

Program EVALPLOT  
(Version 2015-2)

by

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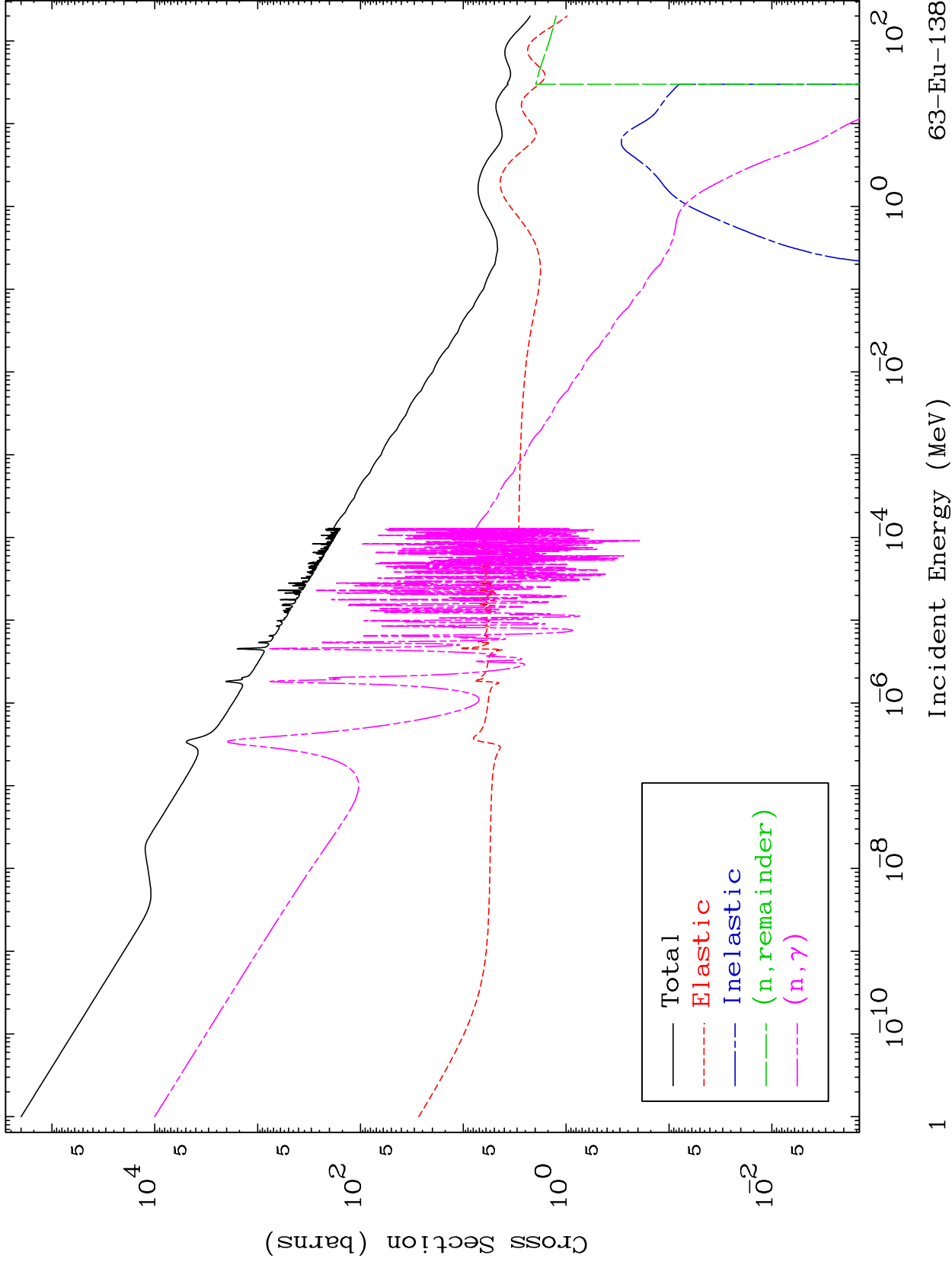
E.Mail:redcullen1@comcast.net  
Web:home.comcast.net/~redcullen1

