

Program EVALPLOT
(Version 2021-1)

by

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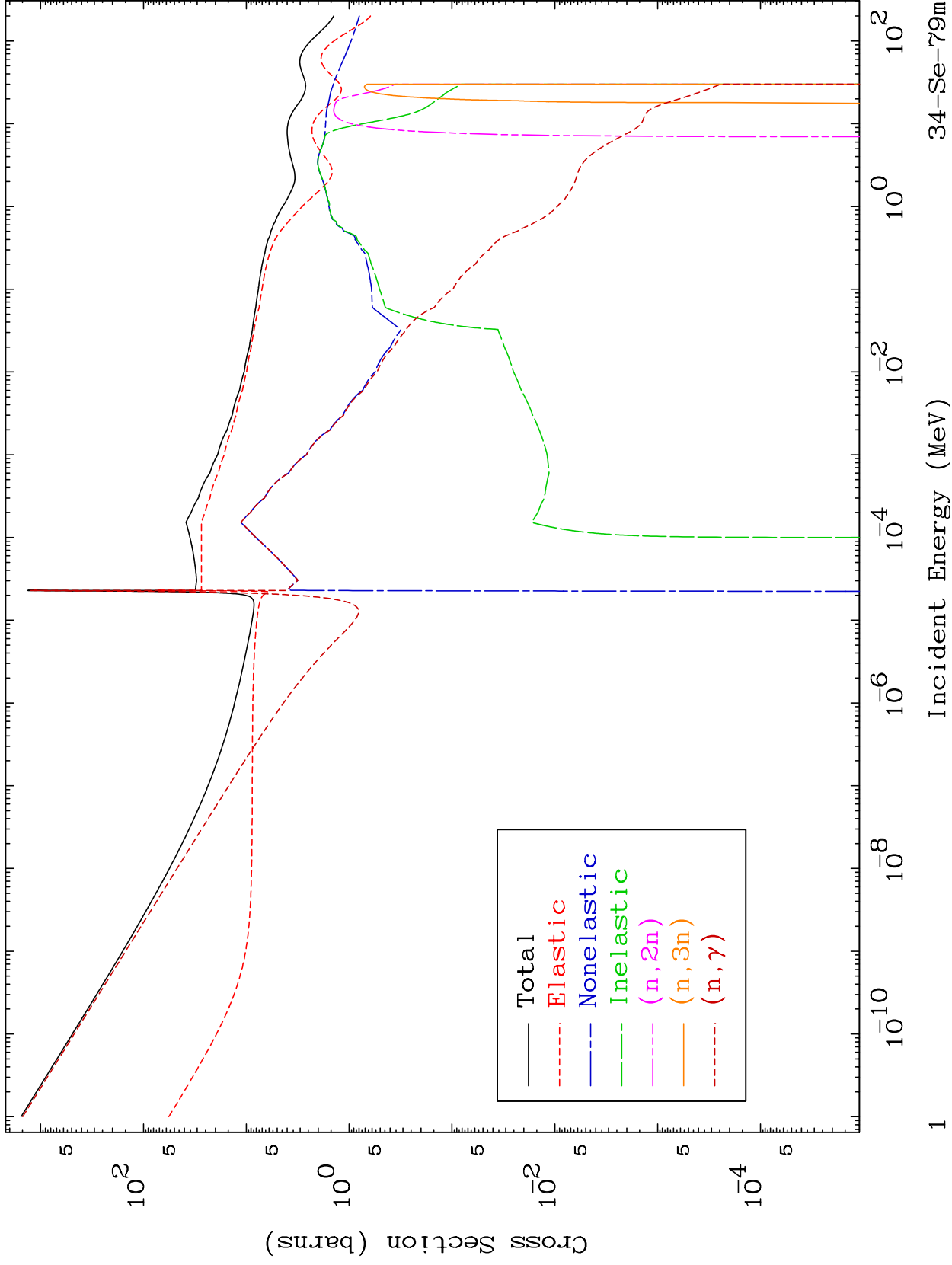
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3441

