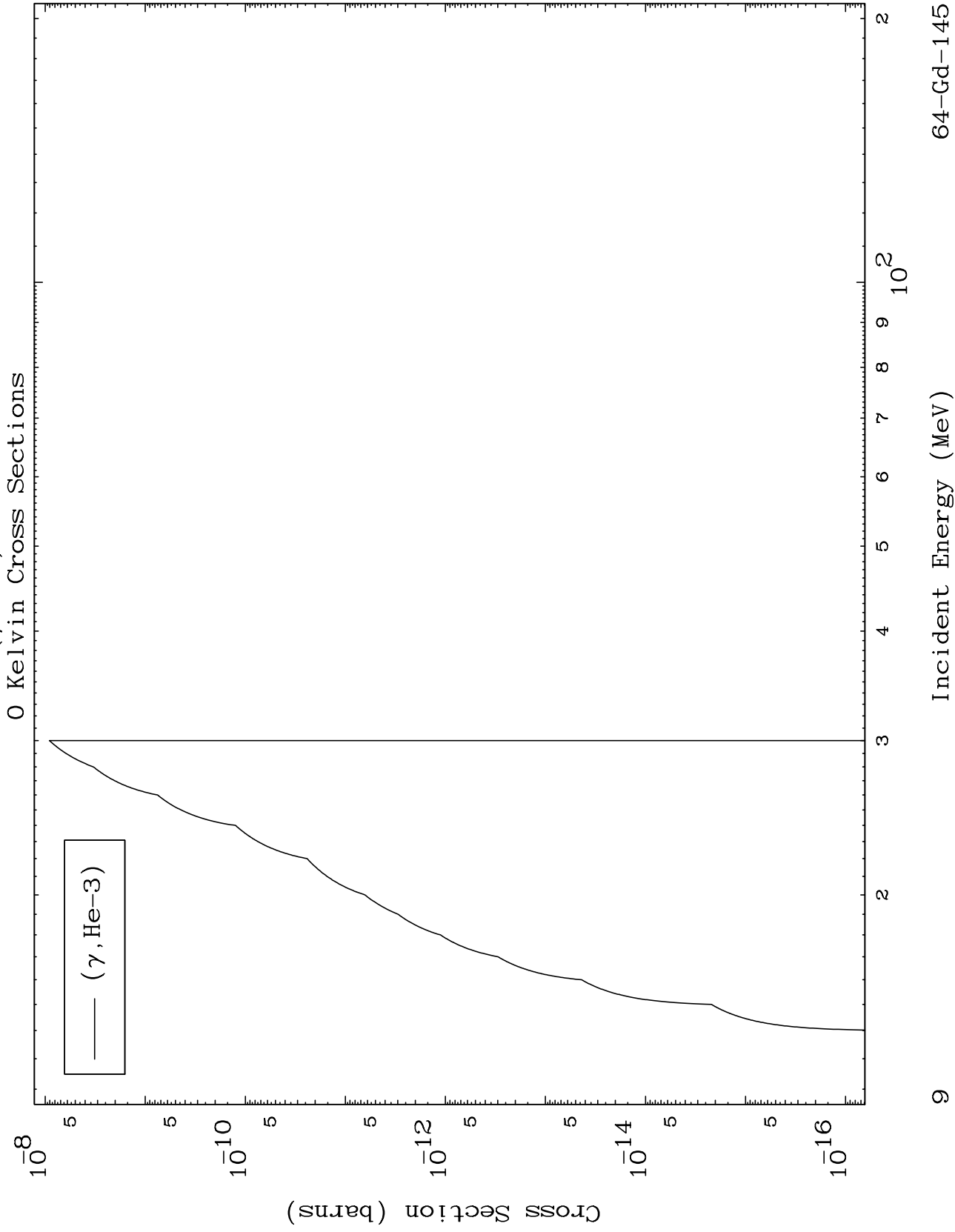
Incident Energy (MeV)

64-Gd-145

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($\gamma, \text{He}3$) Levels