Press Mouse Button to Start

MAT 6286

Major  
293 Kelvin Cross Sections

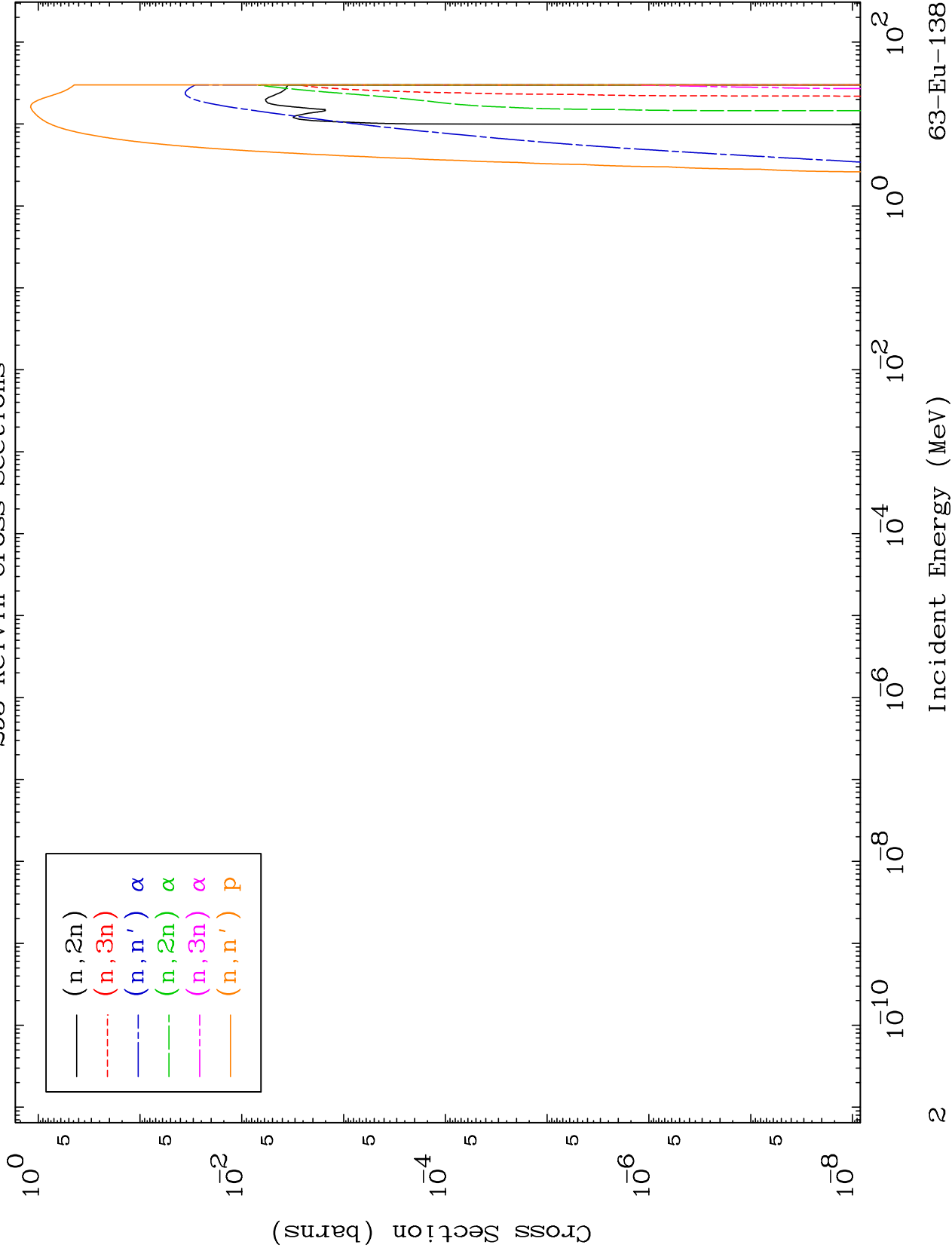
63-Eu-138



MAT 6286

Neutron Production  
293 Kelvin Cross Sections

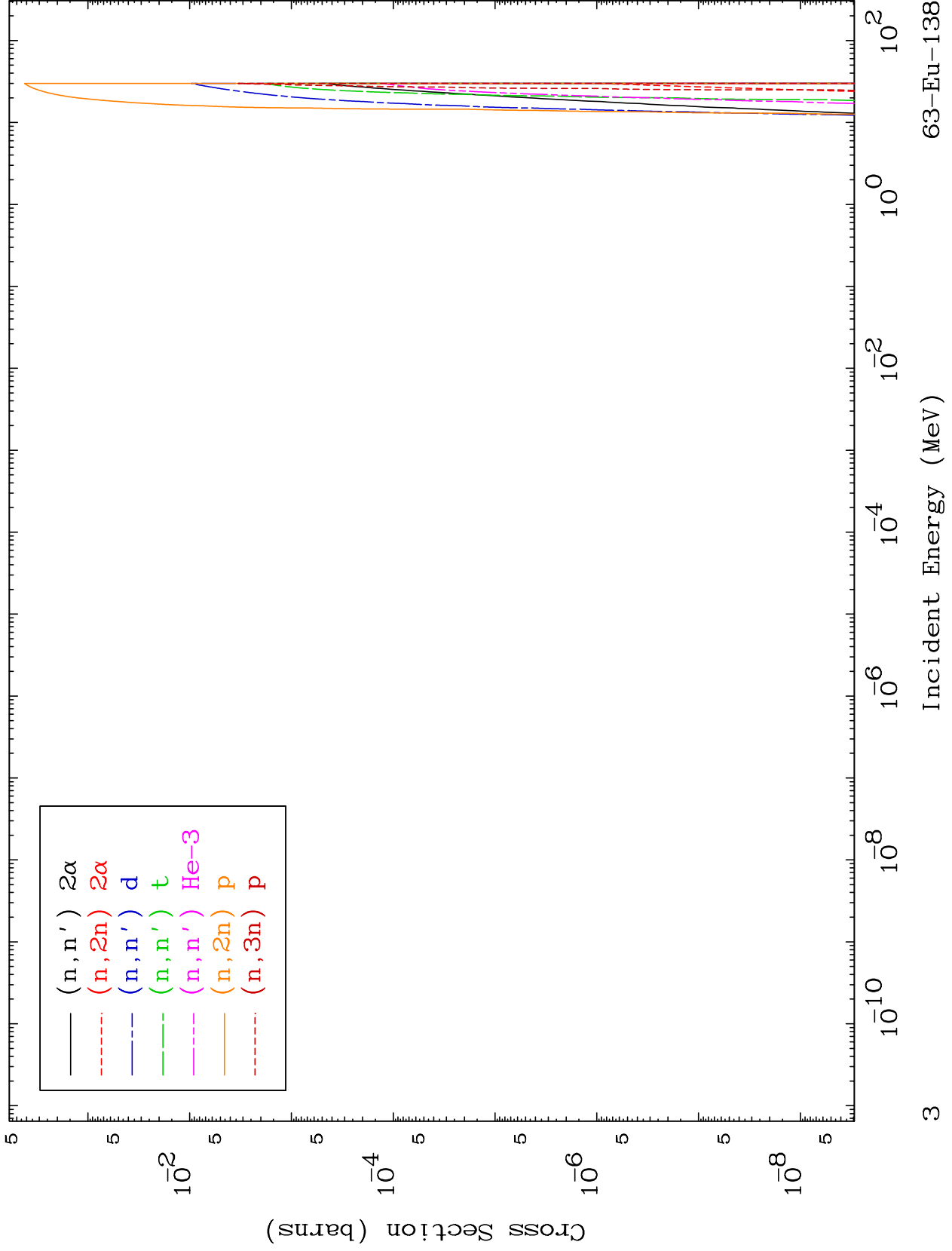
63-Eu-138



MAT 6286

Neutron Production  
293 Kelvin Cross Sections

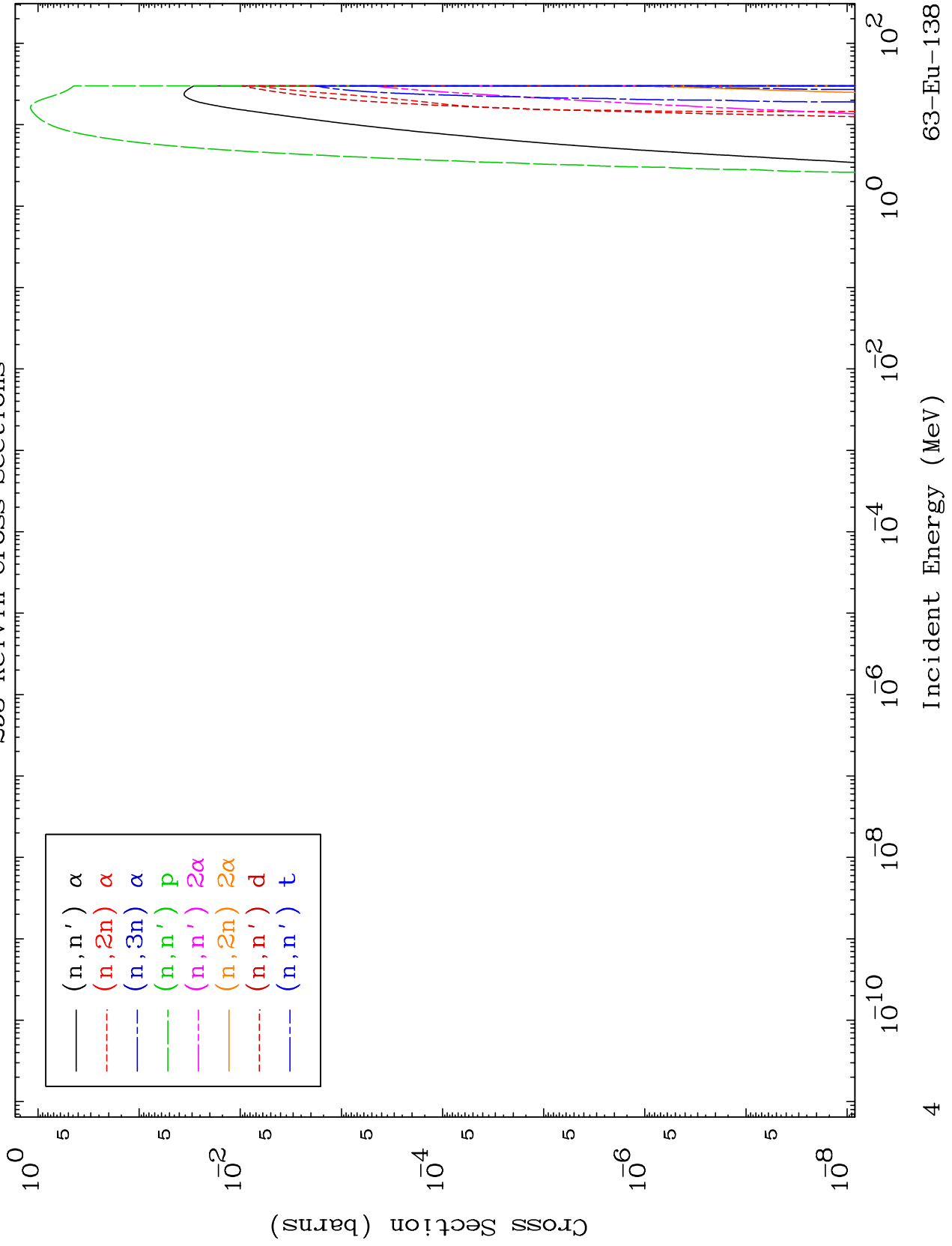
63-Eu-138

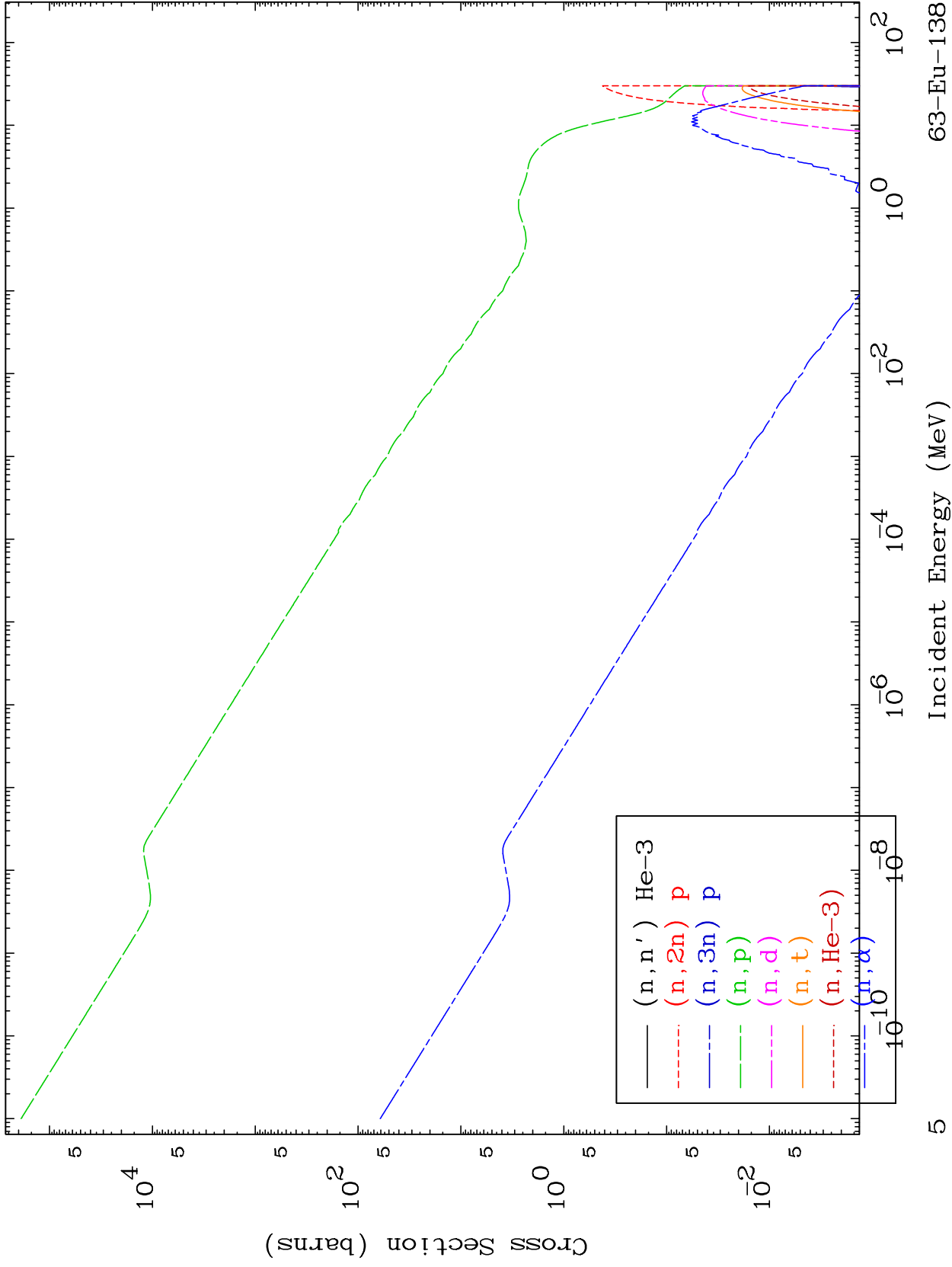


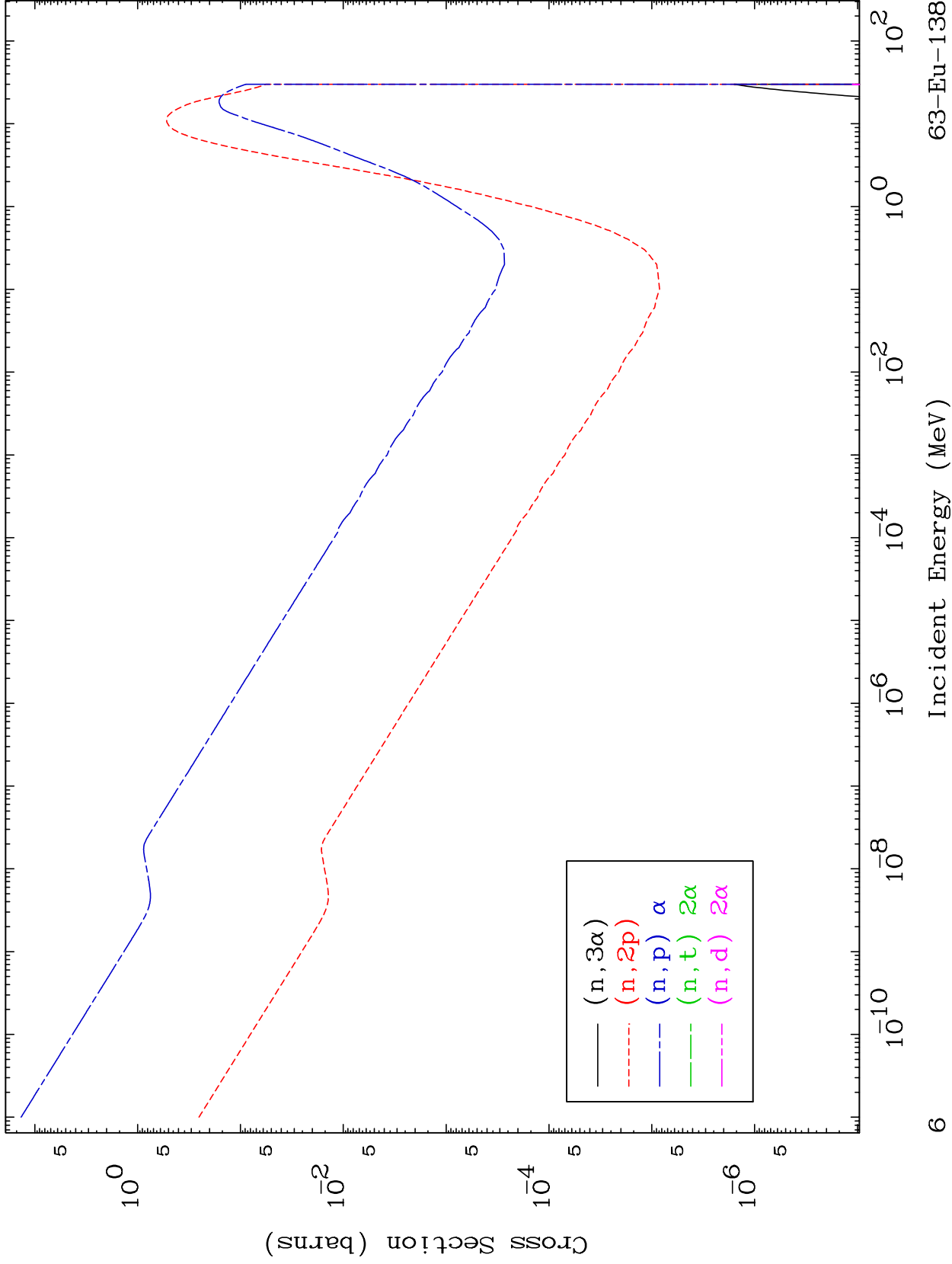
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Charged Particle  
293 Kelvin Cross Sections

63-Eu-138



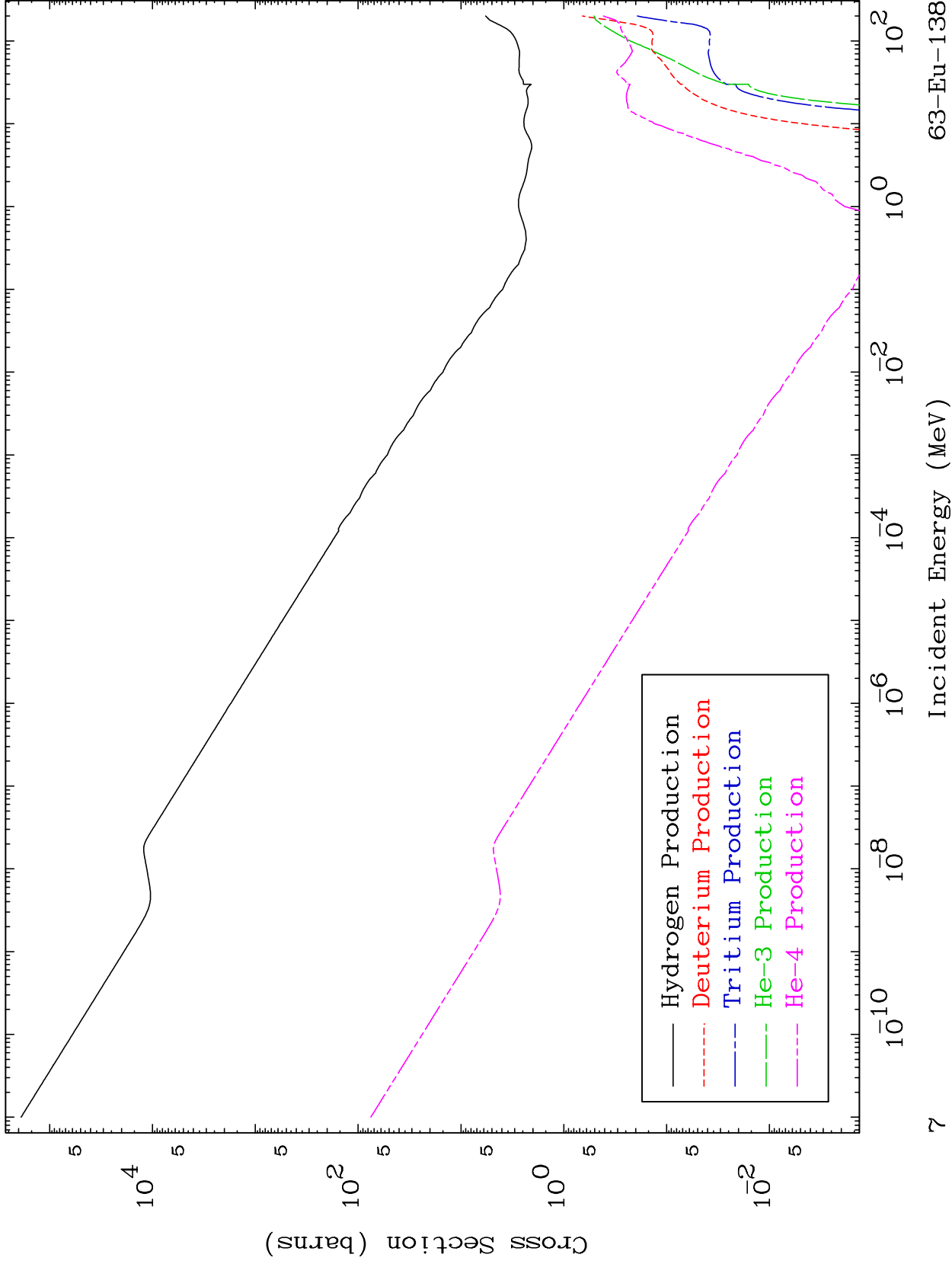




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Particle Production  
293 Kelvin Cross Sections

63-Eu-138

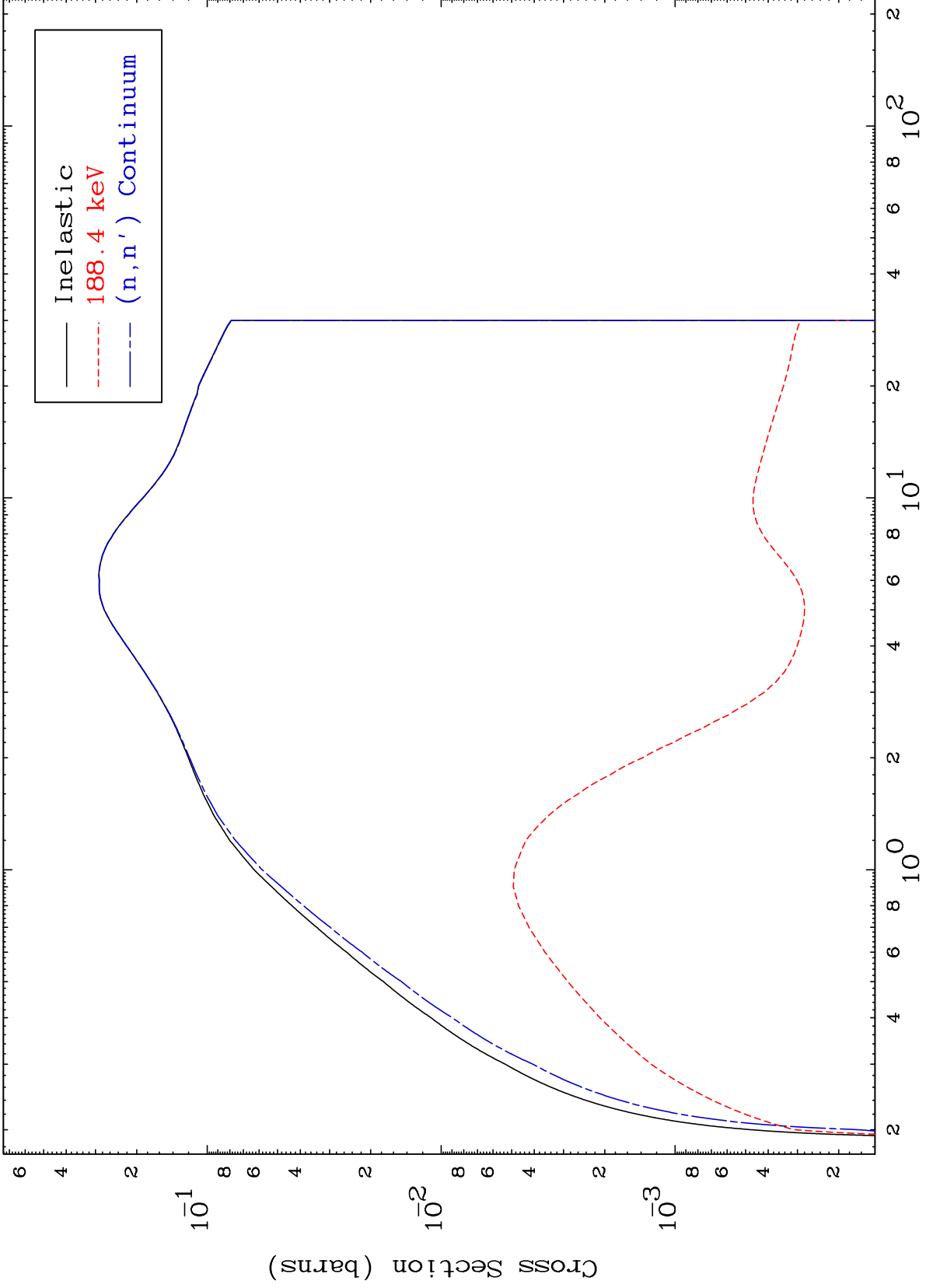




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(n,n') Level  
293 Kelvin Cross Sections

63-Eu-138



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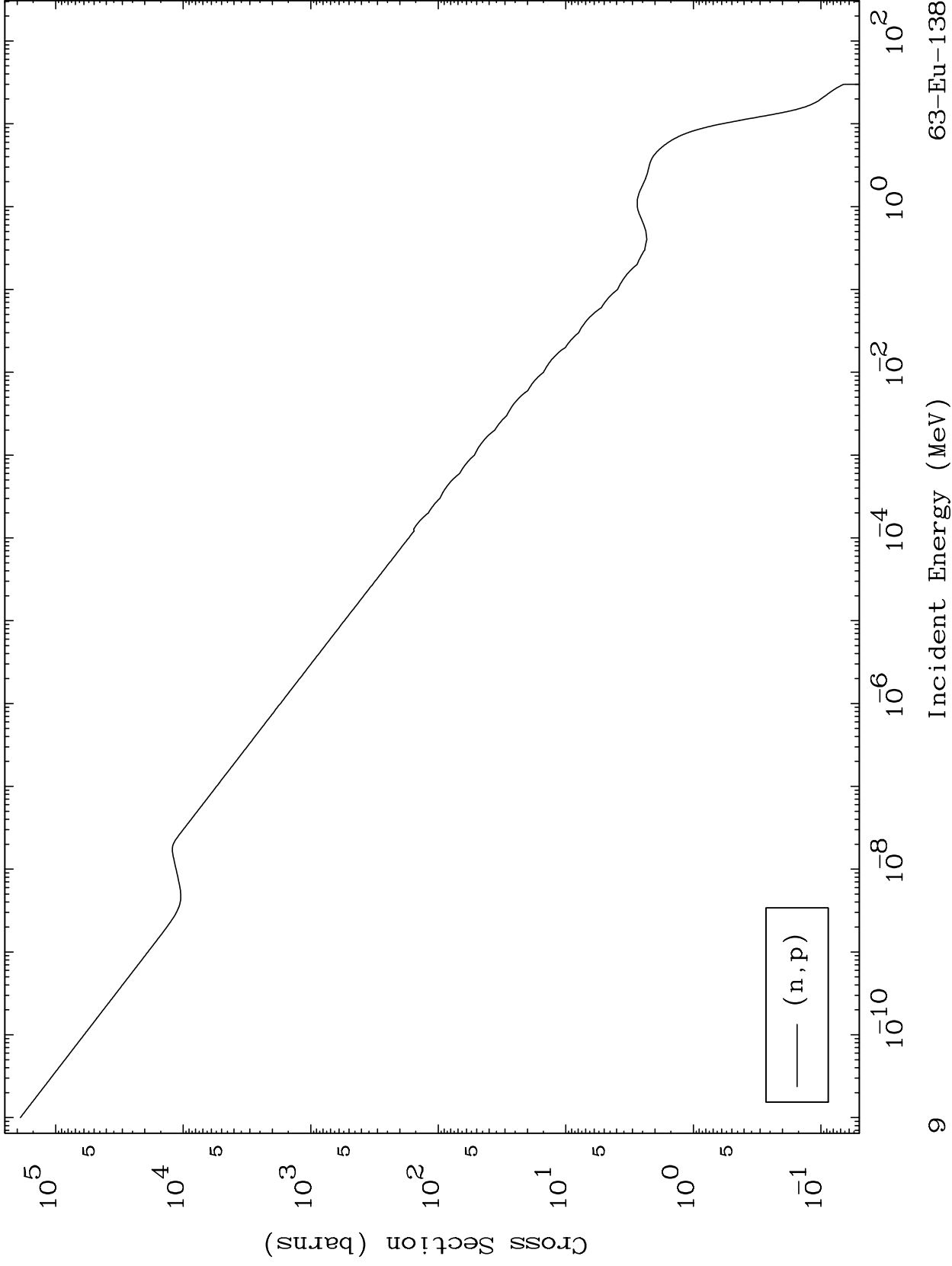
Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,p) Levels  
293 Kelvin Cross Sections