Neutron Major
293 Kelvin Cross Sections

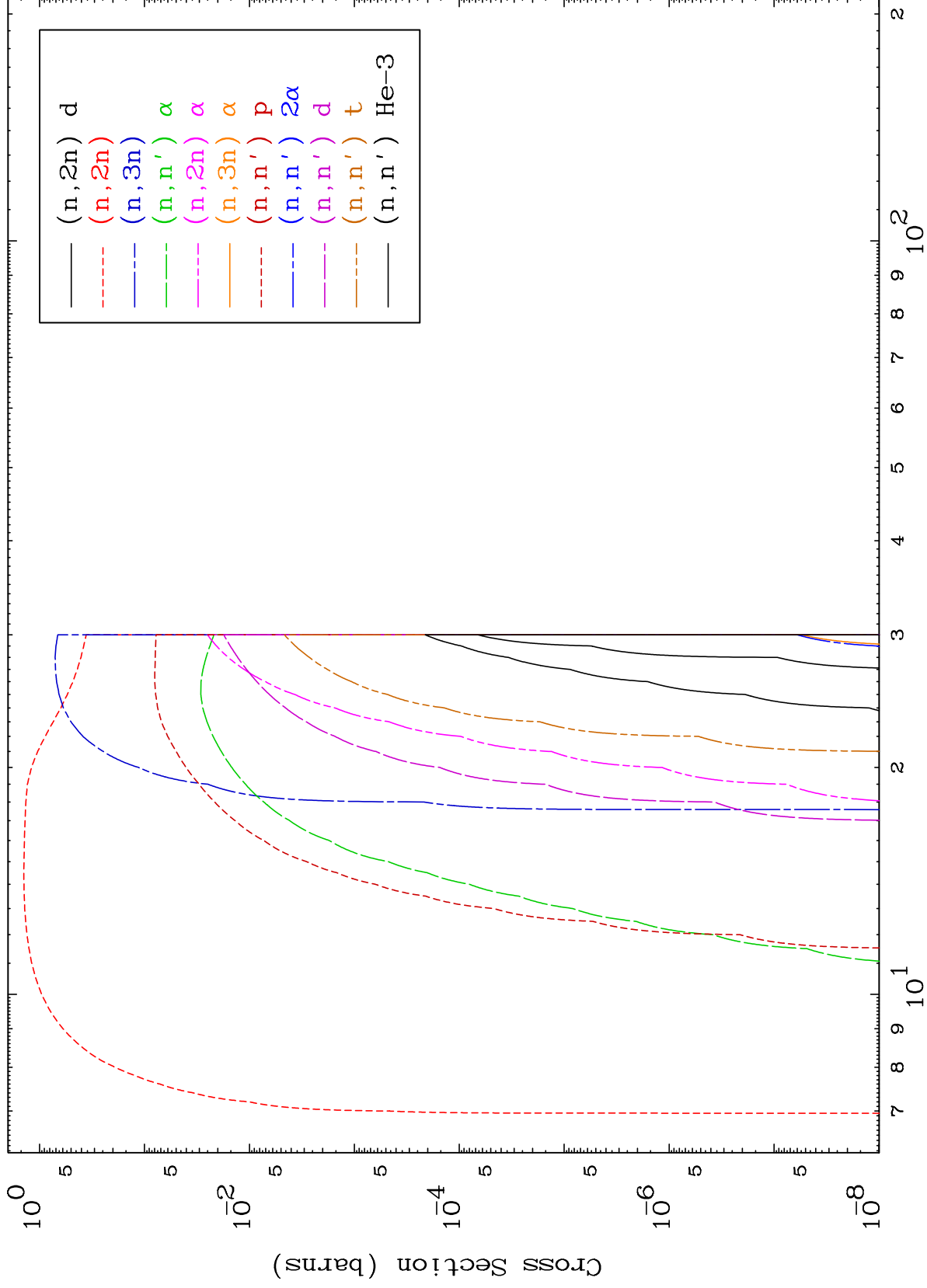
34-Se-79m



MAT 3441

Neutron Absorption
293 Kelvin Cross Sections

34-Se-79m



2

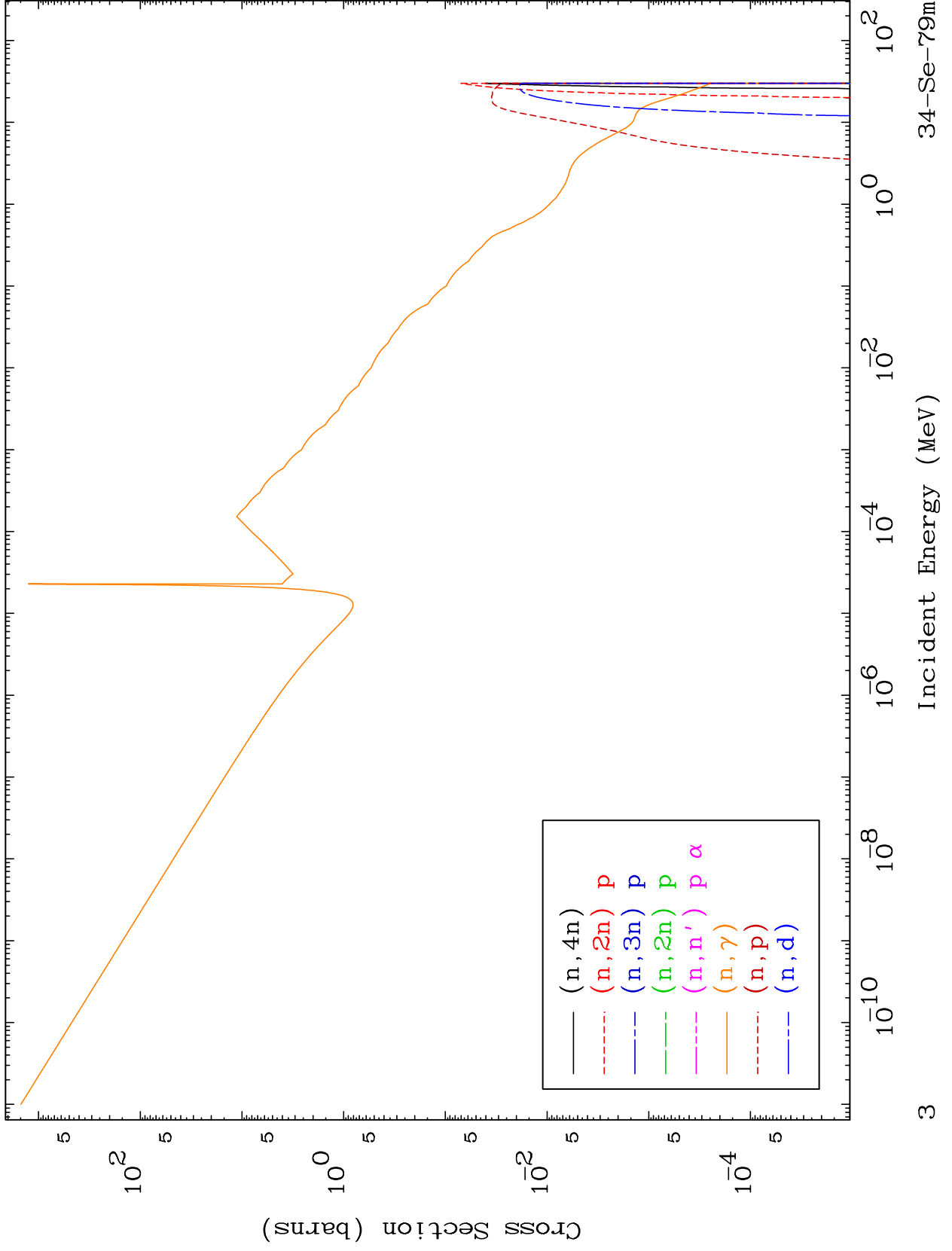
Incident Energy (MeV)