64-Gd-145

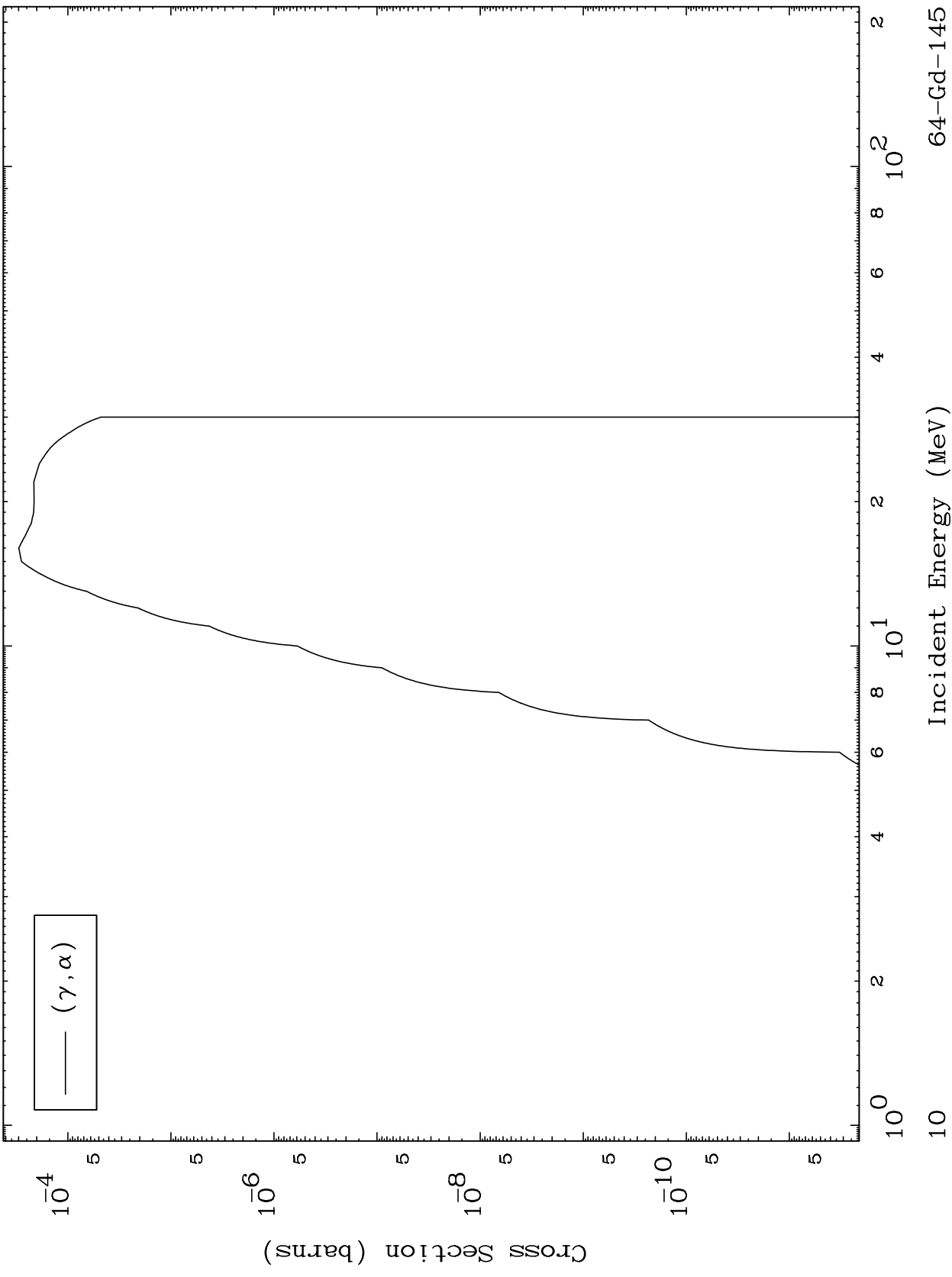


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(γ, α) Levels

64-Gd-145

0 Kelvin Cross Sections



(γ, α)

Incident Energy (MeV)

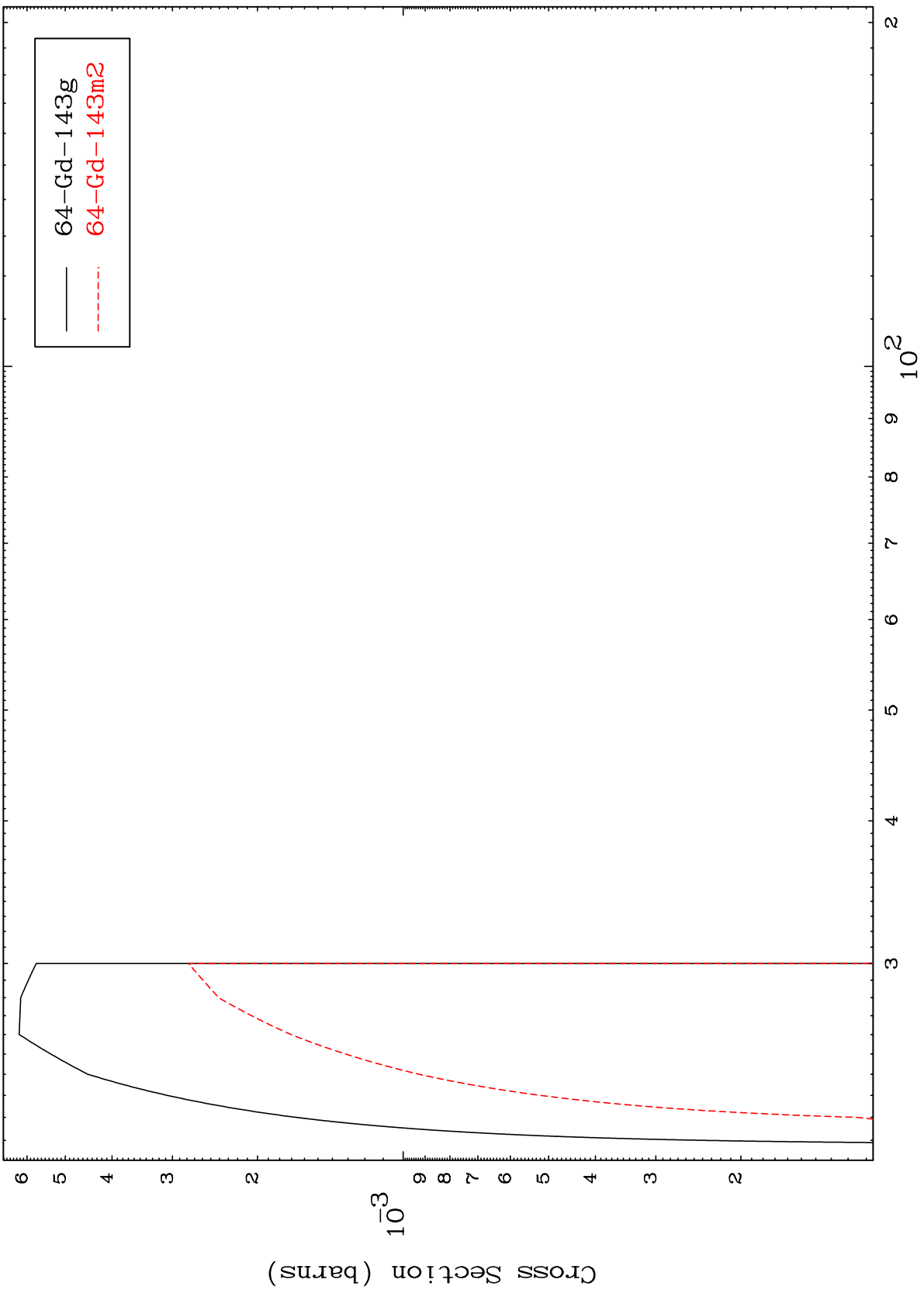
64-Gd-145

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64-Gd-145

($\gamma, 2n$)