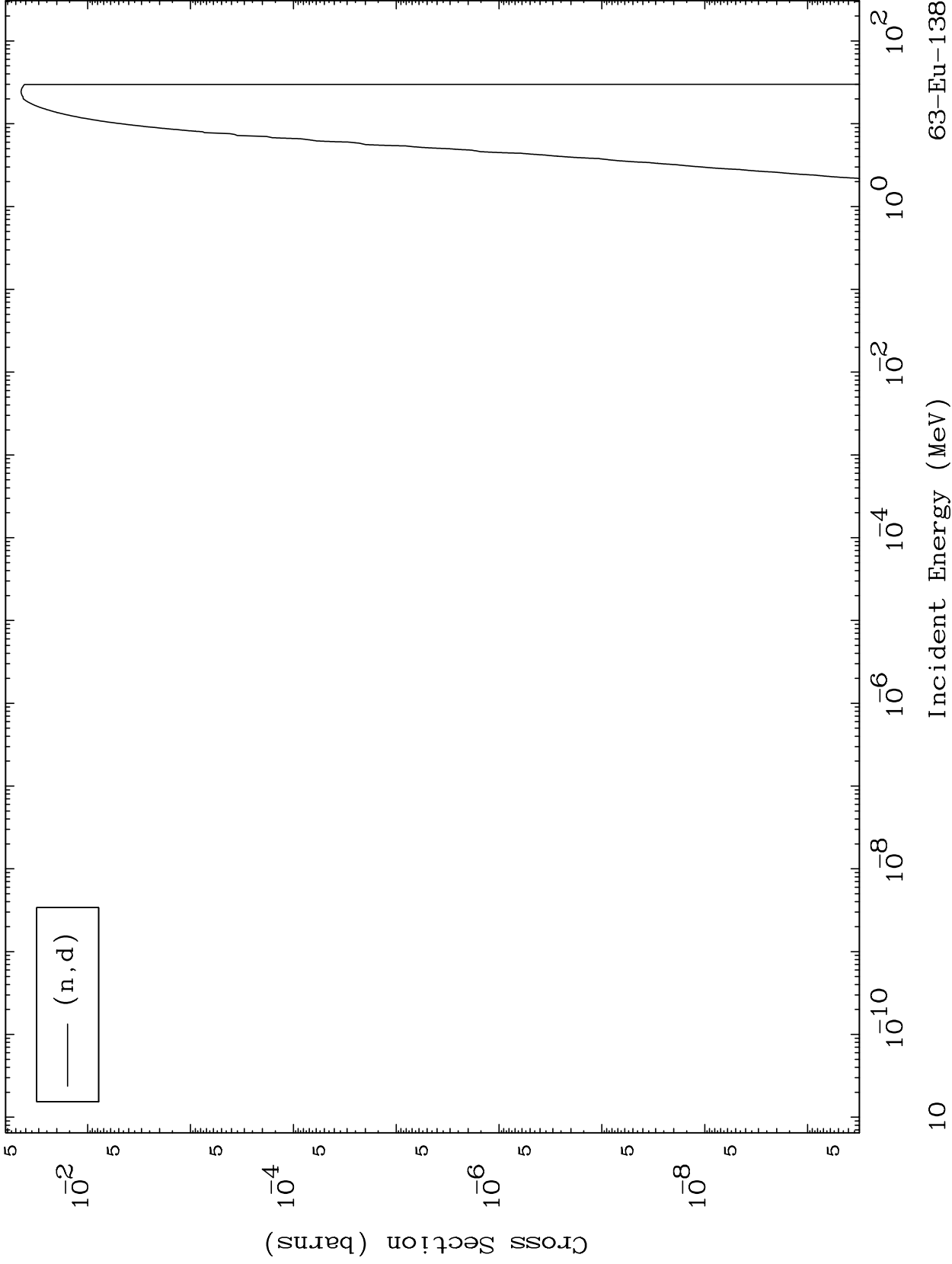
63-Eu-138



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(n,d) Levels  
293 Kelvin Cross Sections

63-Eu-138



10

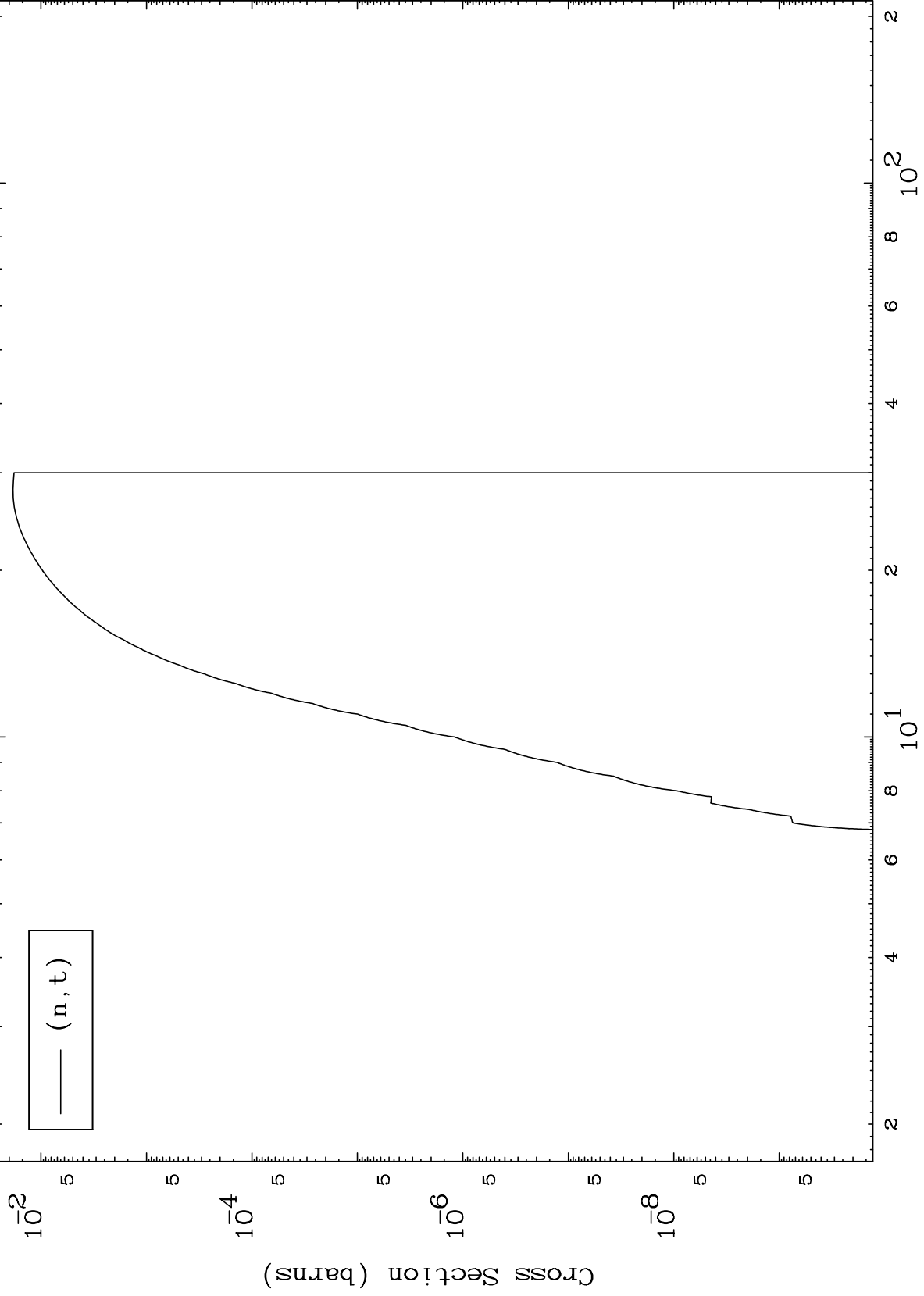
Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,t) Levels  
293 Kelvin Cross Sections

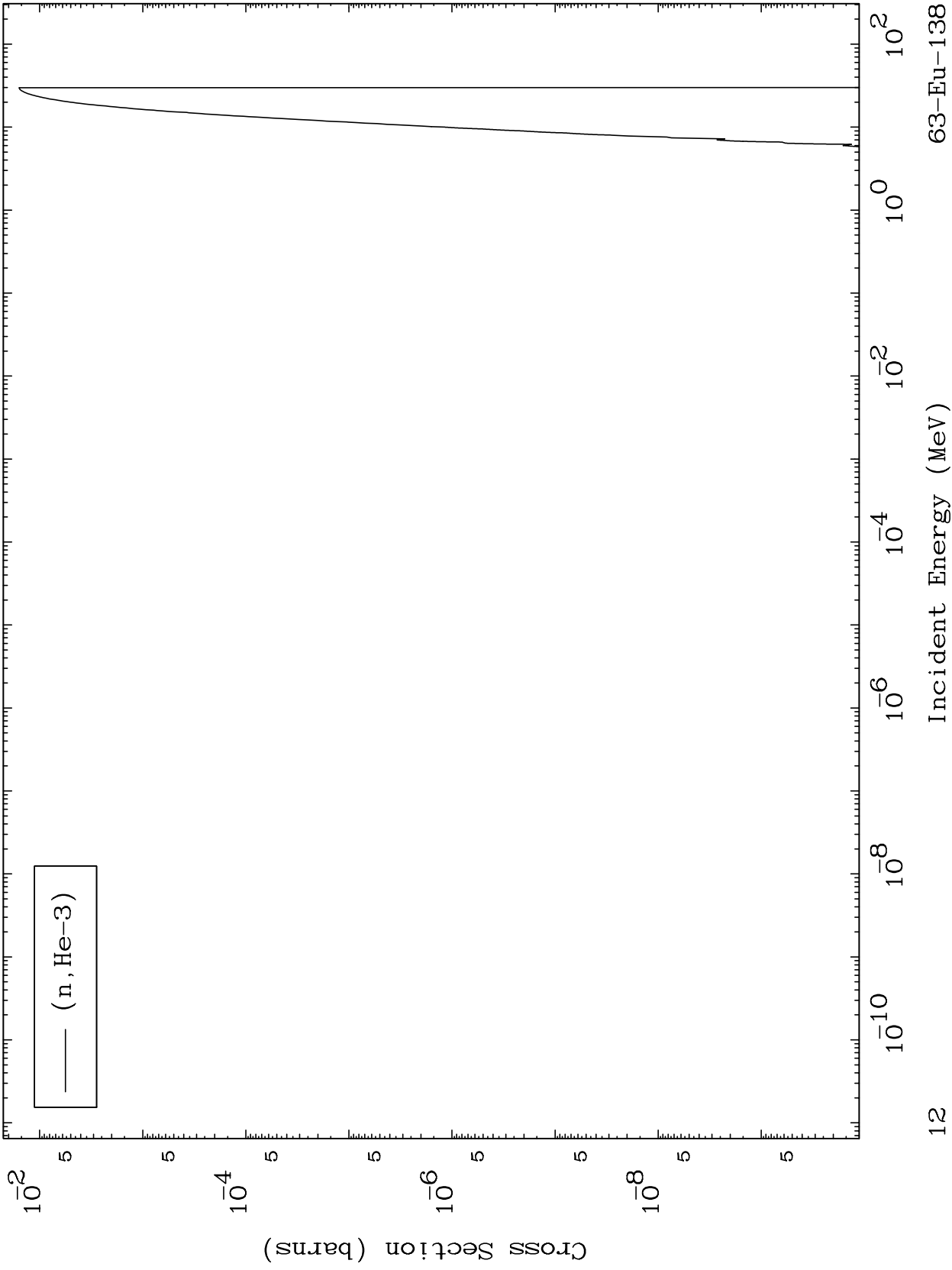
63-Eu-138



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(n,He3) Levels  
293 Kelvin Cross Sections

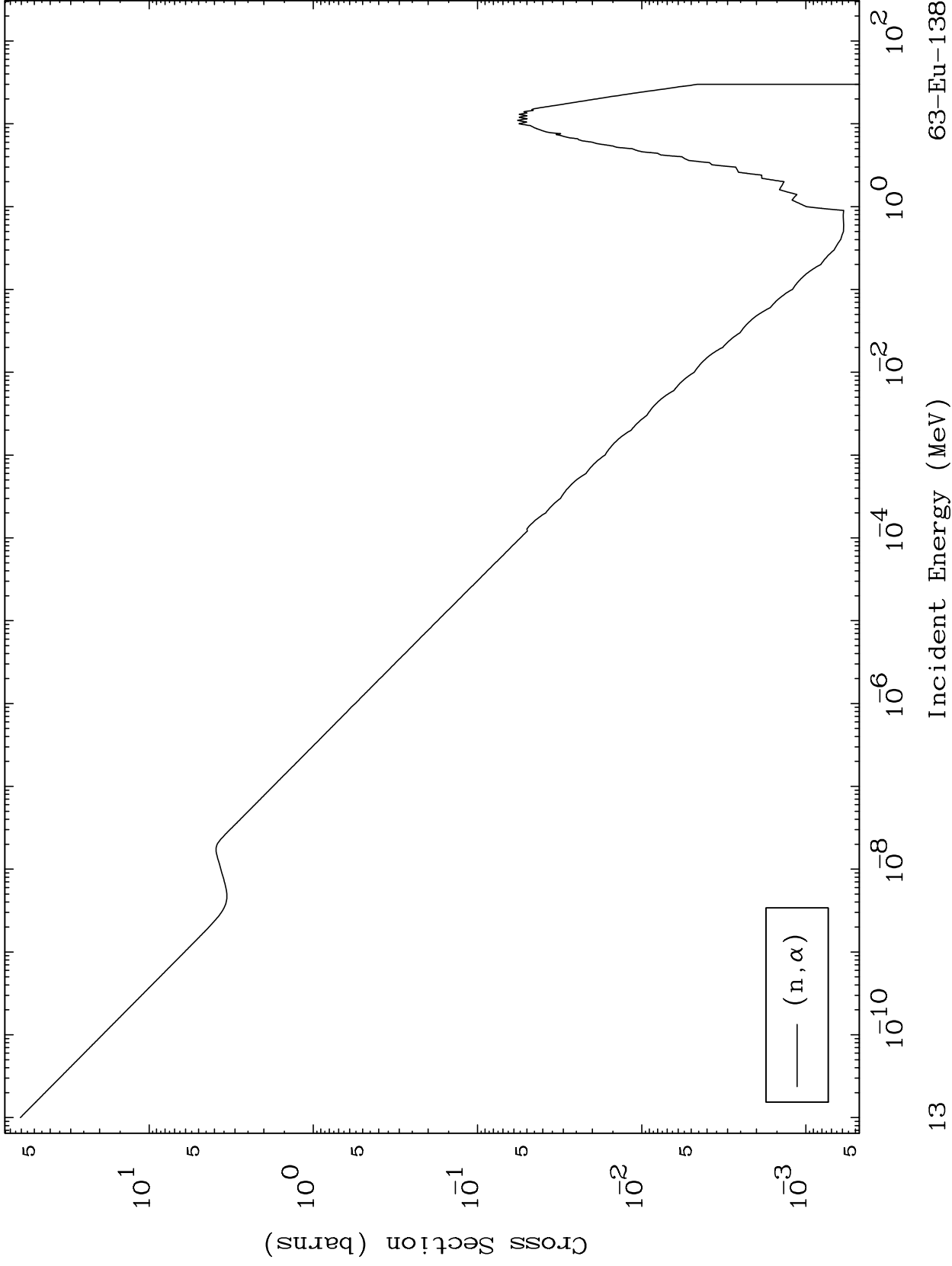
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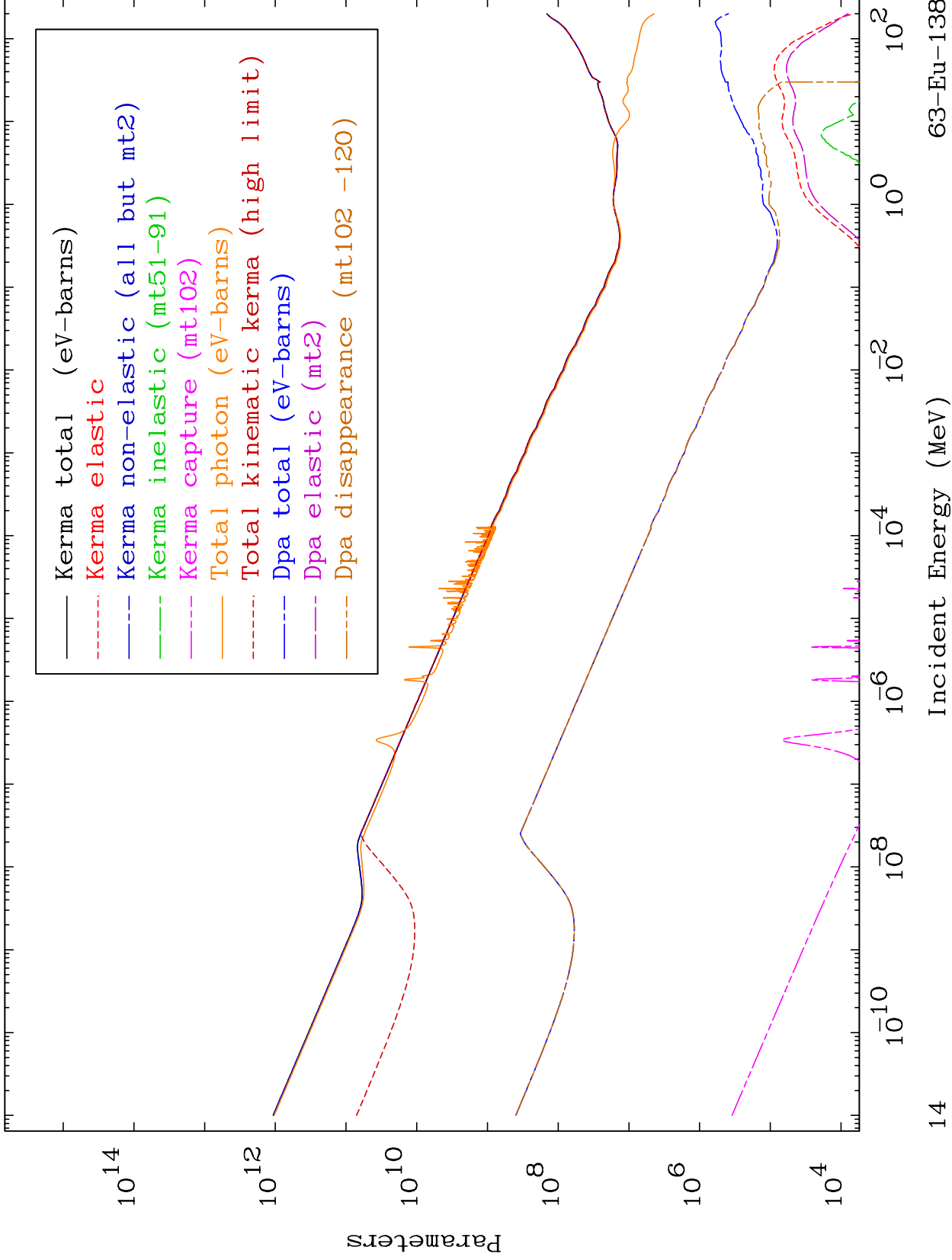