34-Se-79m

MAT 3441

Neutron Absorption
293 Kelvin Cross Sections

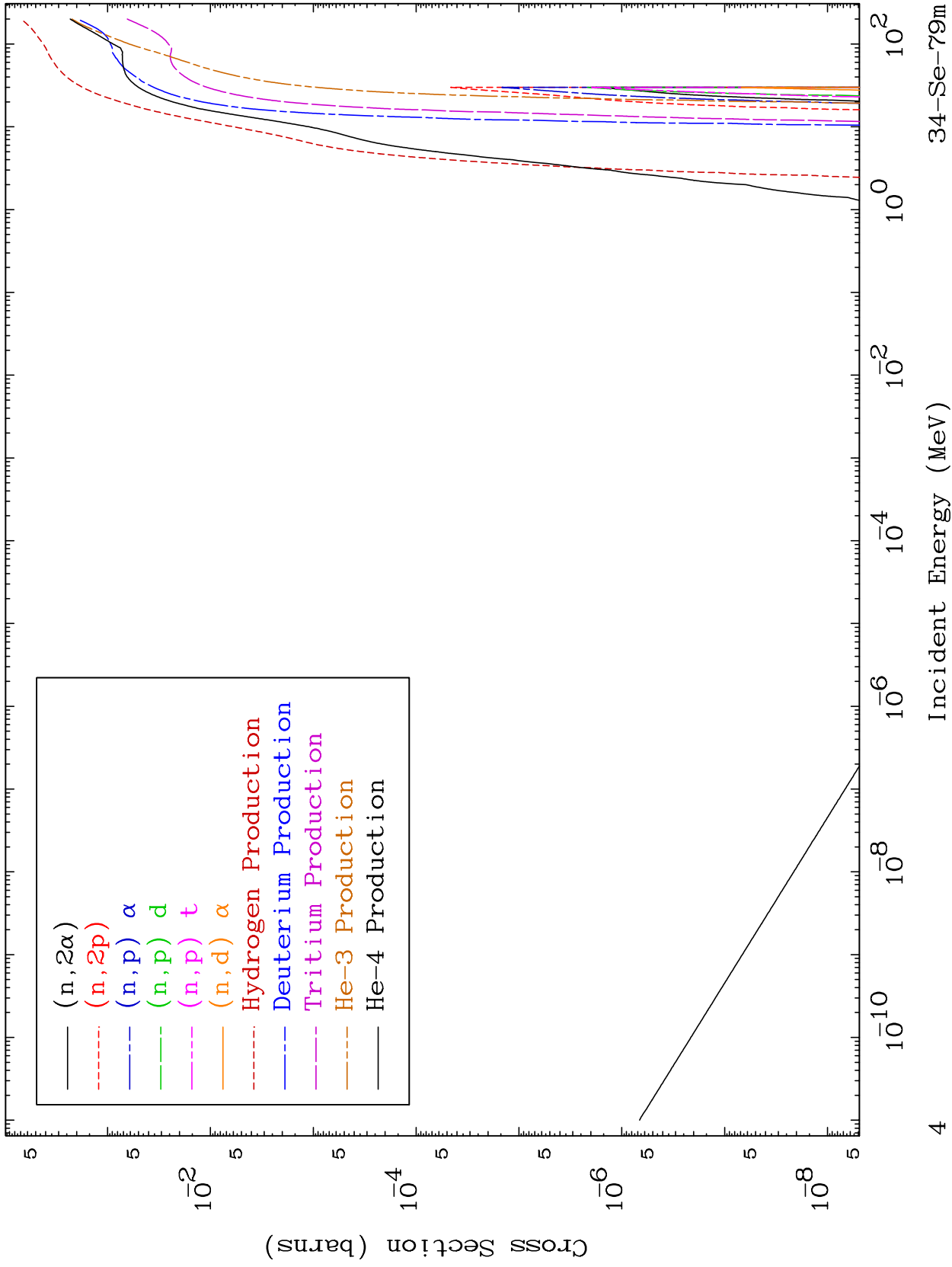
³⁴Se-79m



MAT 3441

Neutron Absorption
293 Kelvin Cross Sections