Radionuclide Production Cross Section



11

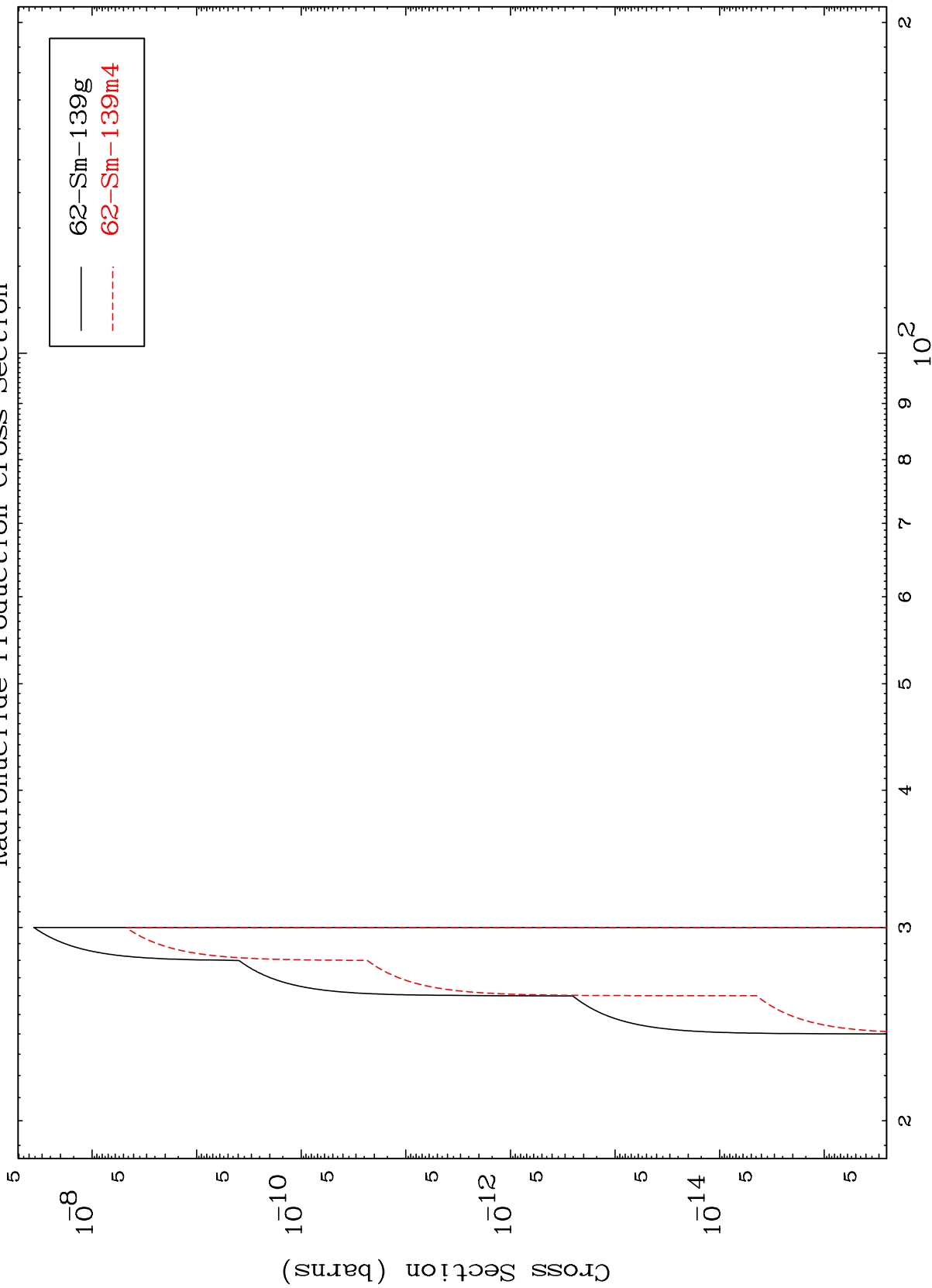
64-Gd-145

MAT 6404

$(\gamma, 2n) \alpha$

64-Gd-145

Radionuclide Production Cross Section



12

Incident Energy (MeV)