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(n,  $\alpha$ ) Levels  
293 Kelvin Cross Sections

63-Eu-138

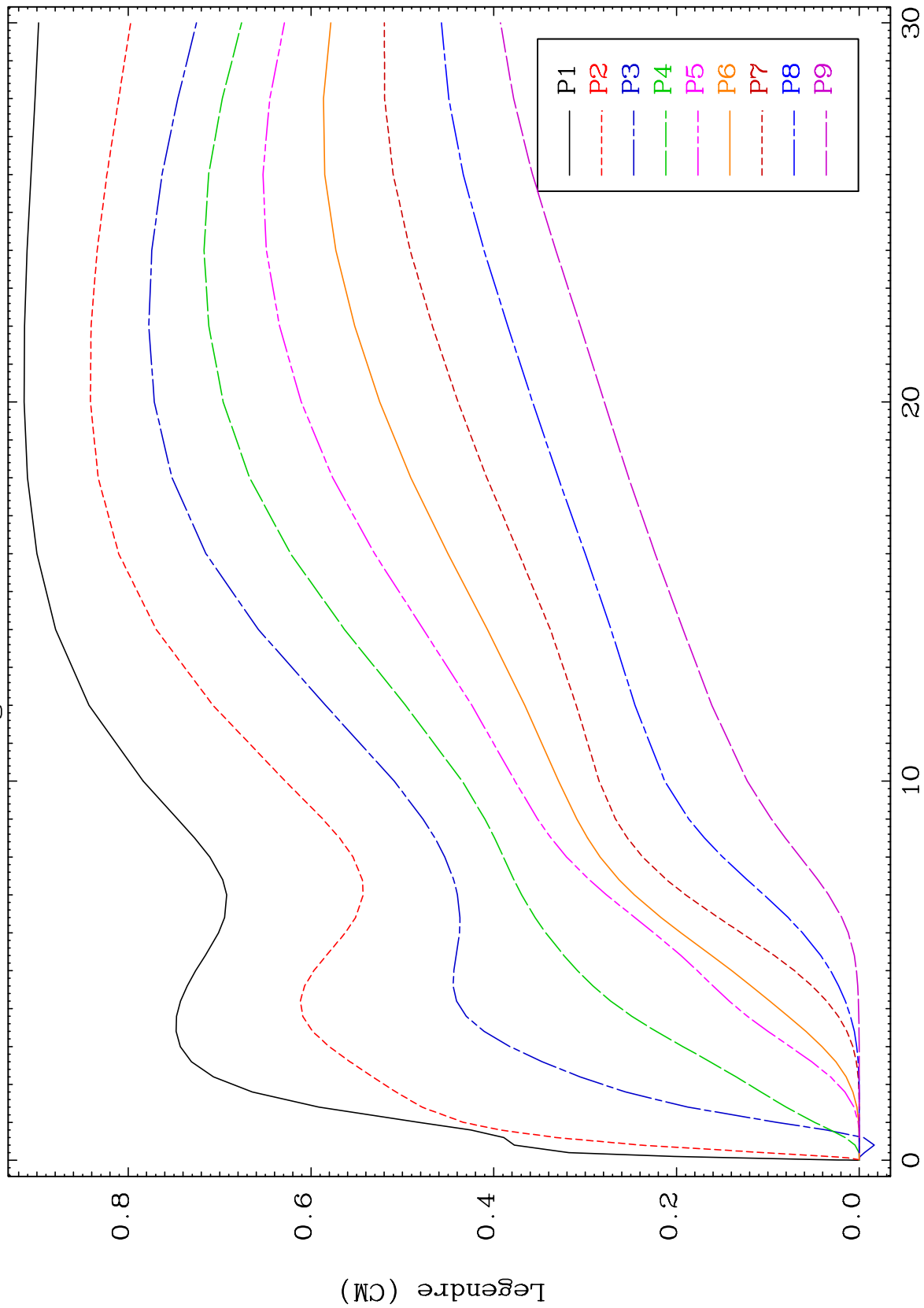




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Elastic Legendre Coefficients

63-Eu-138



15

Incident Energy (MeV)

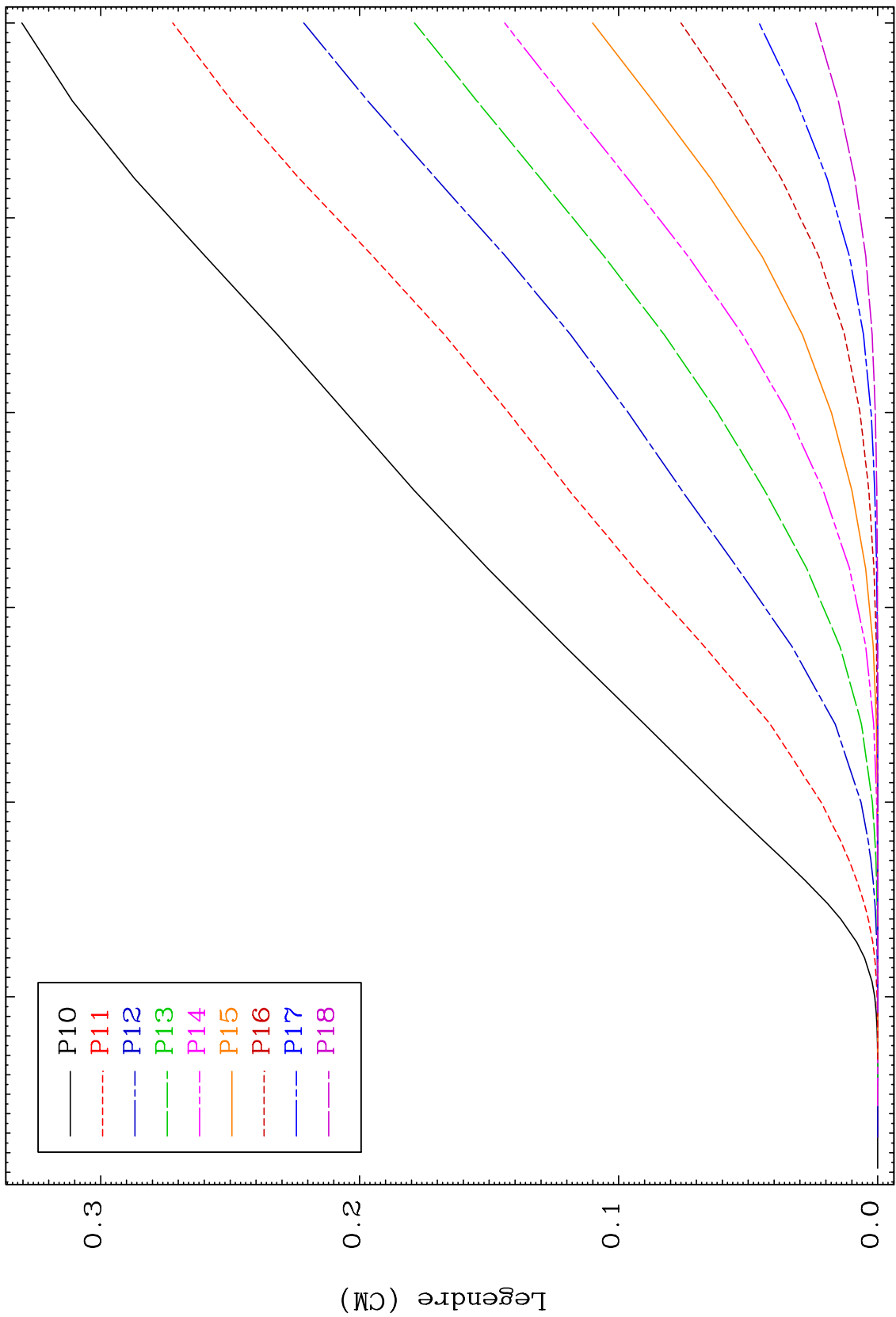
63-Eu-138



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Elastic Legendre Coefficients

63-Eu-138



16

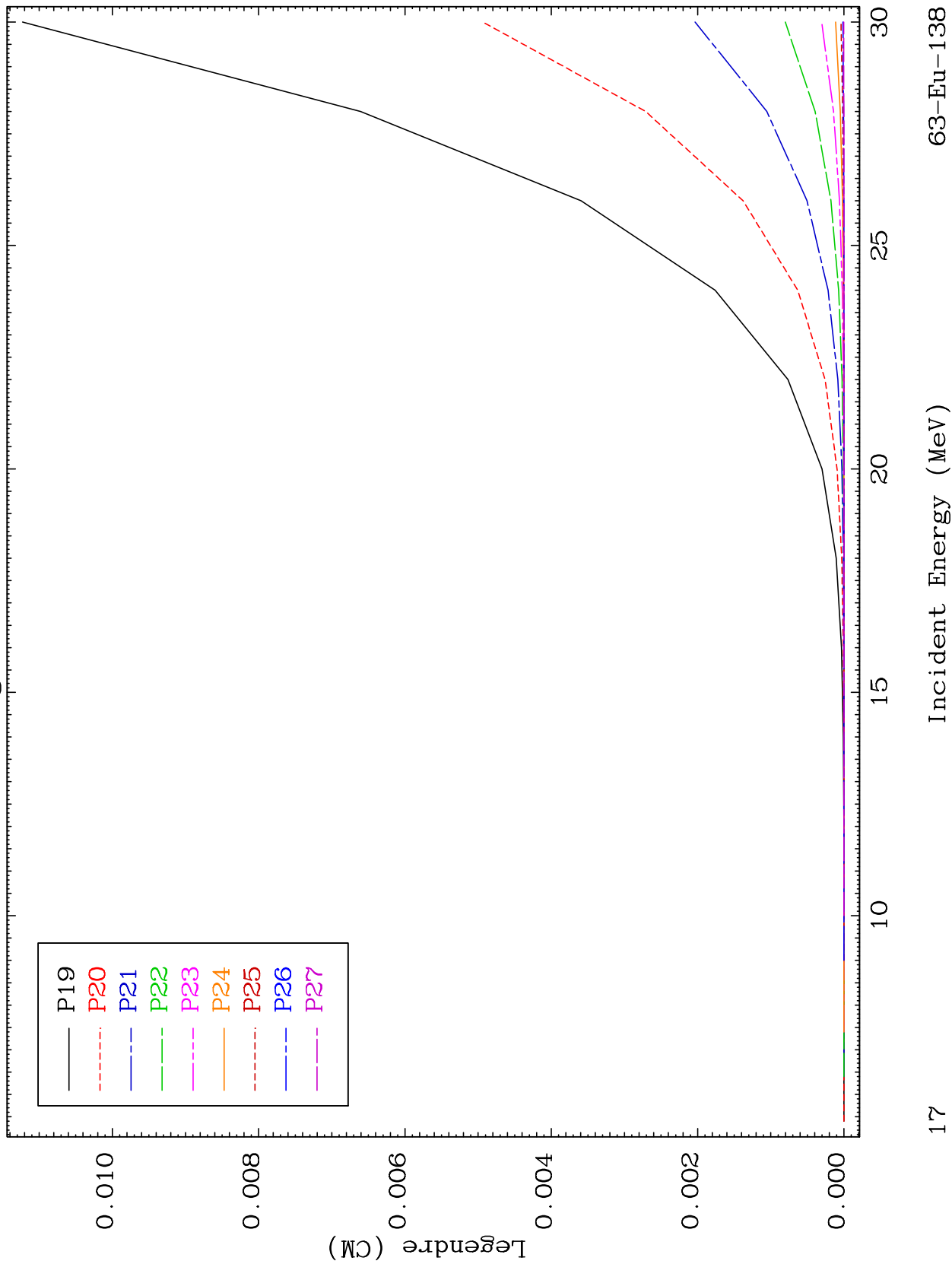
Incident Energy (MeV)

63-Eu-138

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### Elastic Legendre Coefficients

63-Eu-138



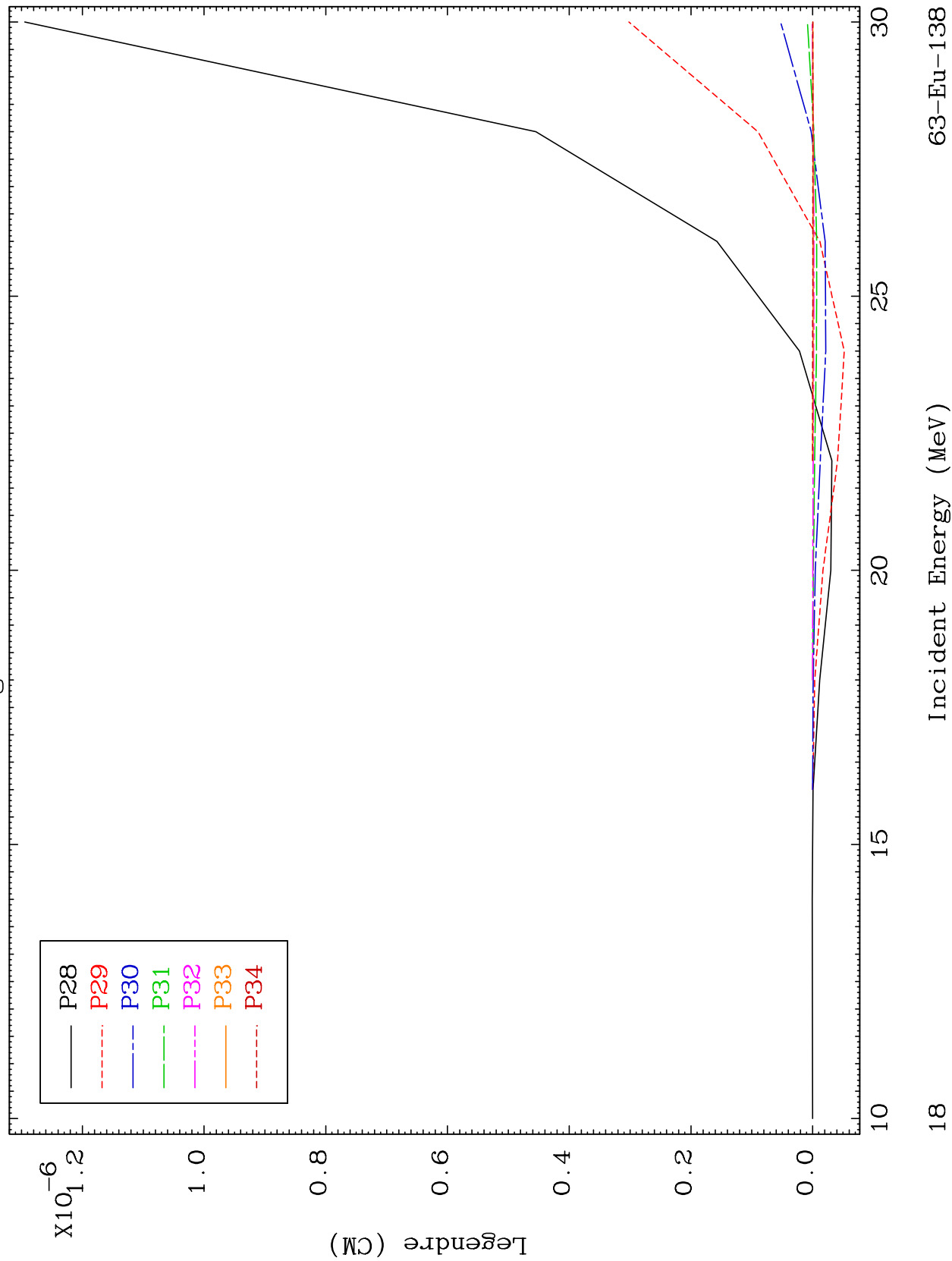
17

63-Eu-138

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### Elastic Legendre Coefficients