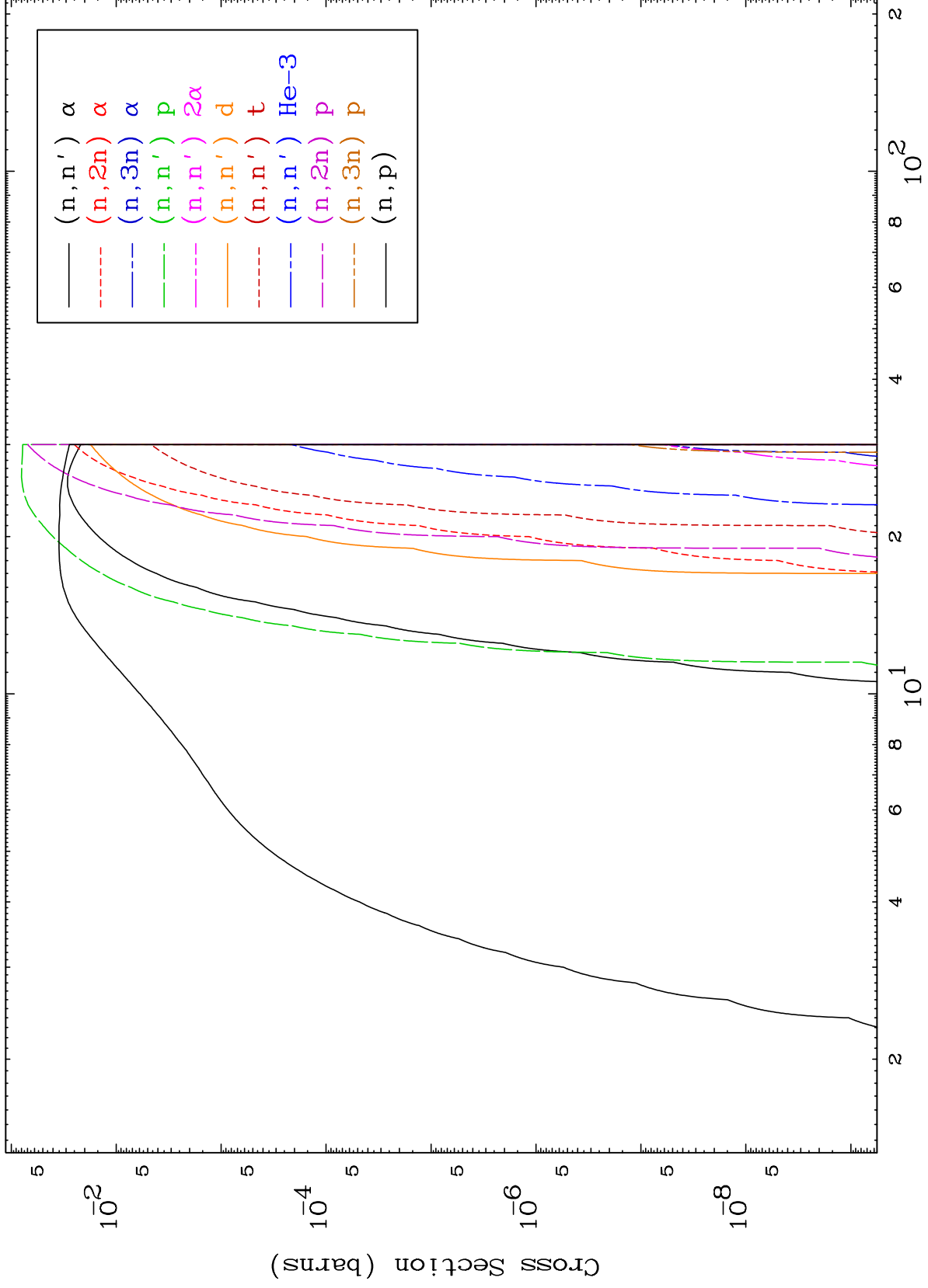
³⁴Se-79m



MAT 3441

Charged Particle
293 Kelvin Cross Sections

34-Se-79m



5

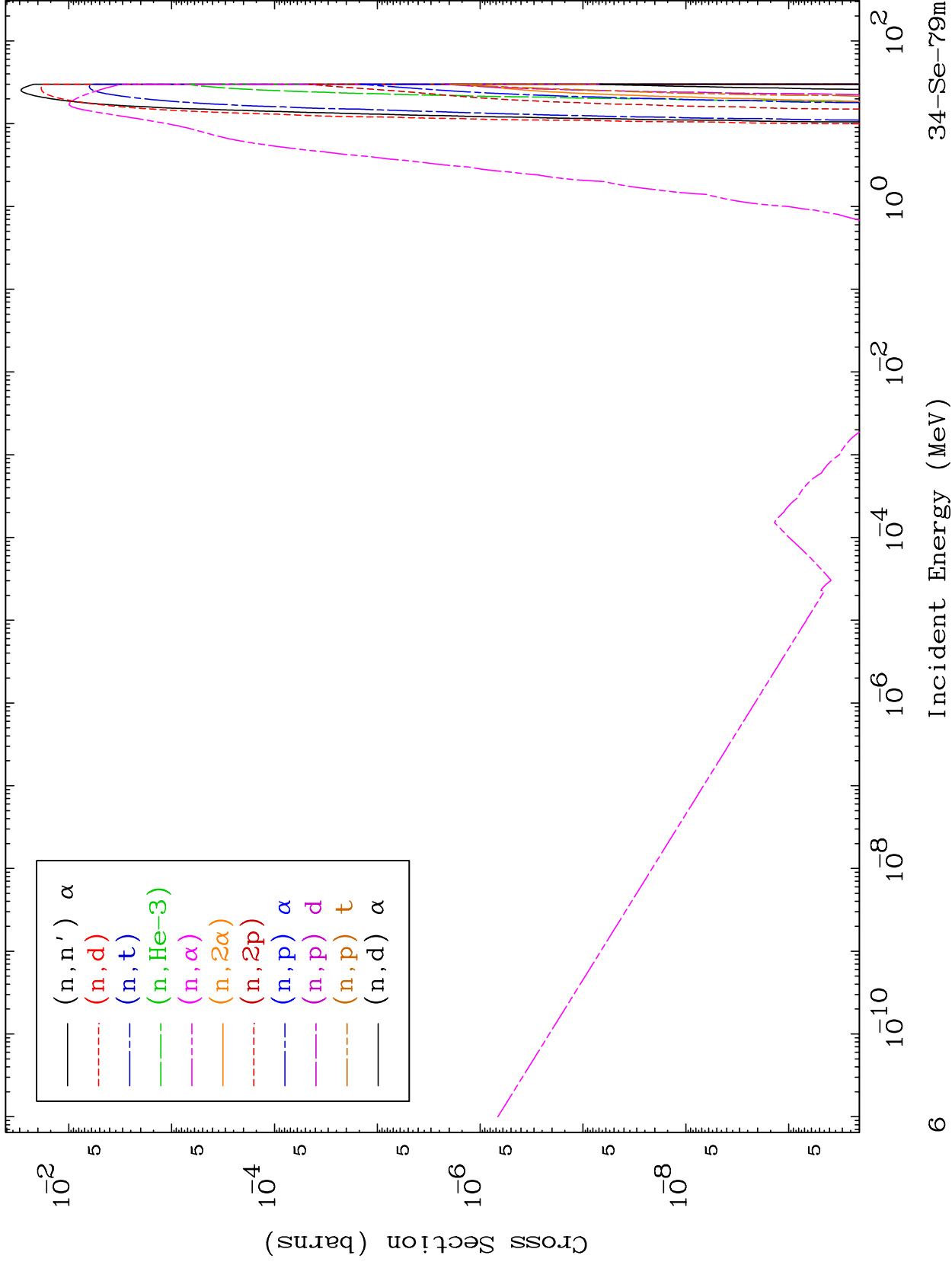
Incident Energy (MeV)