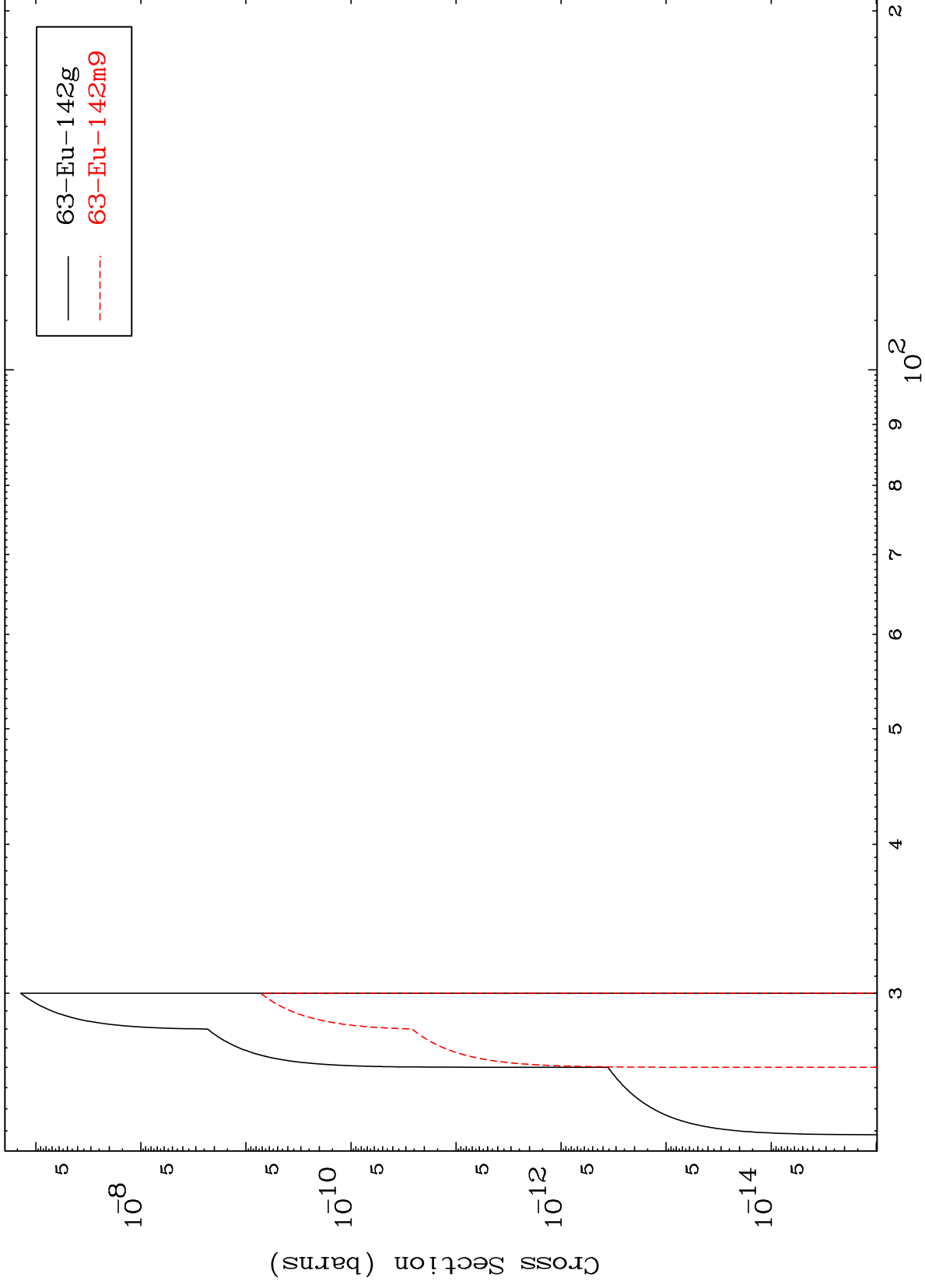
64-Gd-145

MAT 6404

(γ, n') d

64-Gd-145

Radionuclide Production Cross Section



13

Incident Energy (MeV)