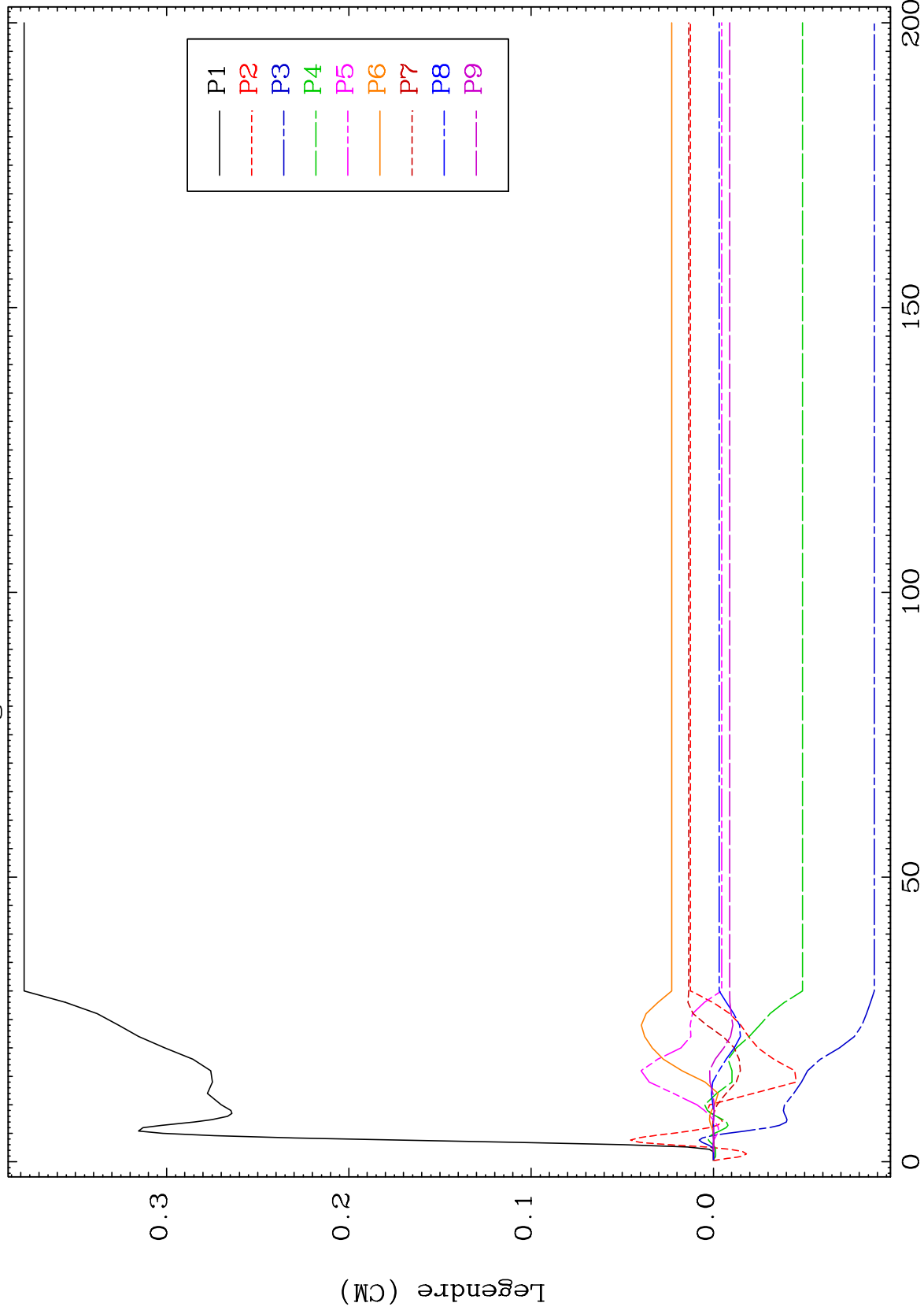
63-Eu-138



63-Eu-138

Incident Energy (MeV)

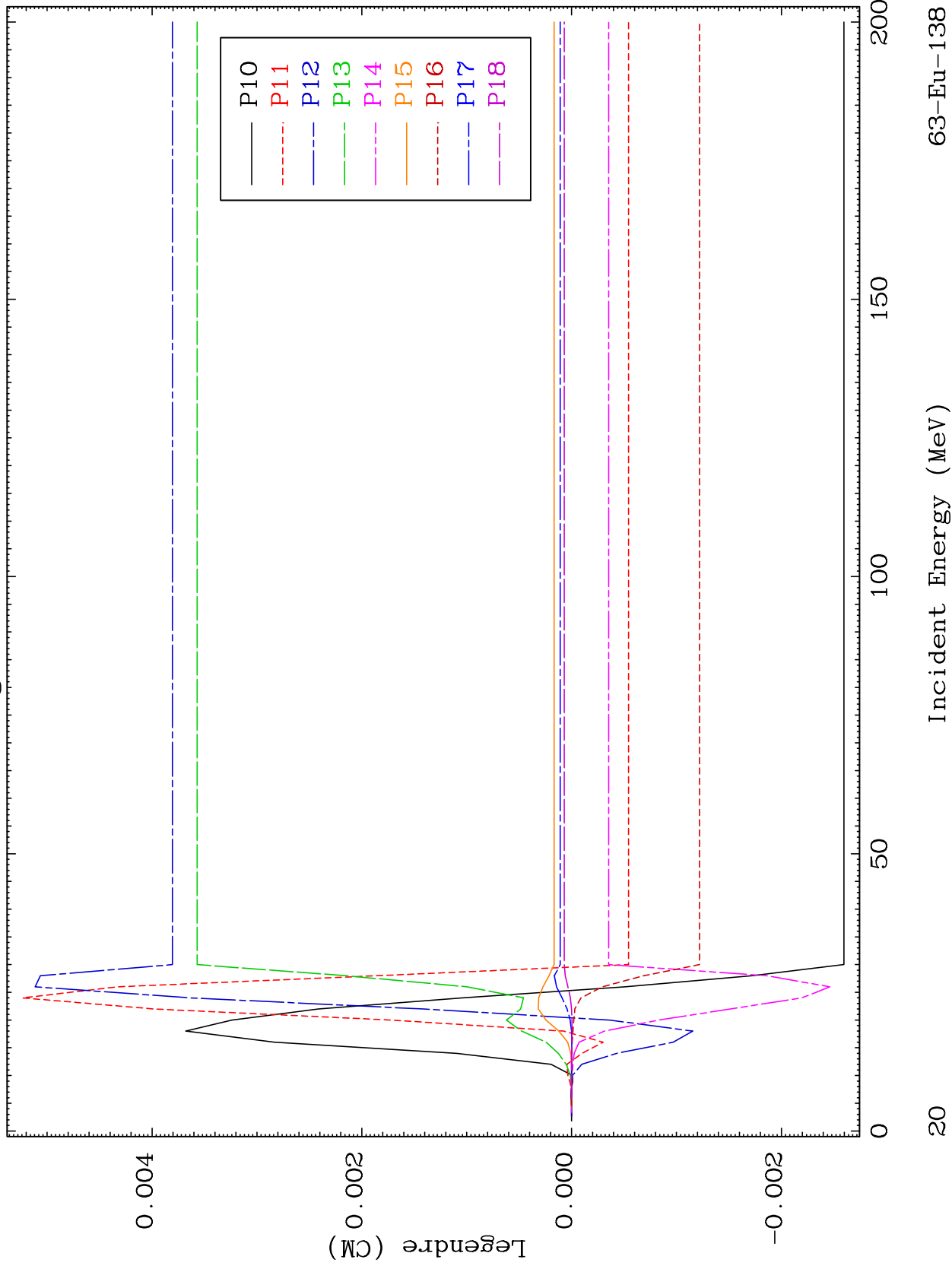
18



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188.4 keV (n,n') Level  
Legendre Coefficients

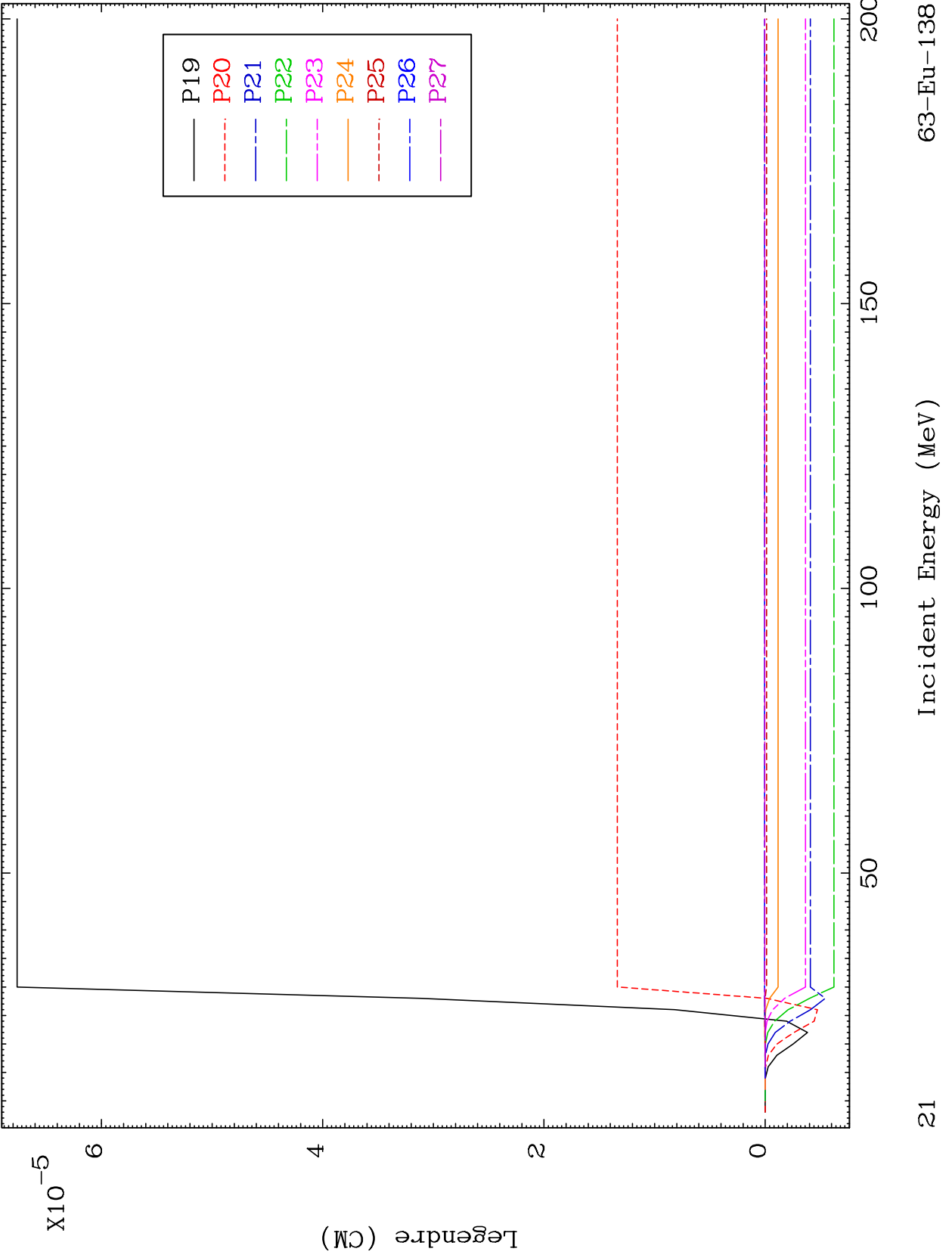
63-Eu-138



63-Eu-138

Incident Energy (MeV)

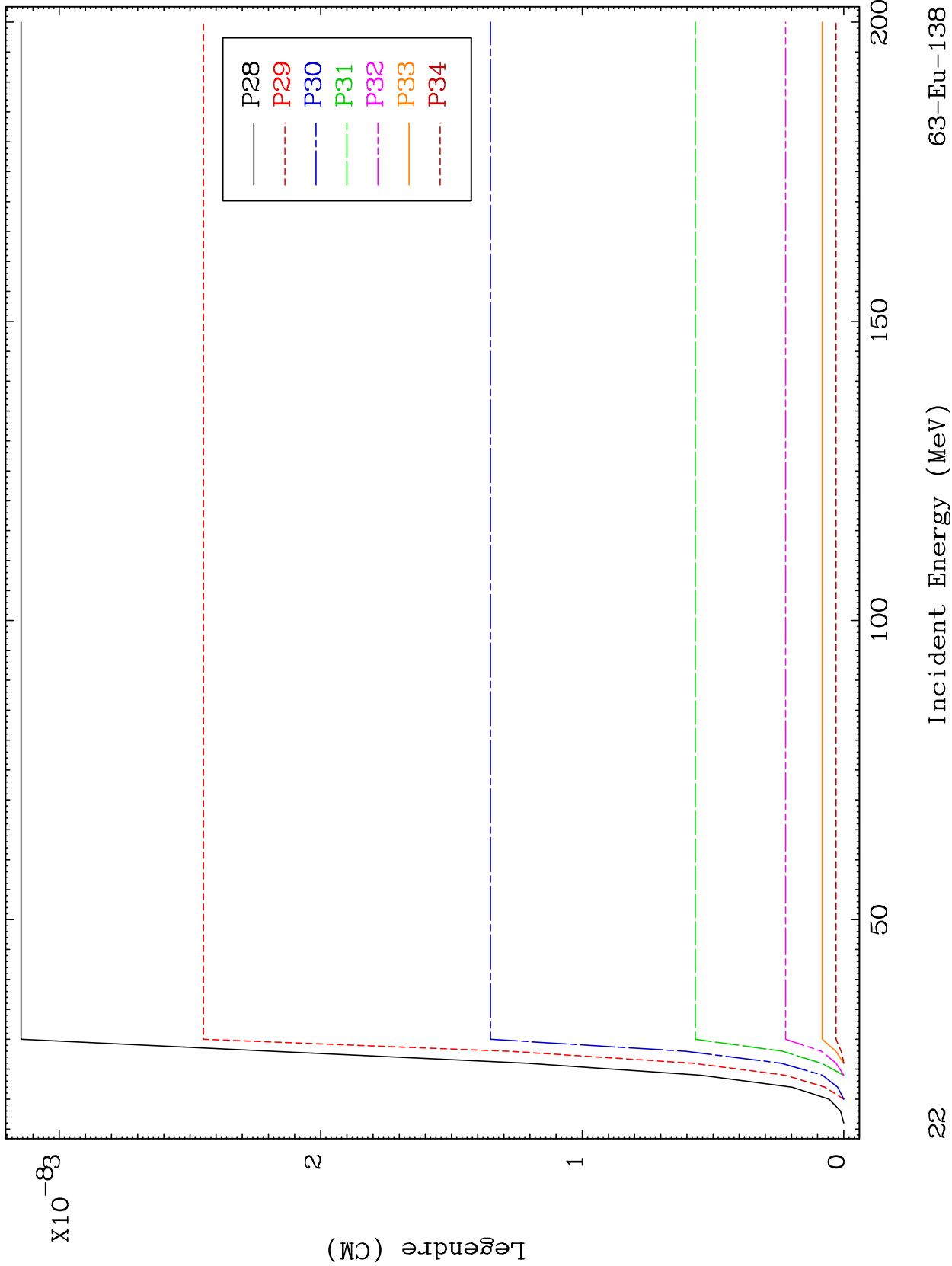
20



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188.4 keV (n,n') Level  
Legendre Coefficients

63-Eu-138



22

Incident Energy (MeV)

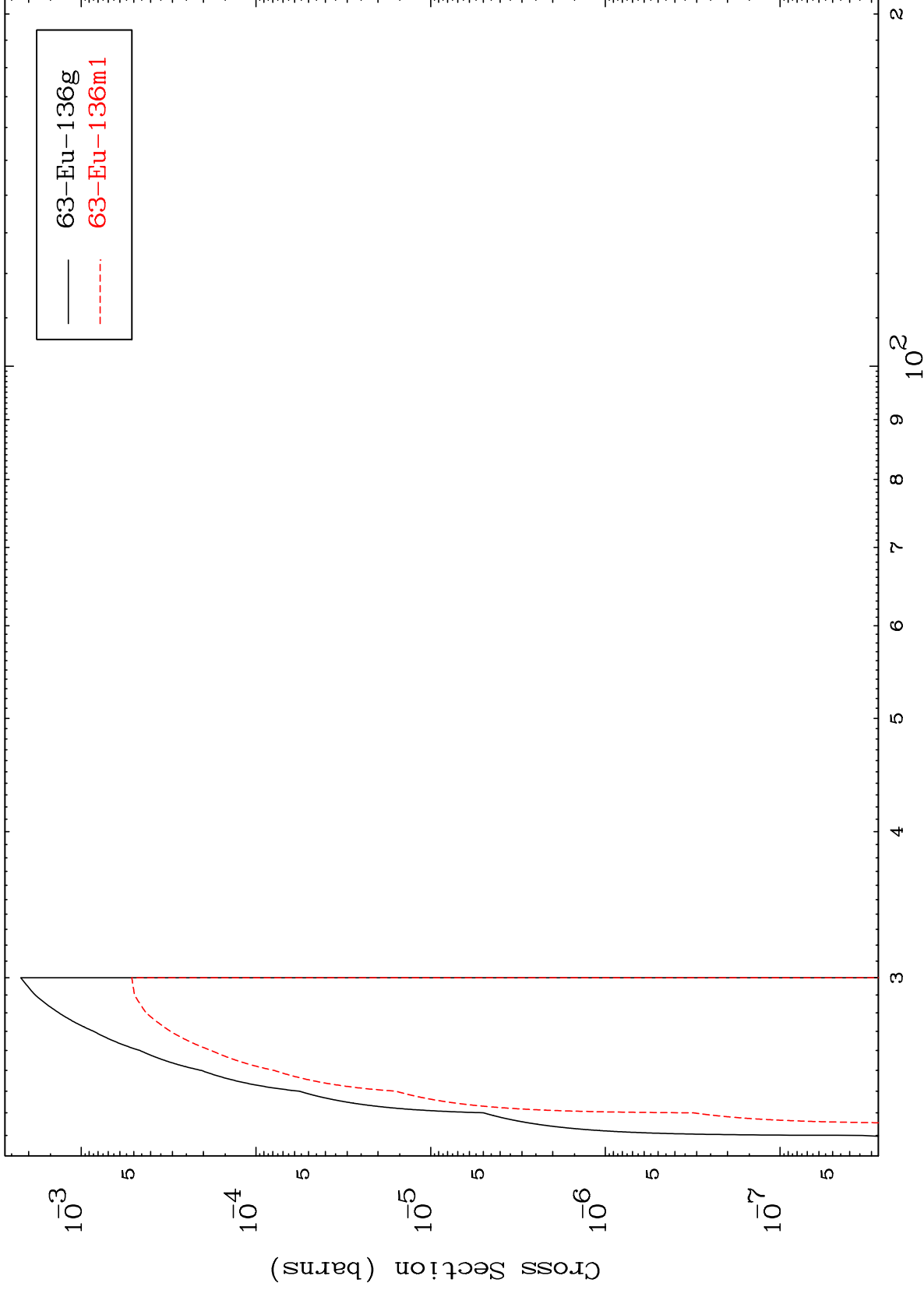
63-Eu-138

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(n,3n)