34-Se-79m

MAT 3441

Charged Particle
293 Kelvin Cross Sections

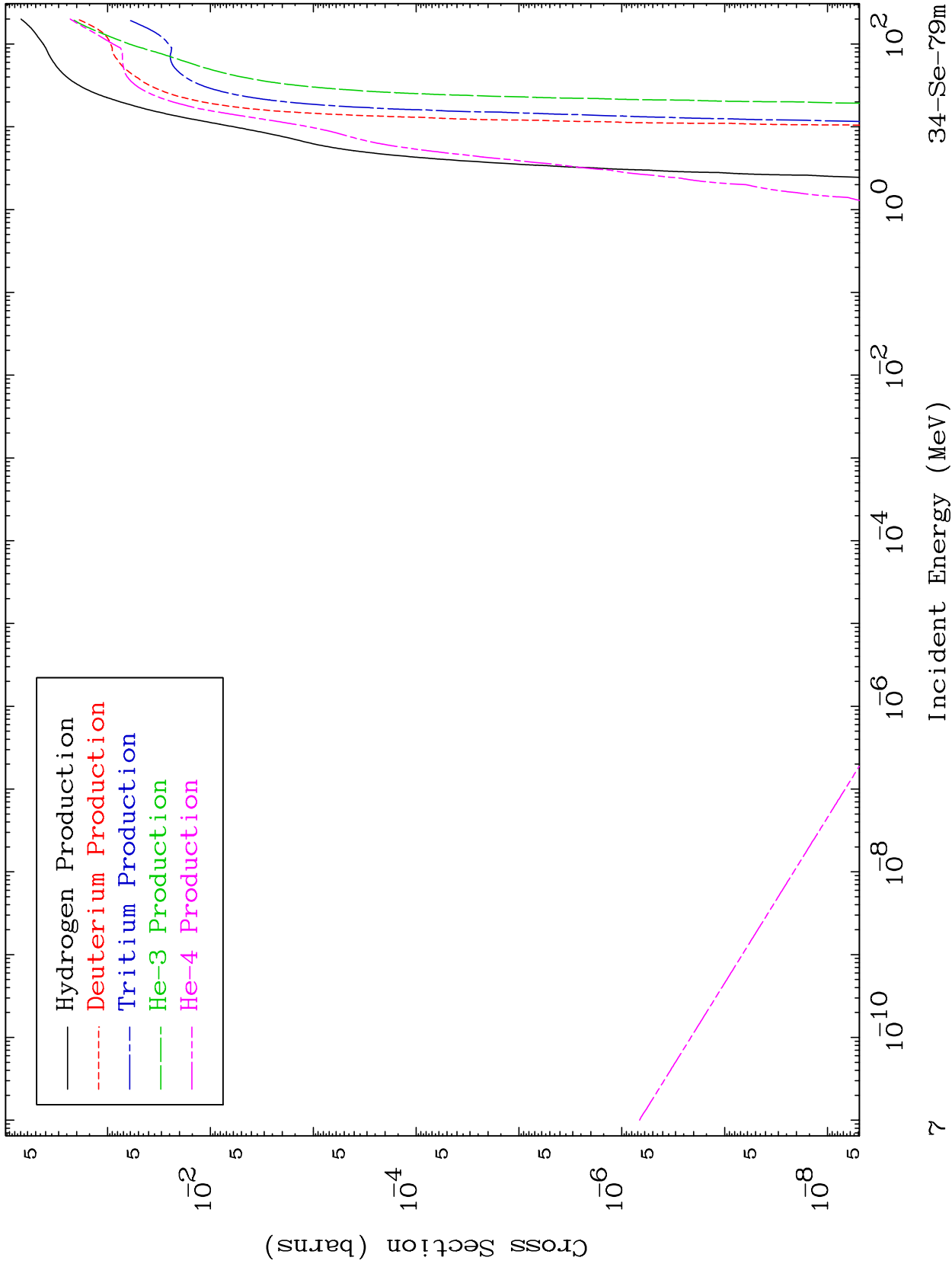
34-Se-79m



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Particle Production
293 Kelvin Cross Sections