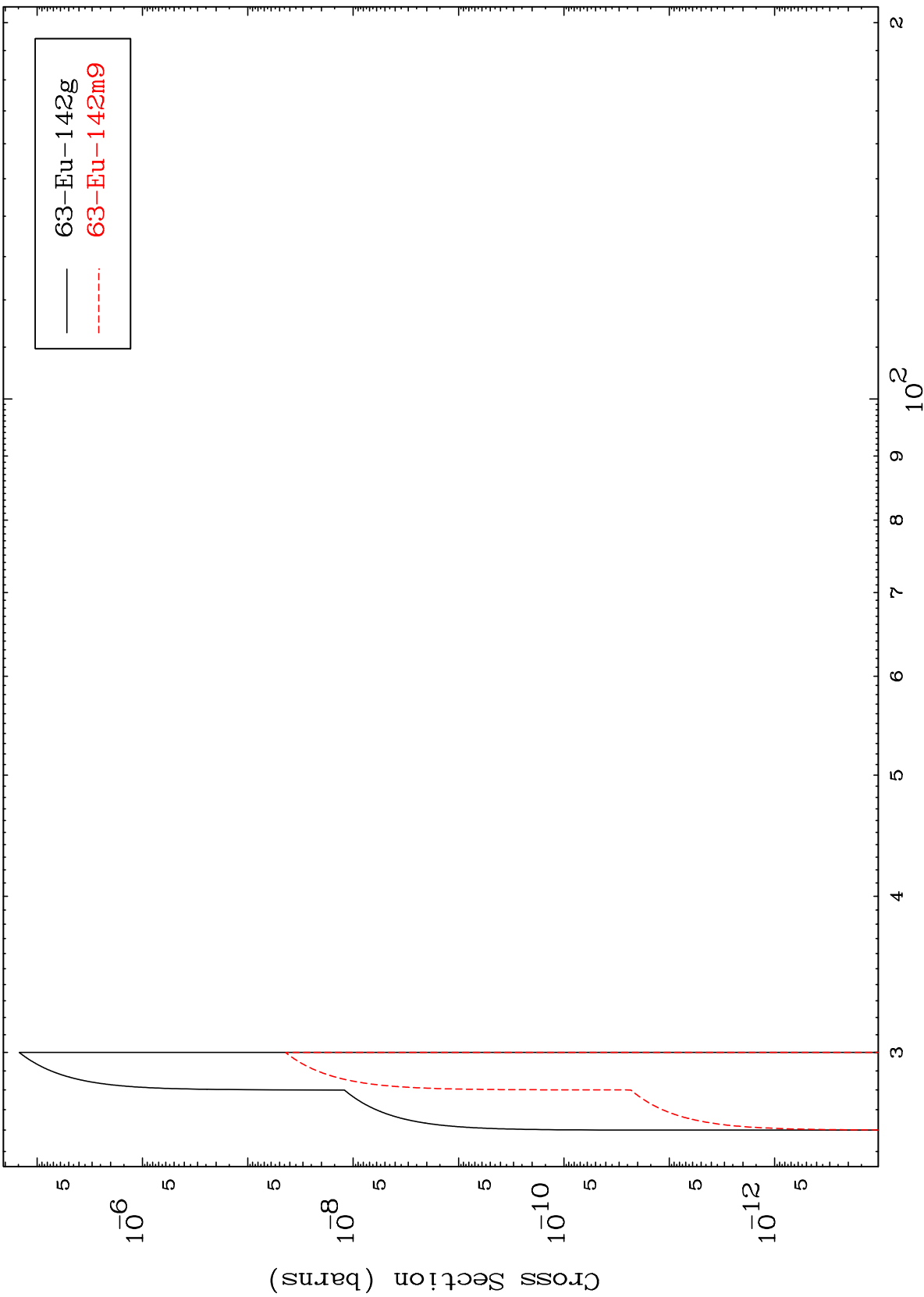
64-Gd-145

MAT 6404

($\gamma, 2n$) p

64-Gd-145

Radionuclide Production Cross Section



14

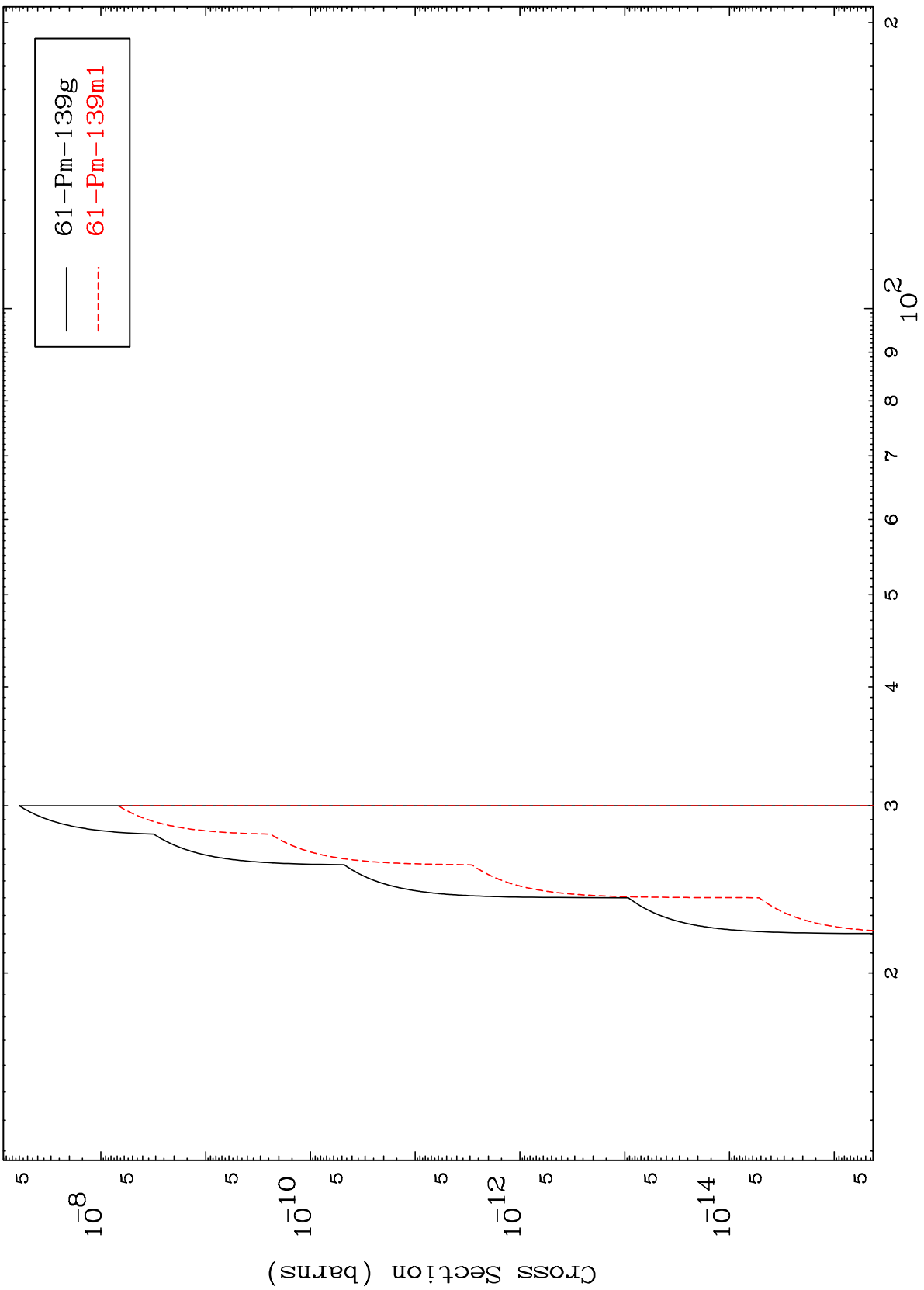
Incident Energy (MeV)

64-Gd-145

MAT 6404

64-Gd-145

(γ, n') p α
Radionuclide Production Cross Section



15

Incident Energy (MeV)