63-Eu-138

Radionuclide Production Cross Section



23

Incident Energy (MeV)

63-Eu-138

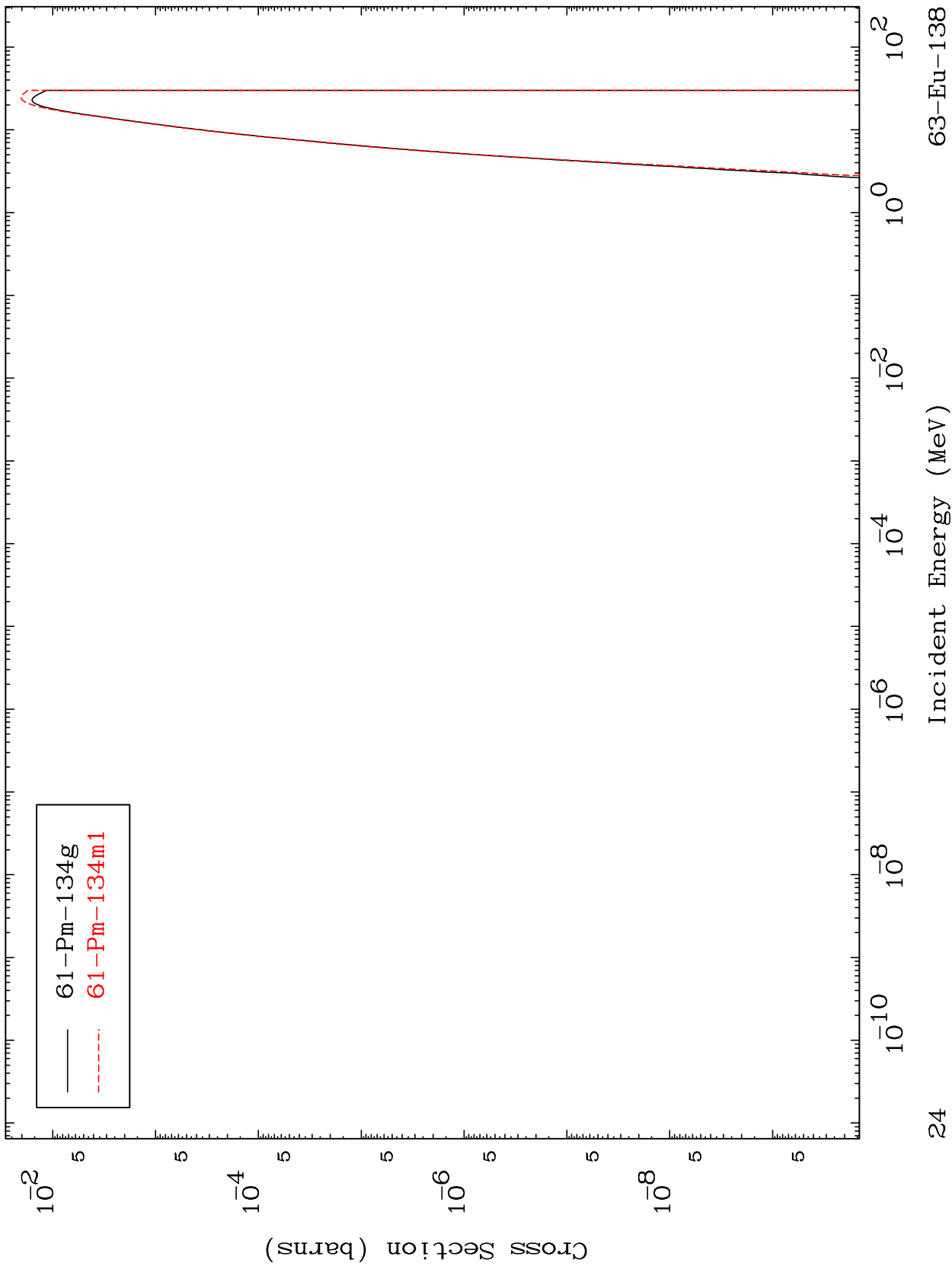


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$(n, n') \alpha$

63-Eu-138

Radionuclide Production Cross Section



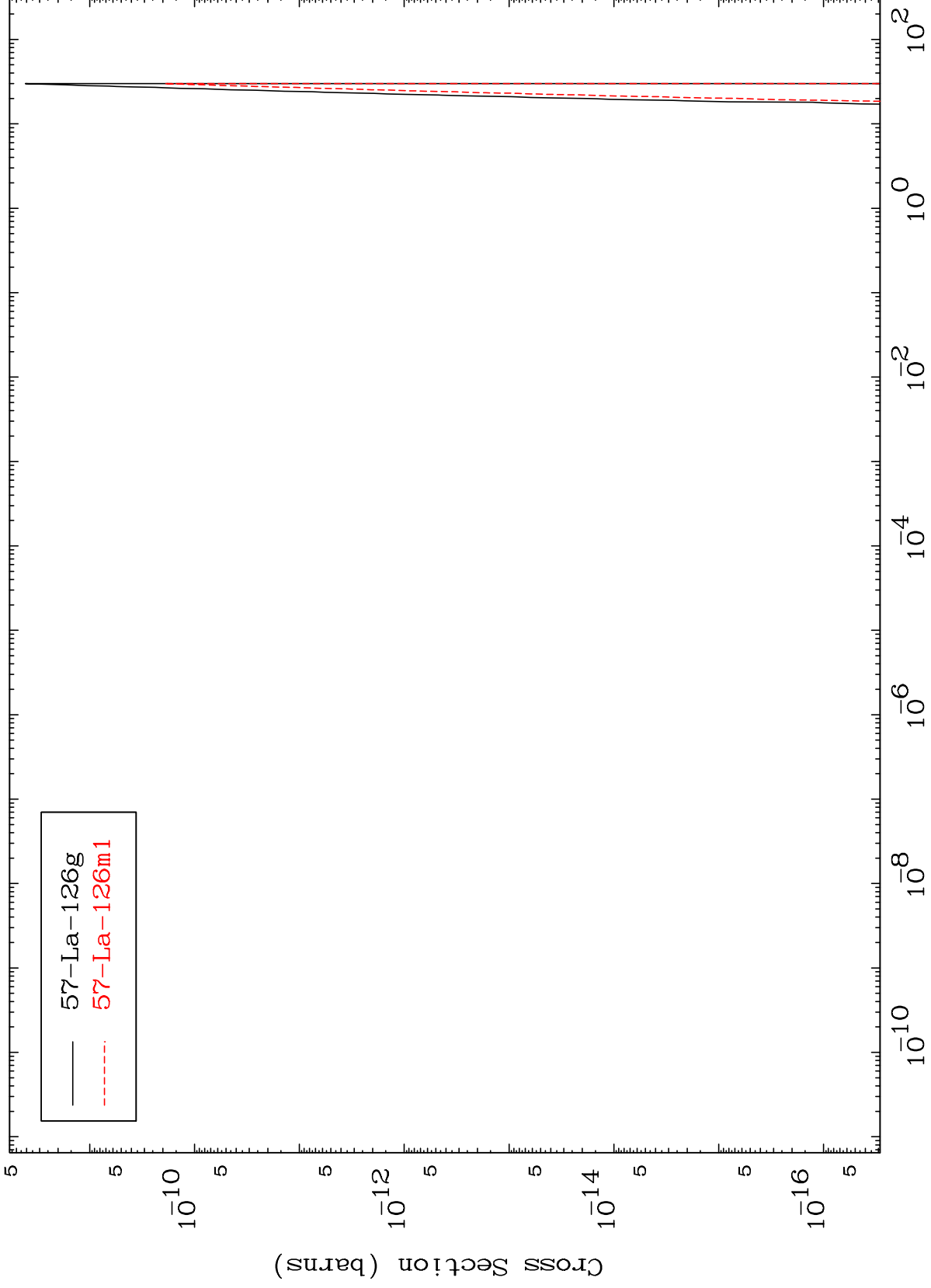
61-Pm-134g  
61-Pm-134m1

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(n,n') 3 $\alpha$

63-Eu-138

Radionuclide Production Cross Section

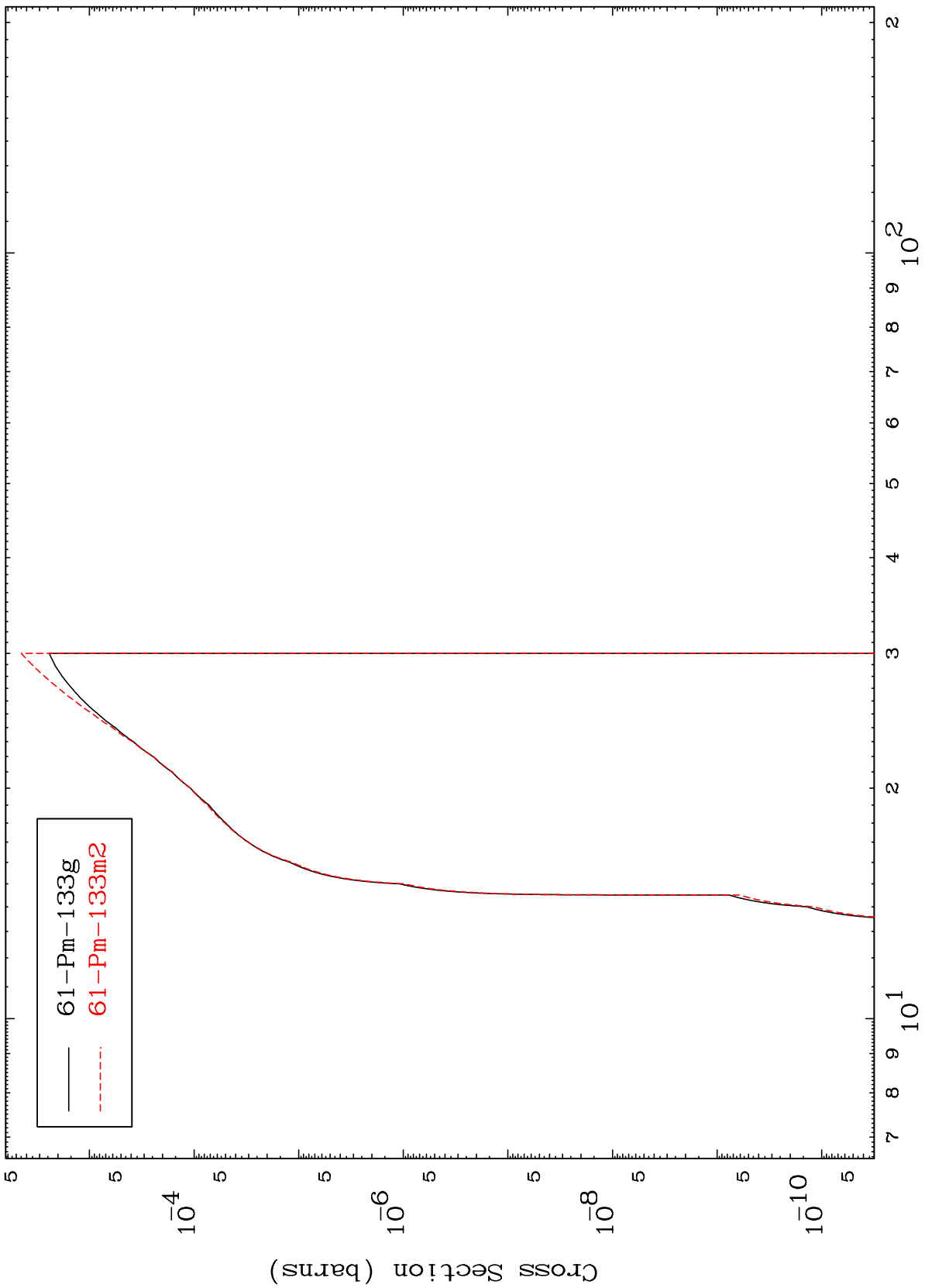


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$(n,2n) \alpha$

63-Eu-138

Radionuclide Production Cross Section



26

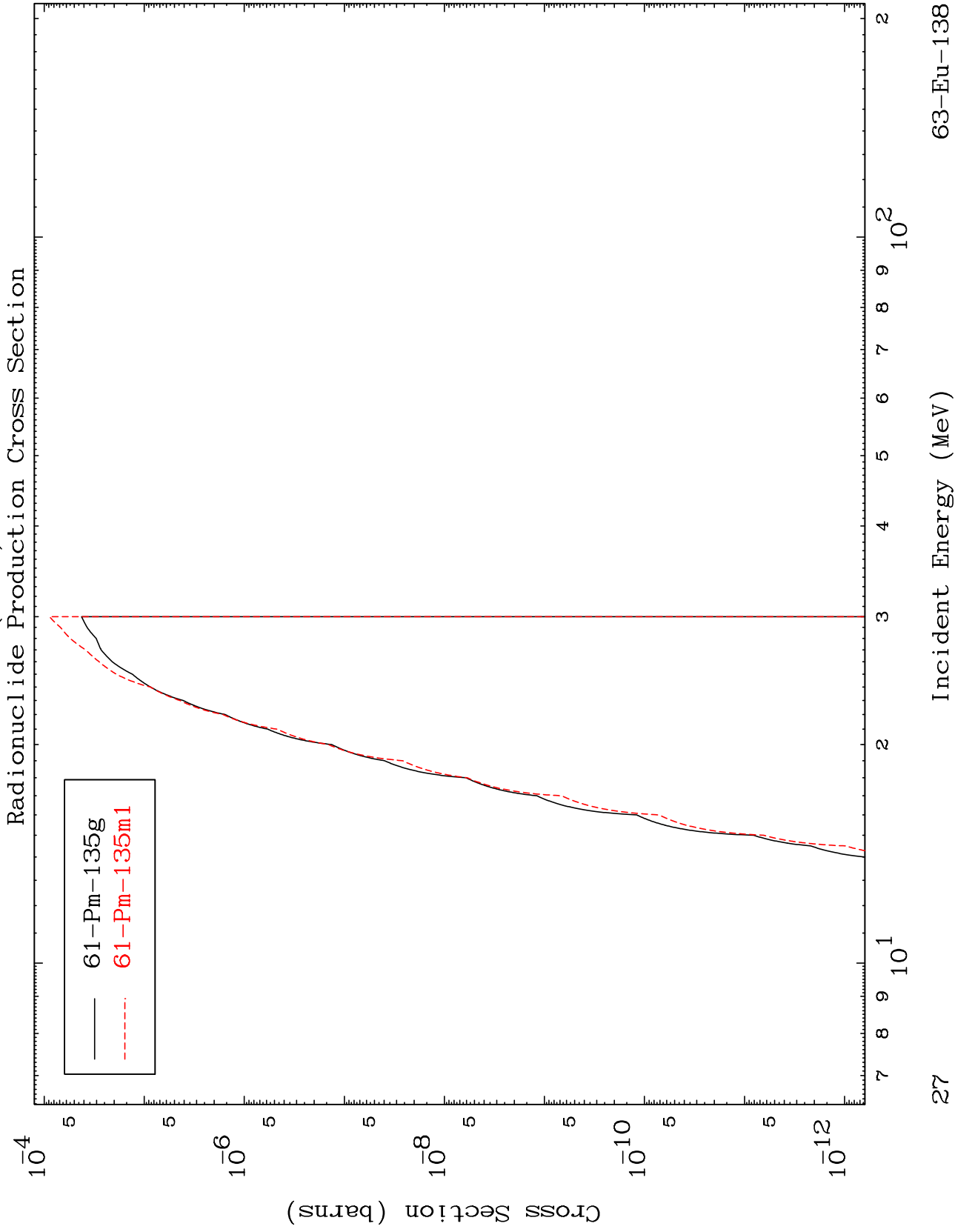
Incident Energy (MeV)