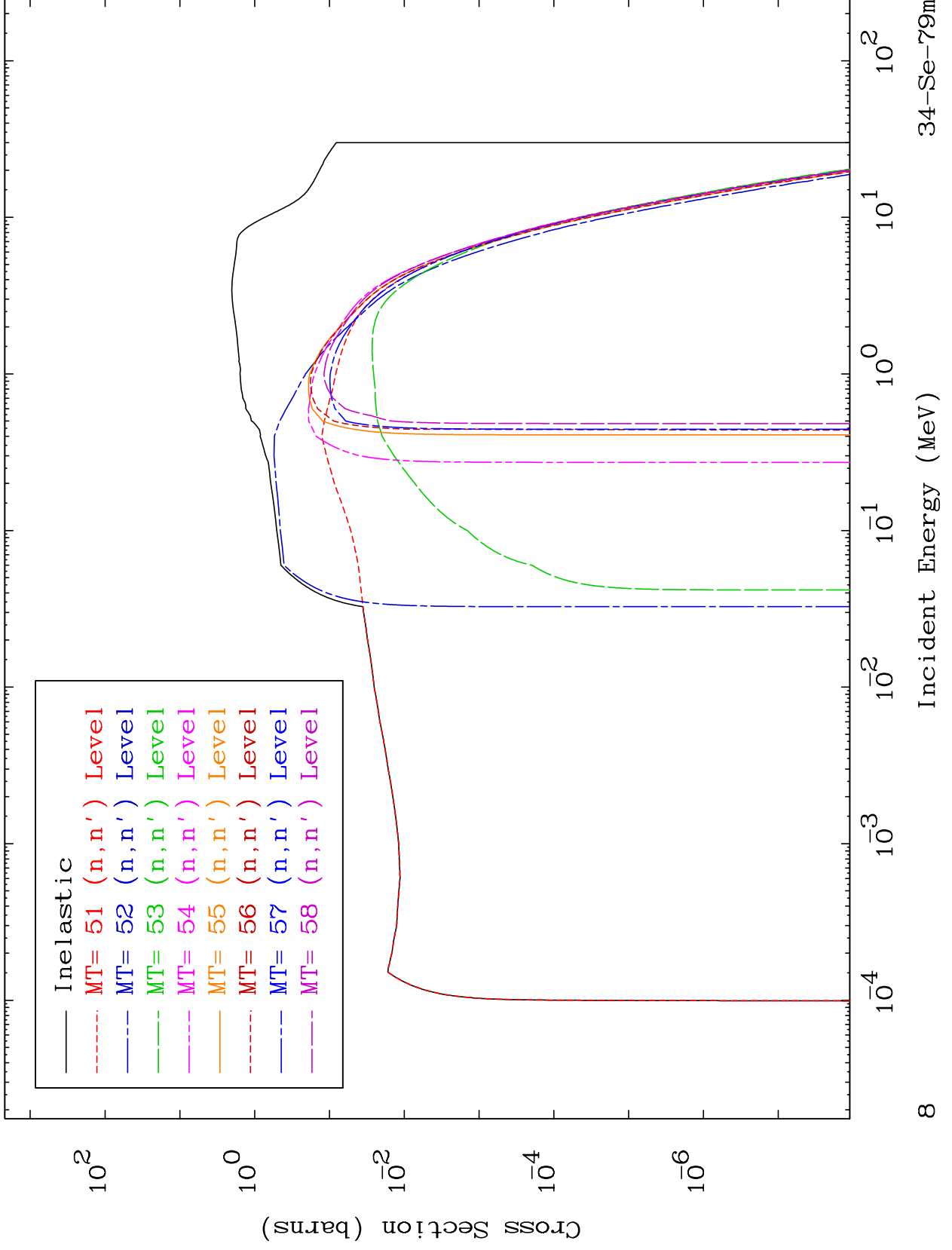
³⁴Se-⁷⁹m



MAT 3441

(n,n') Levels
293 Kelvin Cross Sections

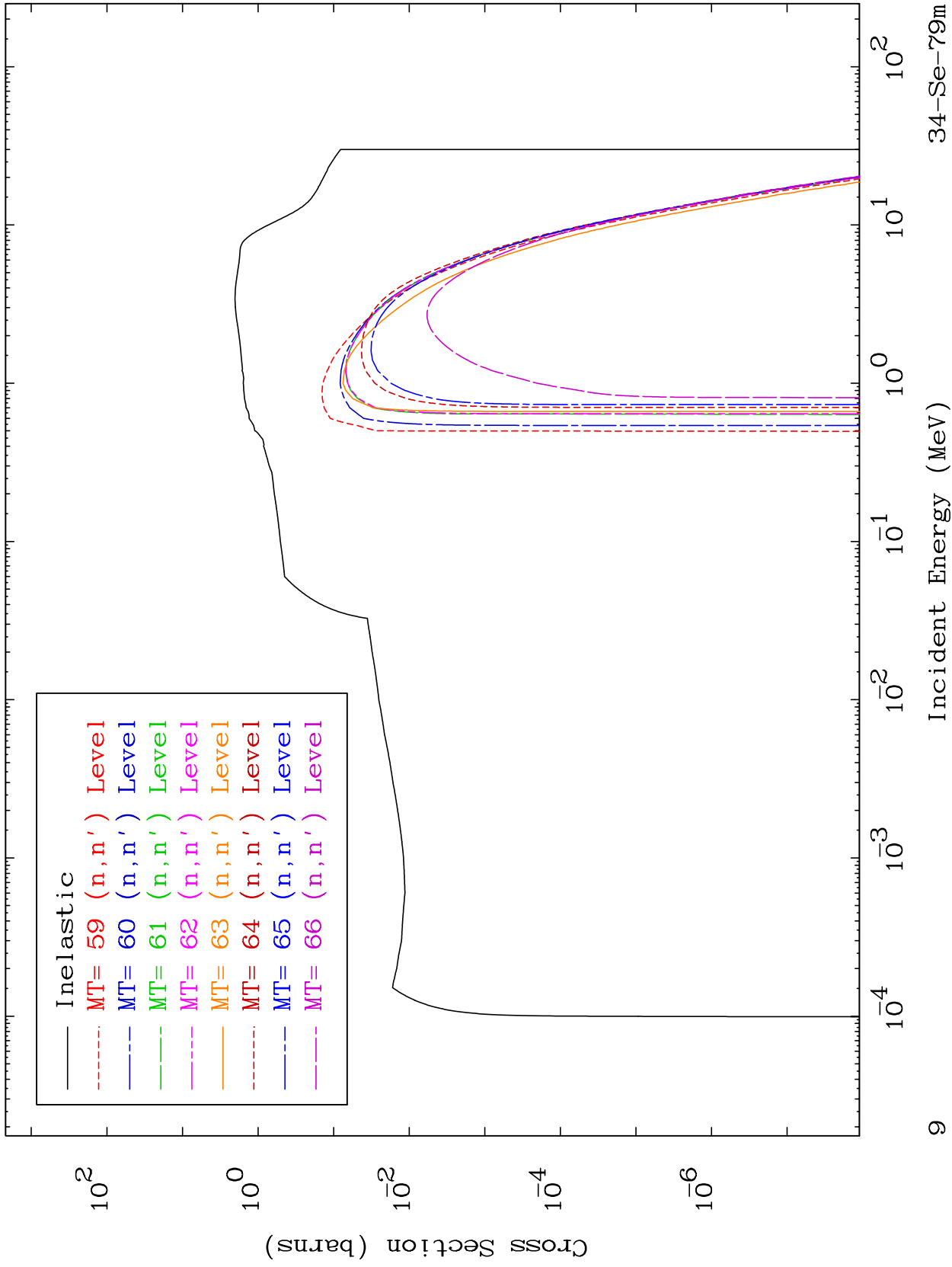
34-Se-79m



MAT 3441

(n,n') Levels