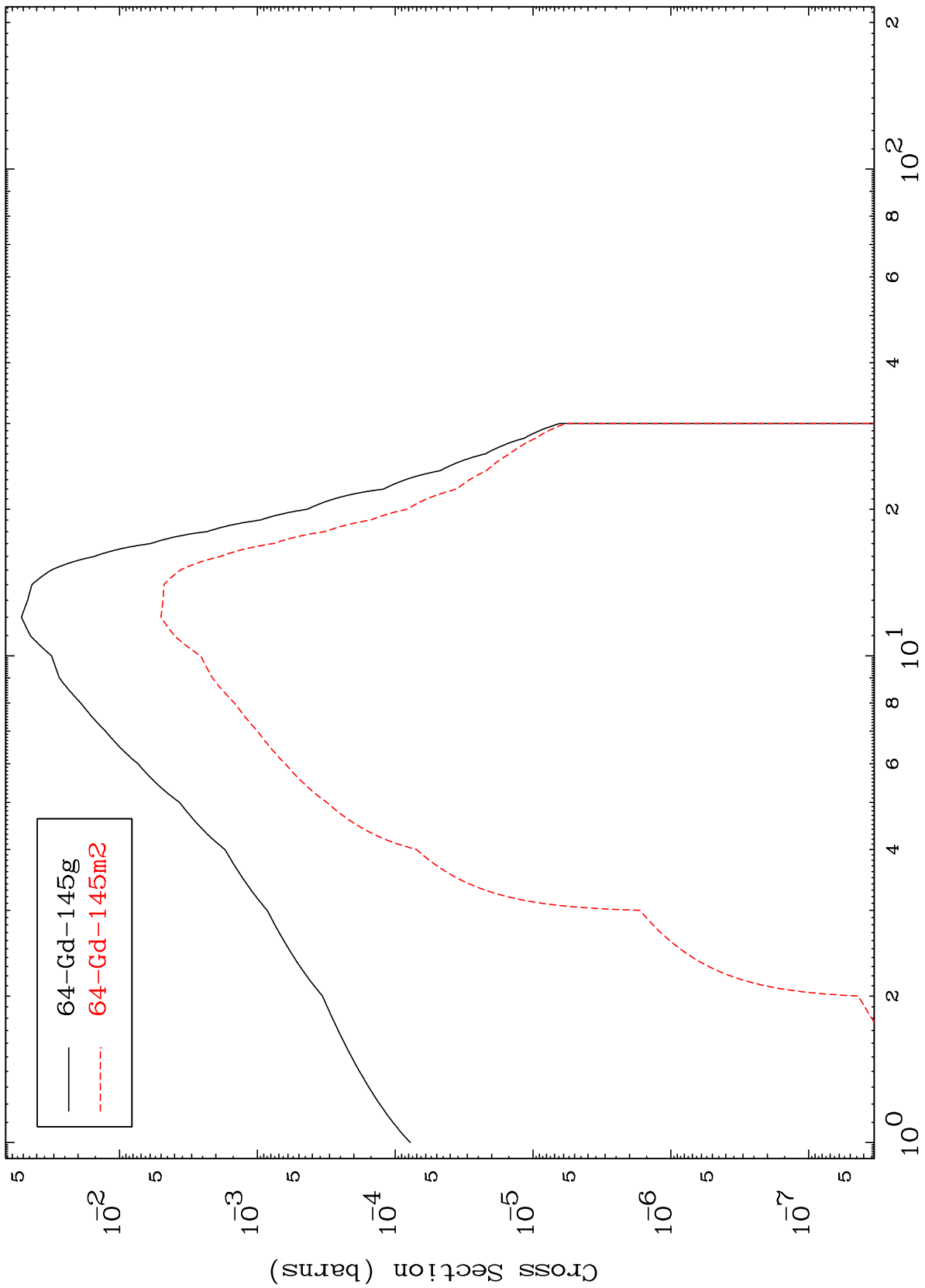
64-Gd-145

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64-Gd-145

Radionuclide Production Cross Section

(γ, γ)



64-Gd-145g
64-Gd-145m2

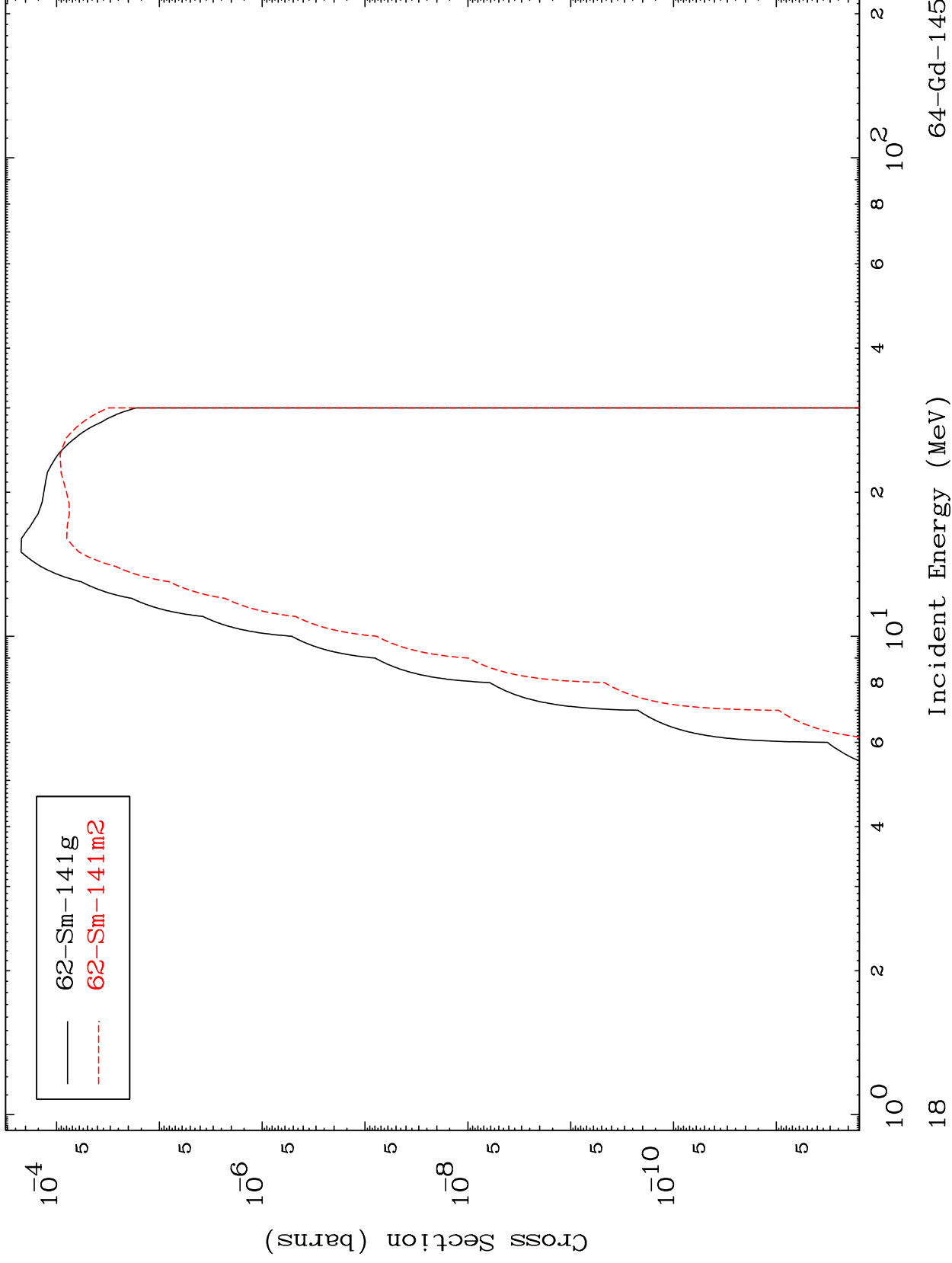
Incident Energy (MeV)