63-Eu-138

MAT 6286

(n,n') He-3

63-Eu-138



27

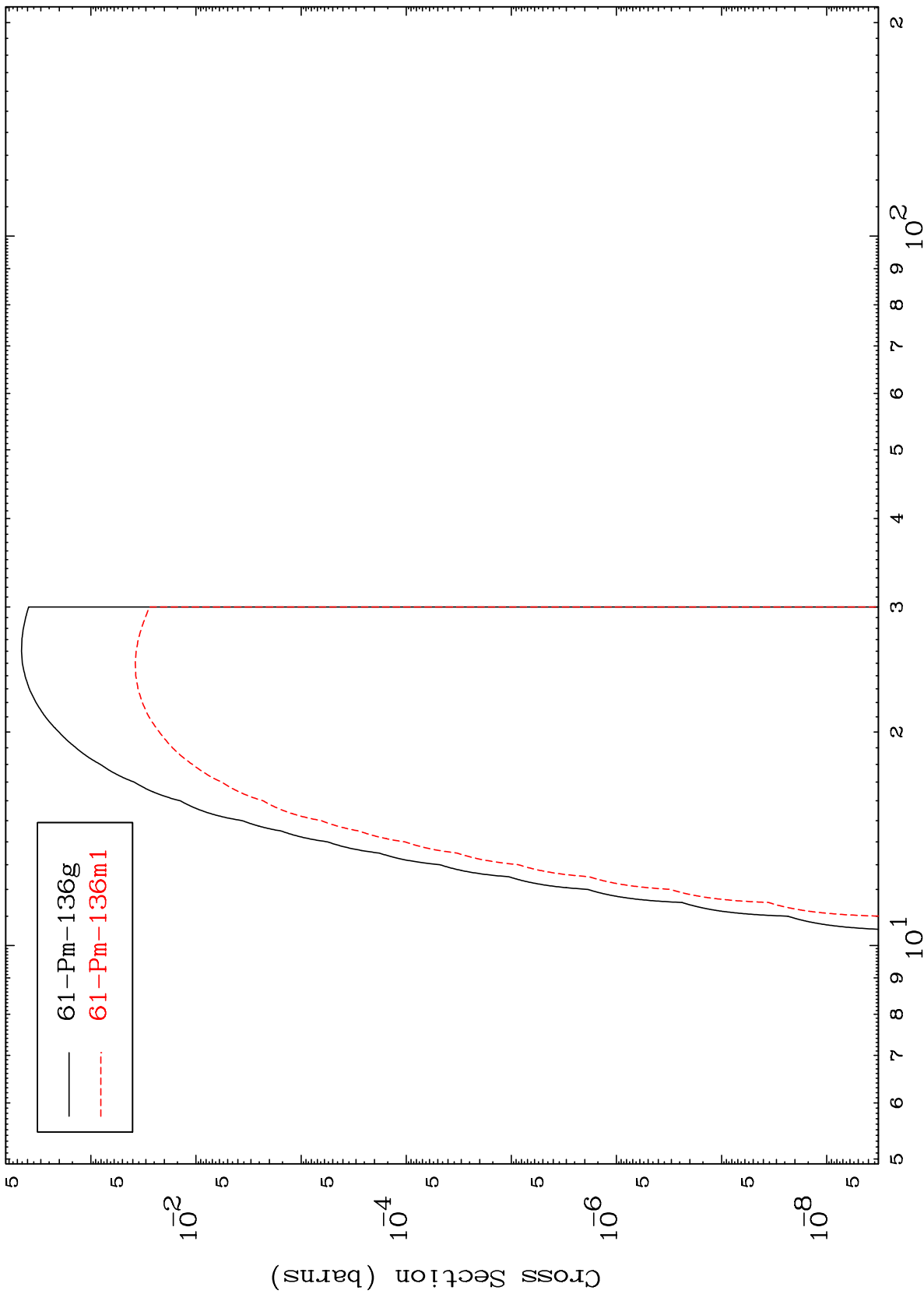
63-Eu-138

MAT 6286

(n,2n) p

63-Eu-138

Radionuclide Production Cross Section



28

Incident Energy (MeV)

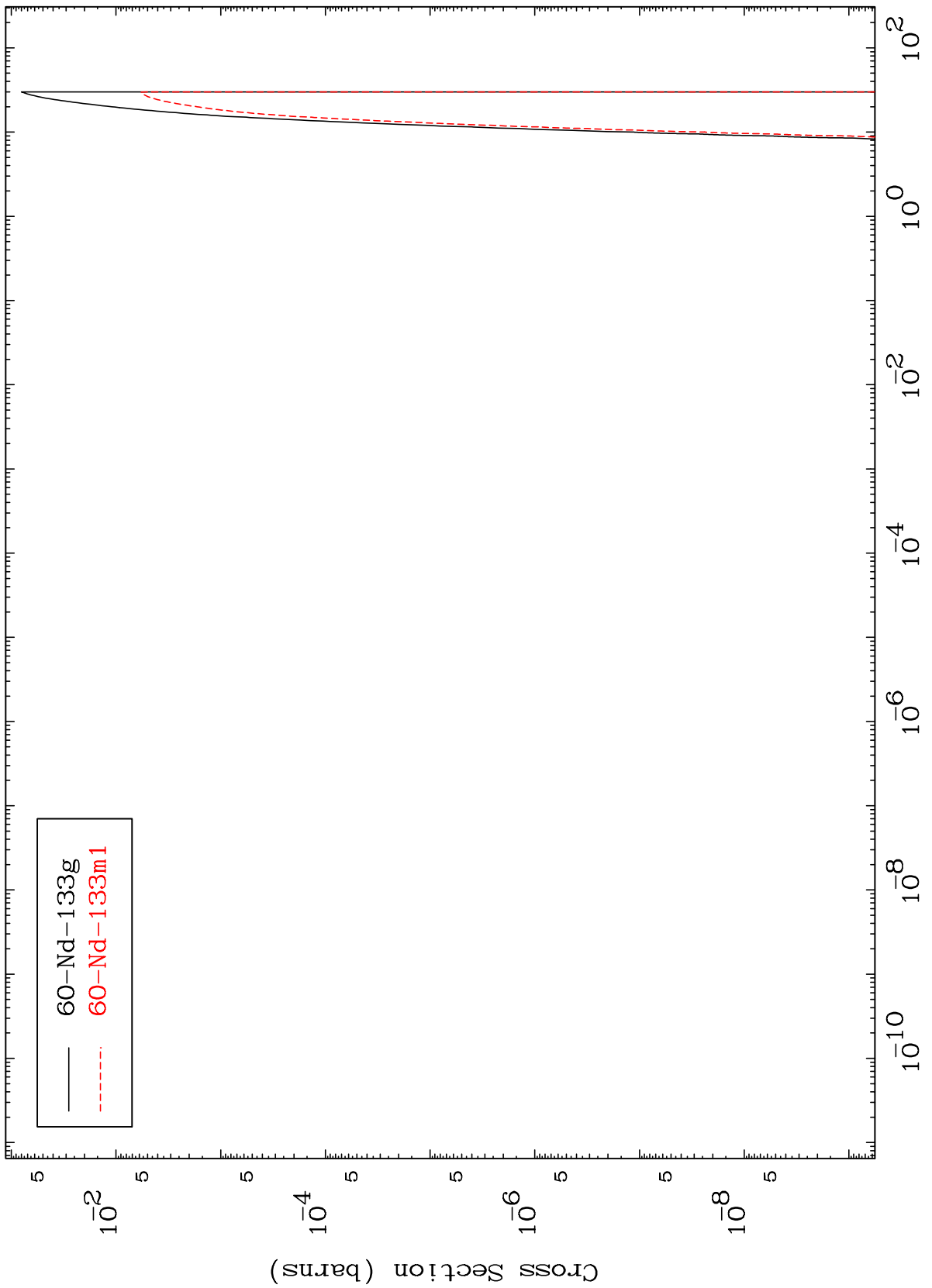
63-Eu-138

MAT 6286

(n,n') p  $\alpha$

63-Eu-138

Radionuclide Production Cross Section

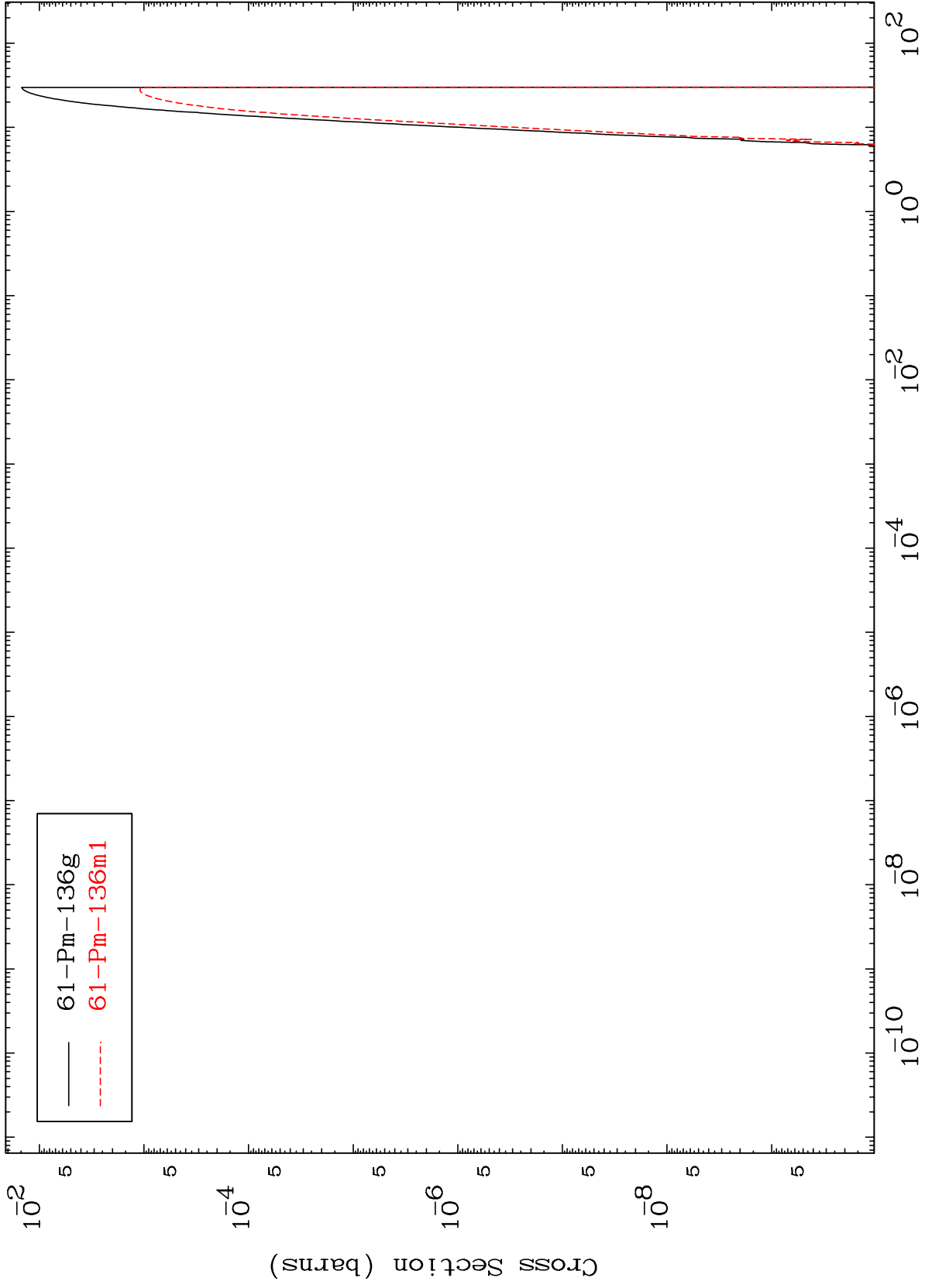


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(n,He-3)

63-Eu-138

Radionuclide Production Cross Section



61-Pm-136g  
61-Pm-136m1

30

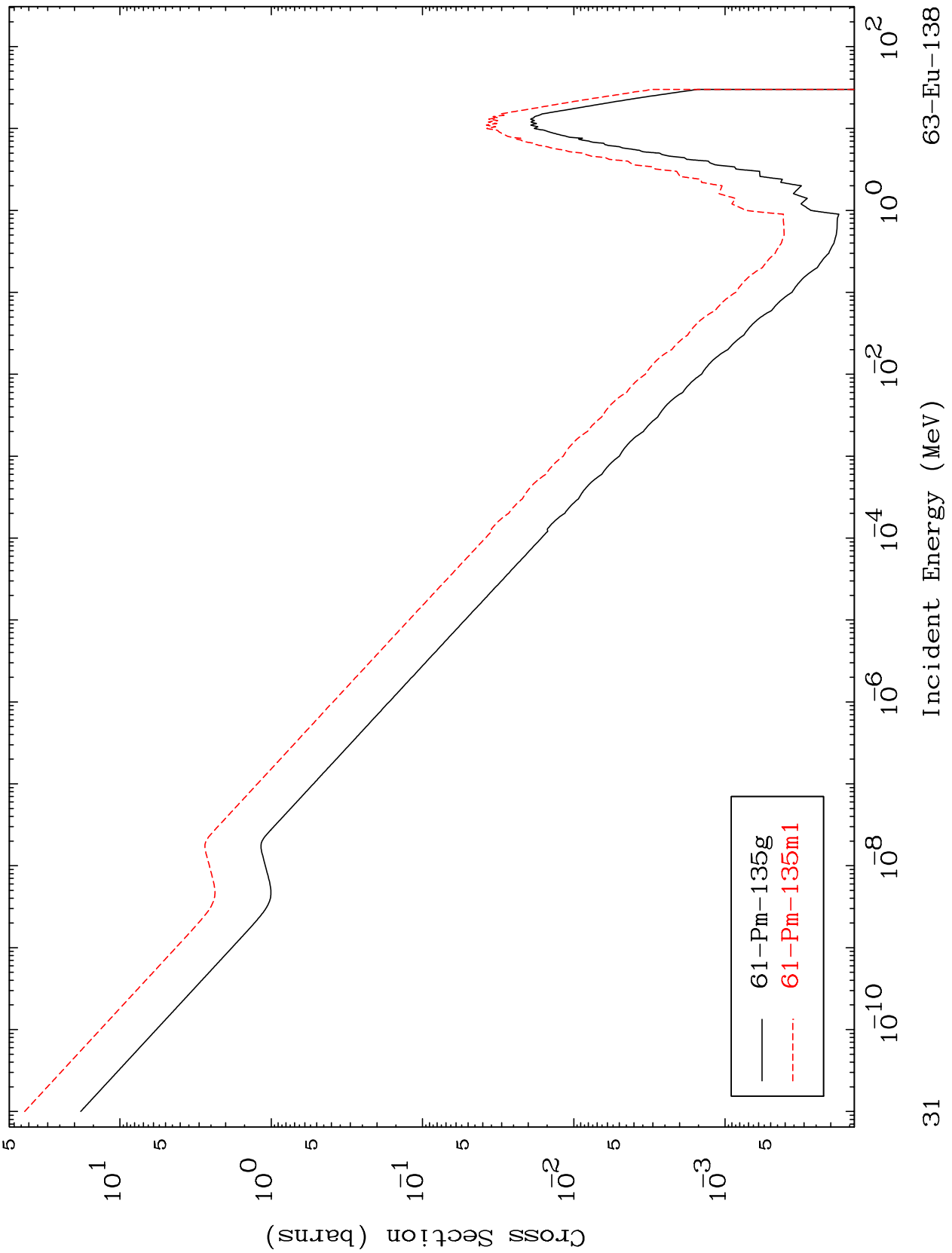
Incident Energy (MeV)

63-Eu-138

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63-Eu-138

Radionuclide Production Cross Section



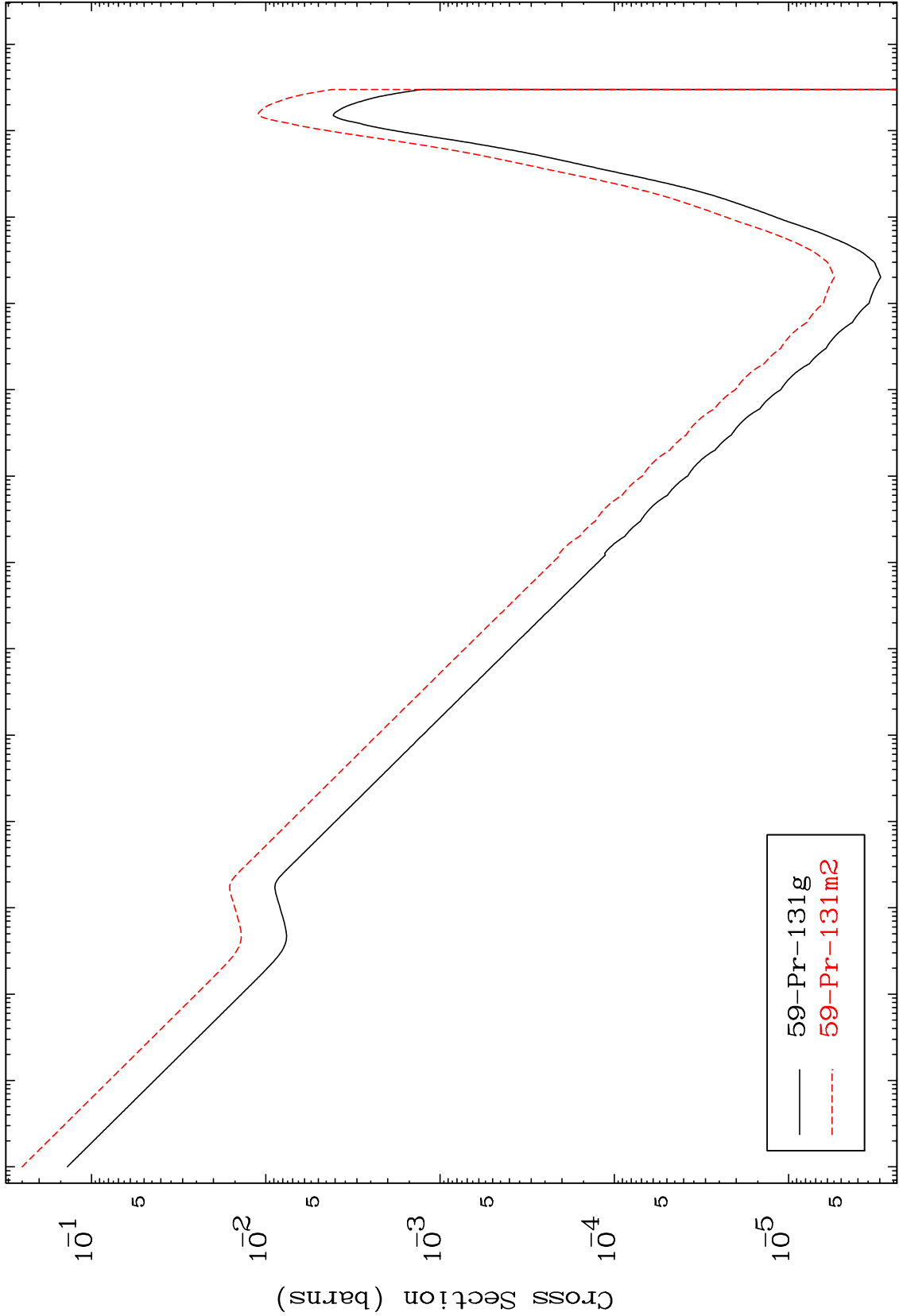


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(n,2α)