293 Kelvin Cross Sections

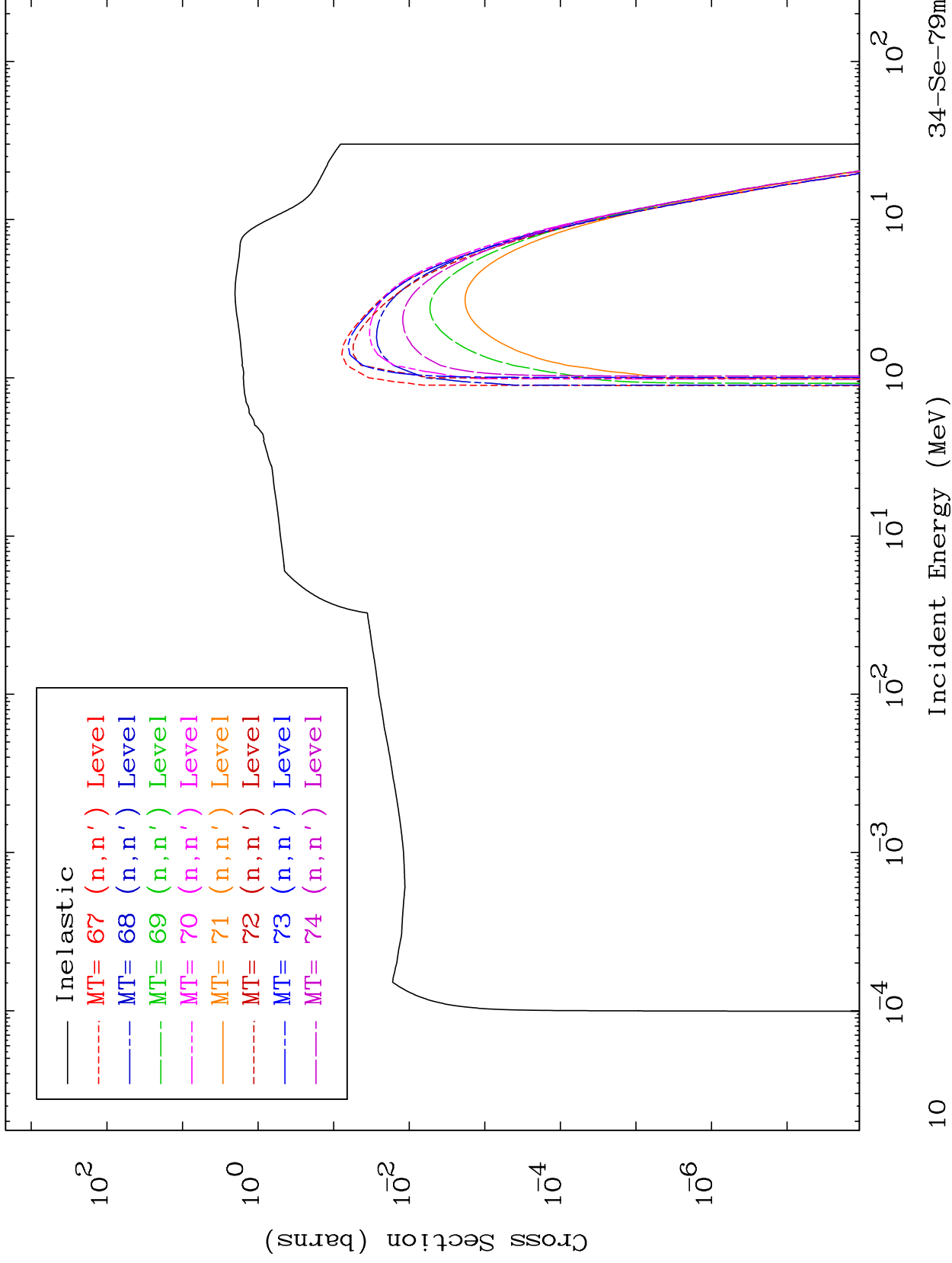
34-Se-79m



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(n,n') Levels
293 Kelvin Cross Sections