64-Gd-145

MAT 6404

64-Gd-145

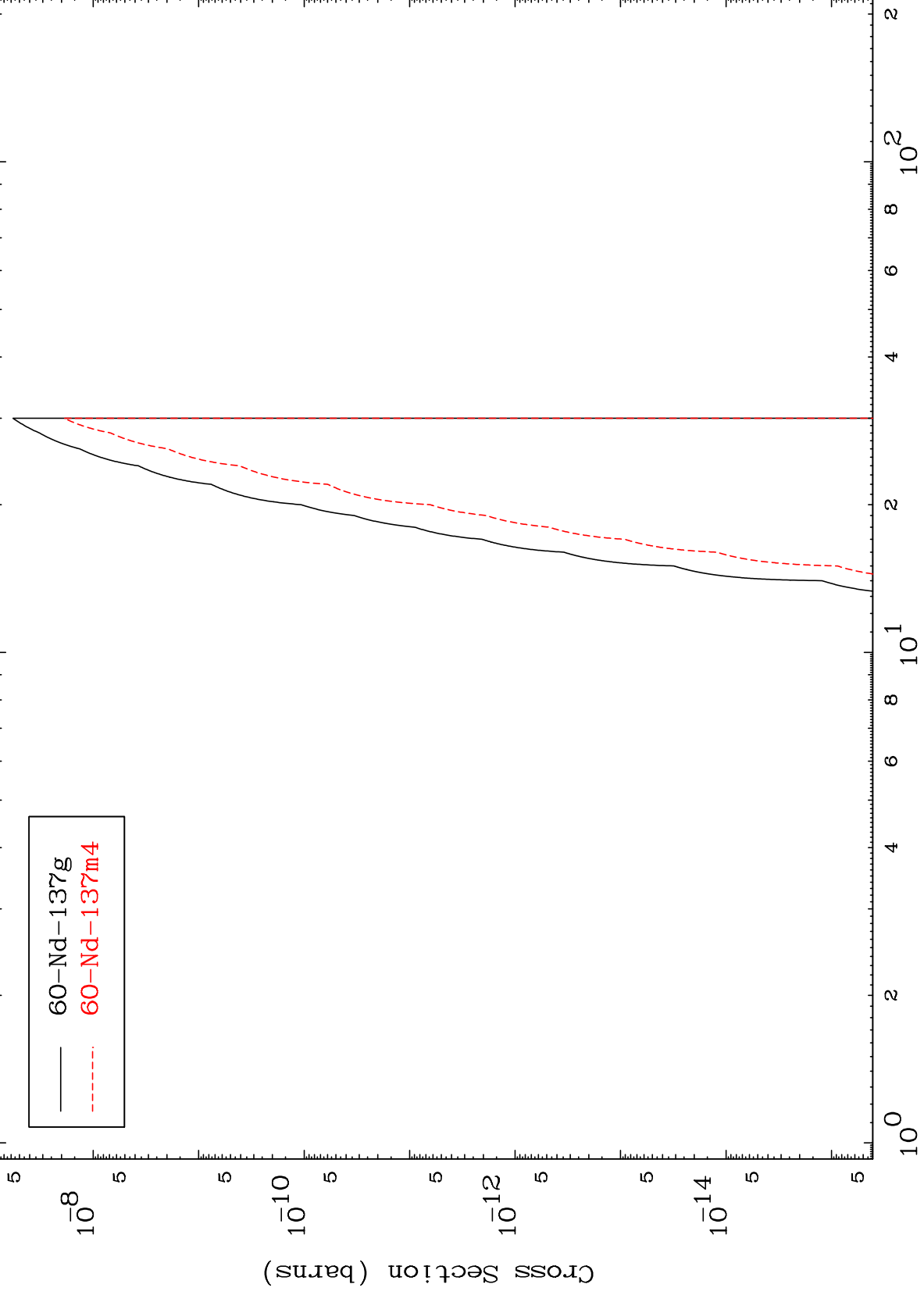
(γ, α)
Radionuclide Production Cross Section



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64-Gd-145

Radionuclide Production Cross Section
($\gamma, 2\alpha$)



60-Nd-137g
60-Nd-137m4

64-Gd-145

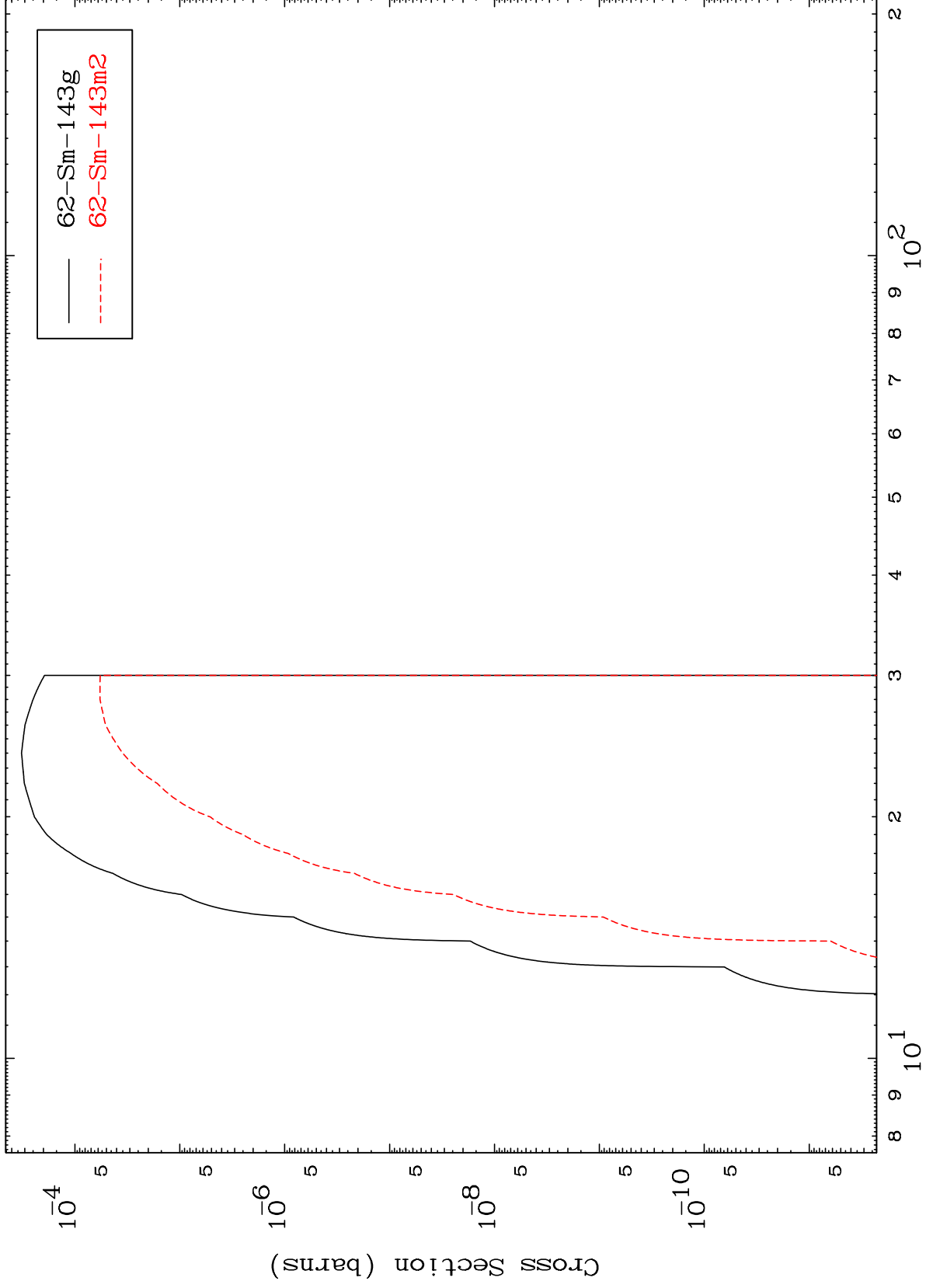
Incident Energy (MeV)