63-Eu-138

Radionuclide Production Cross Section



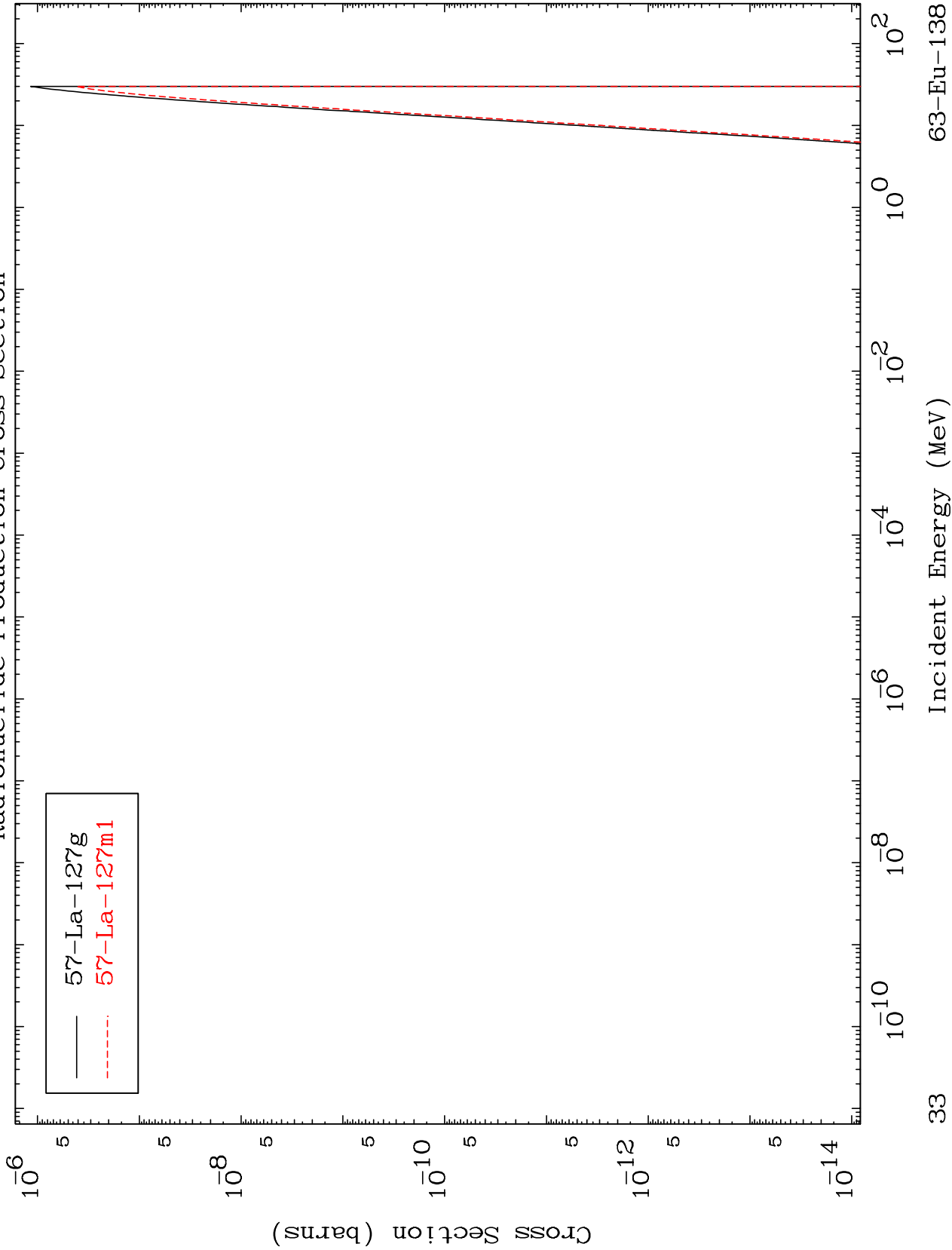
— 59-Pr-131g  
- - - 59-Pr-131m2

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(n, 3 $\alpha$ )

63-Eu-138

Radionuclide Production Cross Section



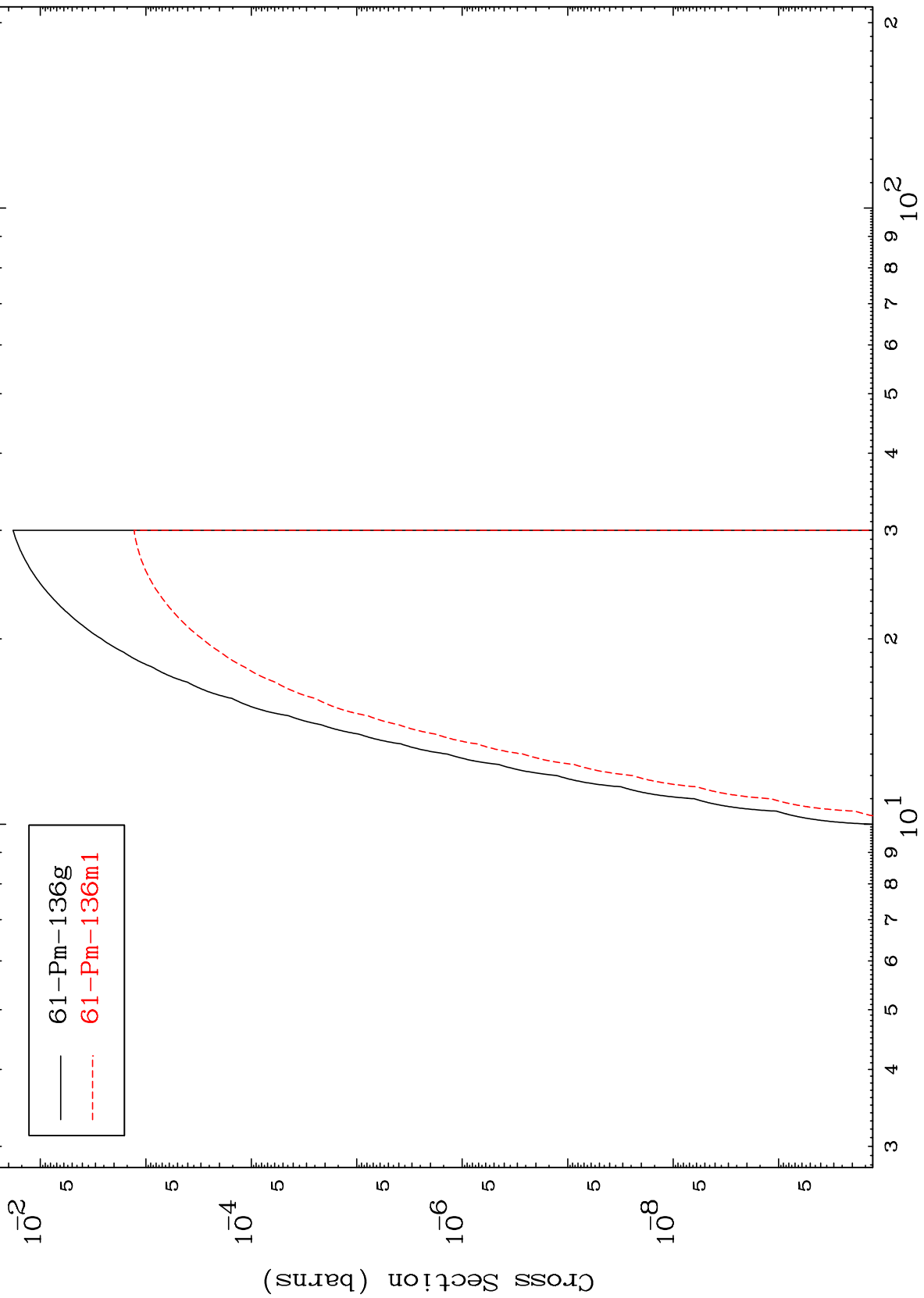
57-La-127g  
57-La-127m1

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(n,p) d

63-Eu-138

Radionuclide Production Cross Section



61-Pm-136g  
61-Pm-136m1

34

Incident Energy (MeV)

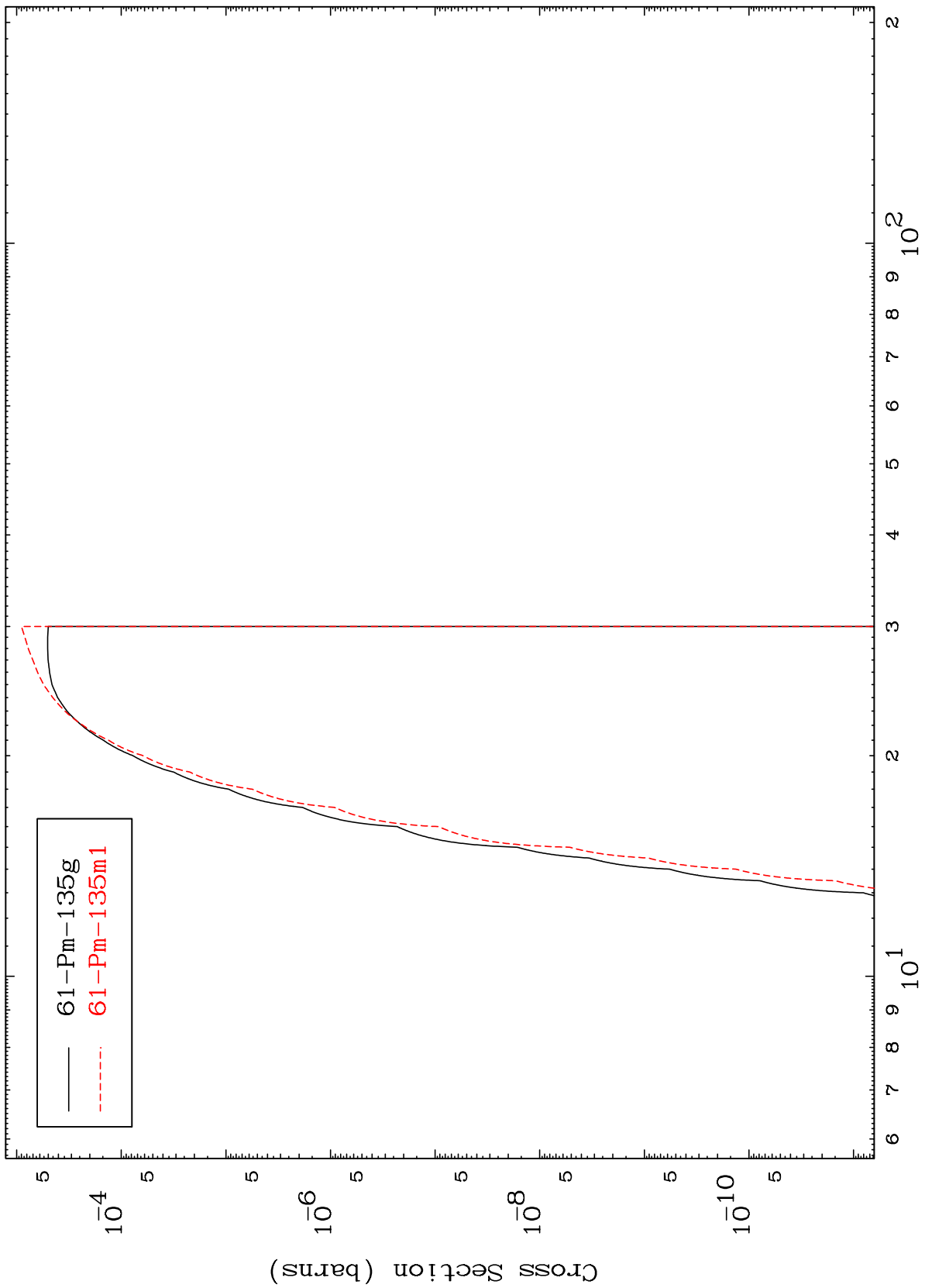
63-Eu-138

MAT 6286

(n,p) t

63-Eu-138

Radionuclide Production Cross Section



61-Pm-135g  
61-Pm-135m1

35

Incident Energy (MeV)

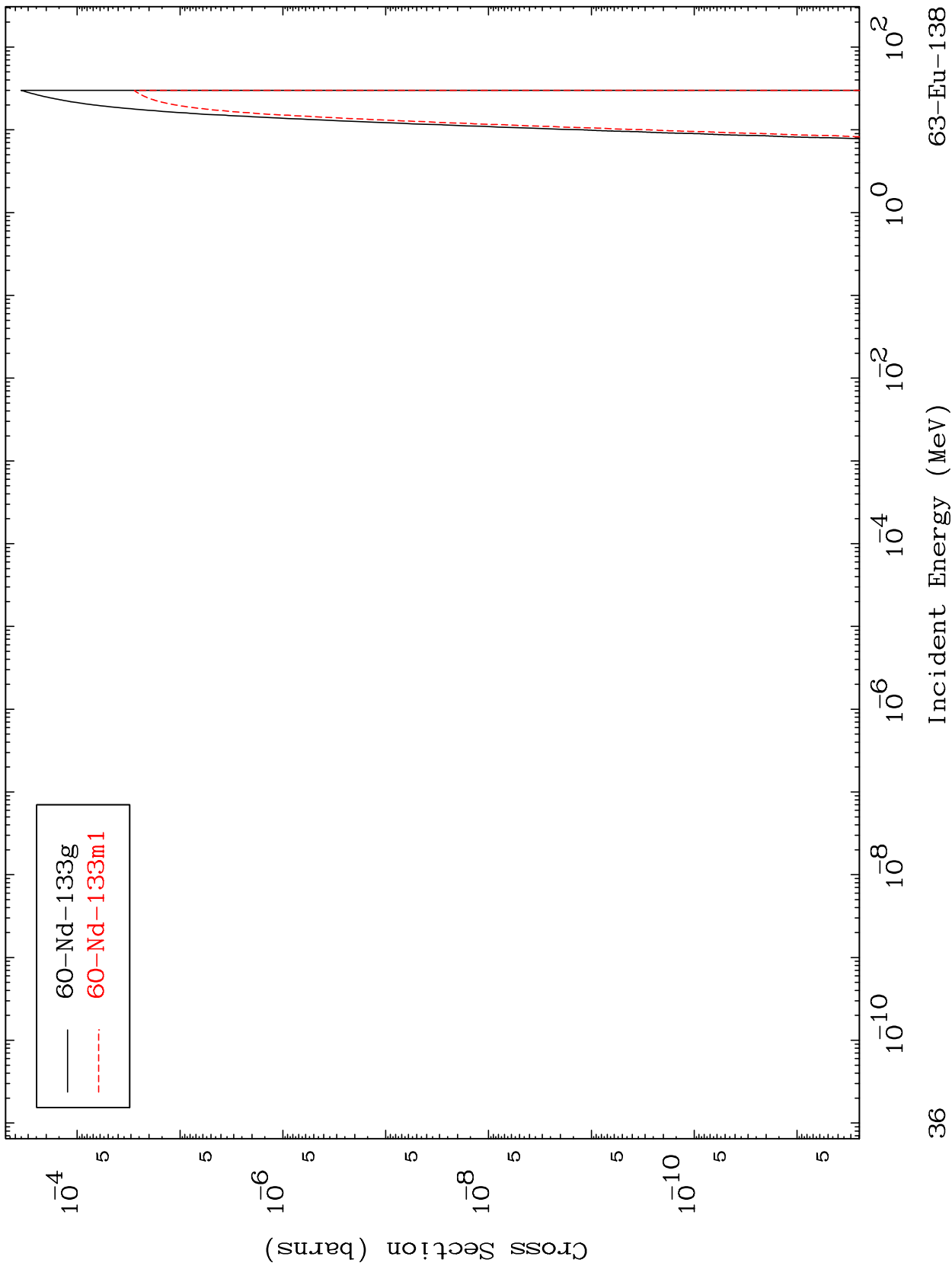
63-Eu-138

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(n,d)  $\alpha$

$^{63}\text{Eu}-138$

Radionuclide Production Cross Section



36

Incident Energy (MeV)

$^{63}\text{Eu}-138$