19

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64-Gd-145

($\gamma, 2p$)
Radionuclide Production Cross Section



20

Incident Energy (MeV)

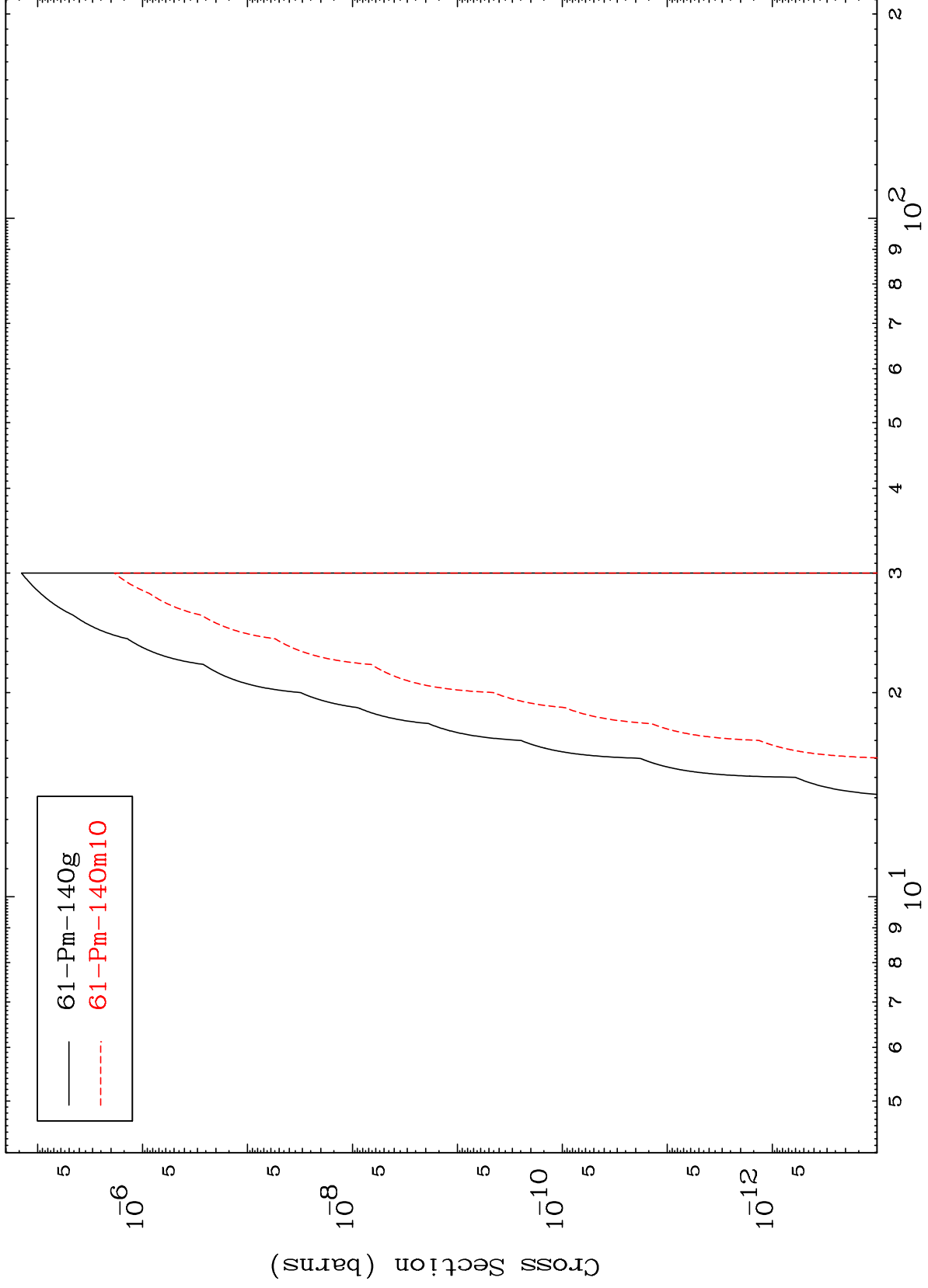
64-Gd-145

MAT 6404

$(\gamma, p) \alpha$

64-Gd-145

Radionuclide Production Cross Section



21

Incident Energy (MeV)

64-Gd-145