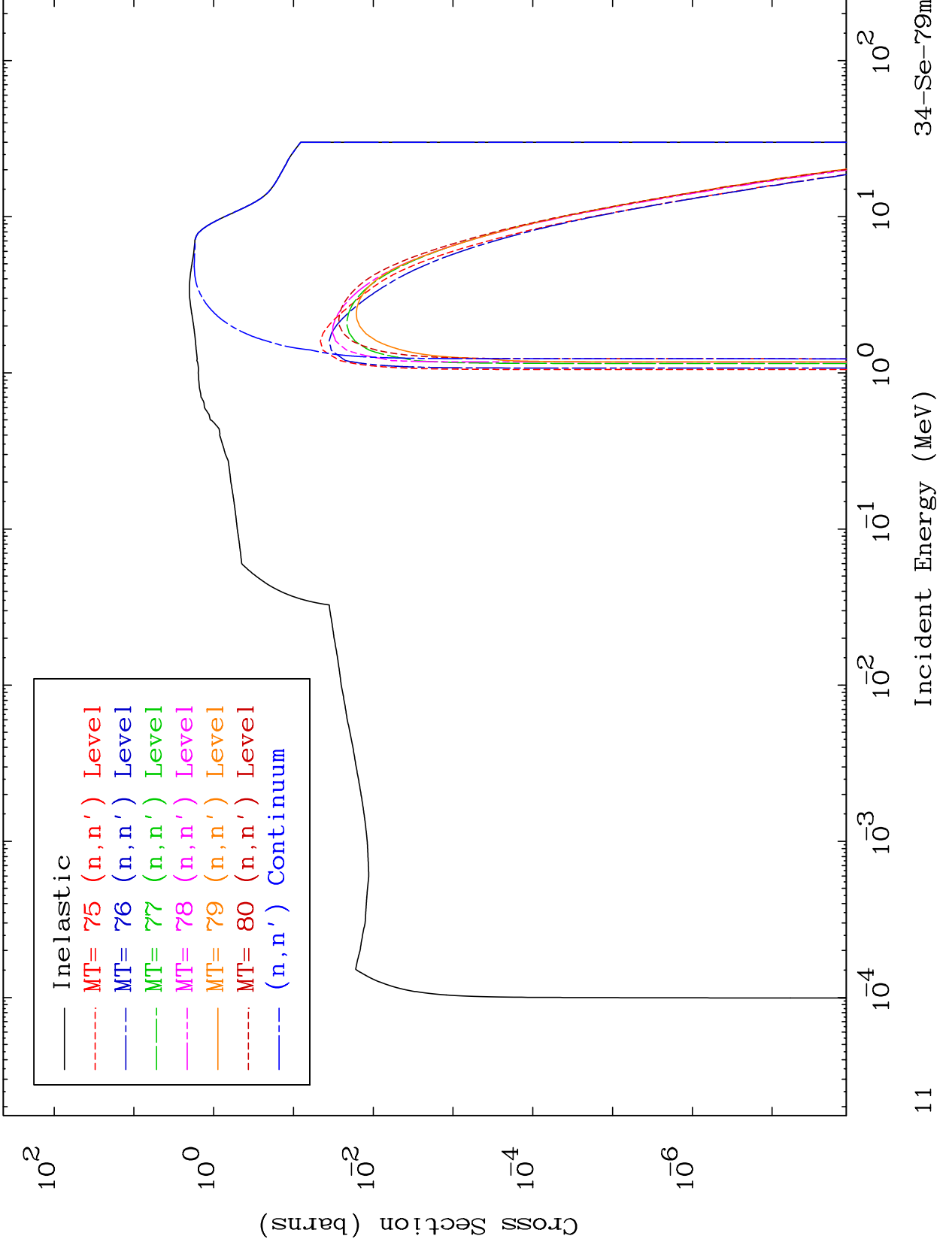
34-Se-79m



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(n,n') Levels
293 Kelvin Cross Sections

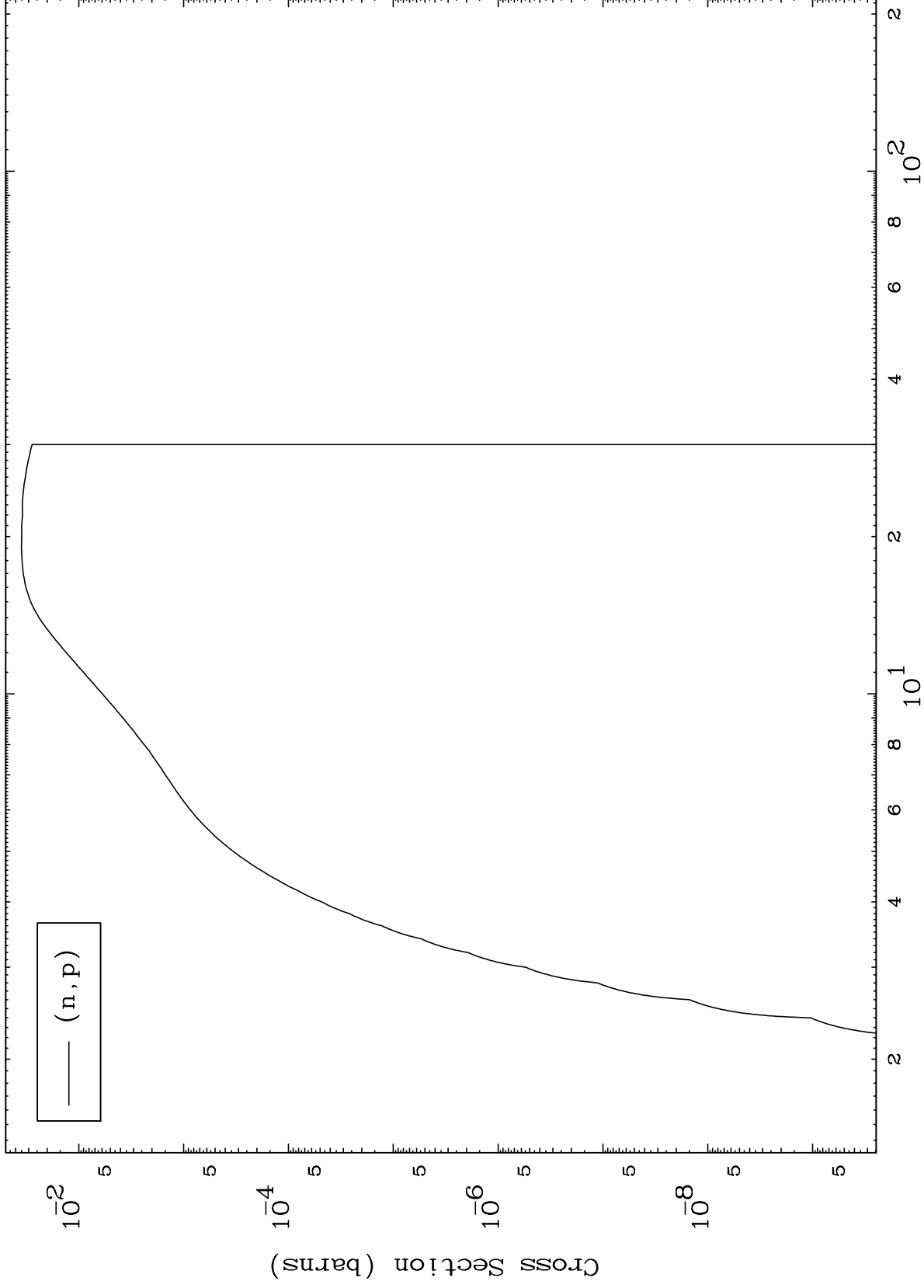
34-Se-79m



MAT 3441

(n,p) Levels
293 Kelvin Cross Sections

³⁴Se-79m



12

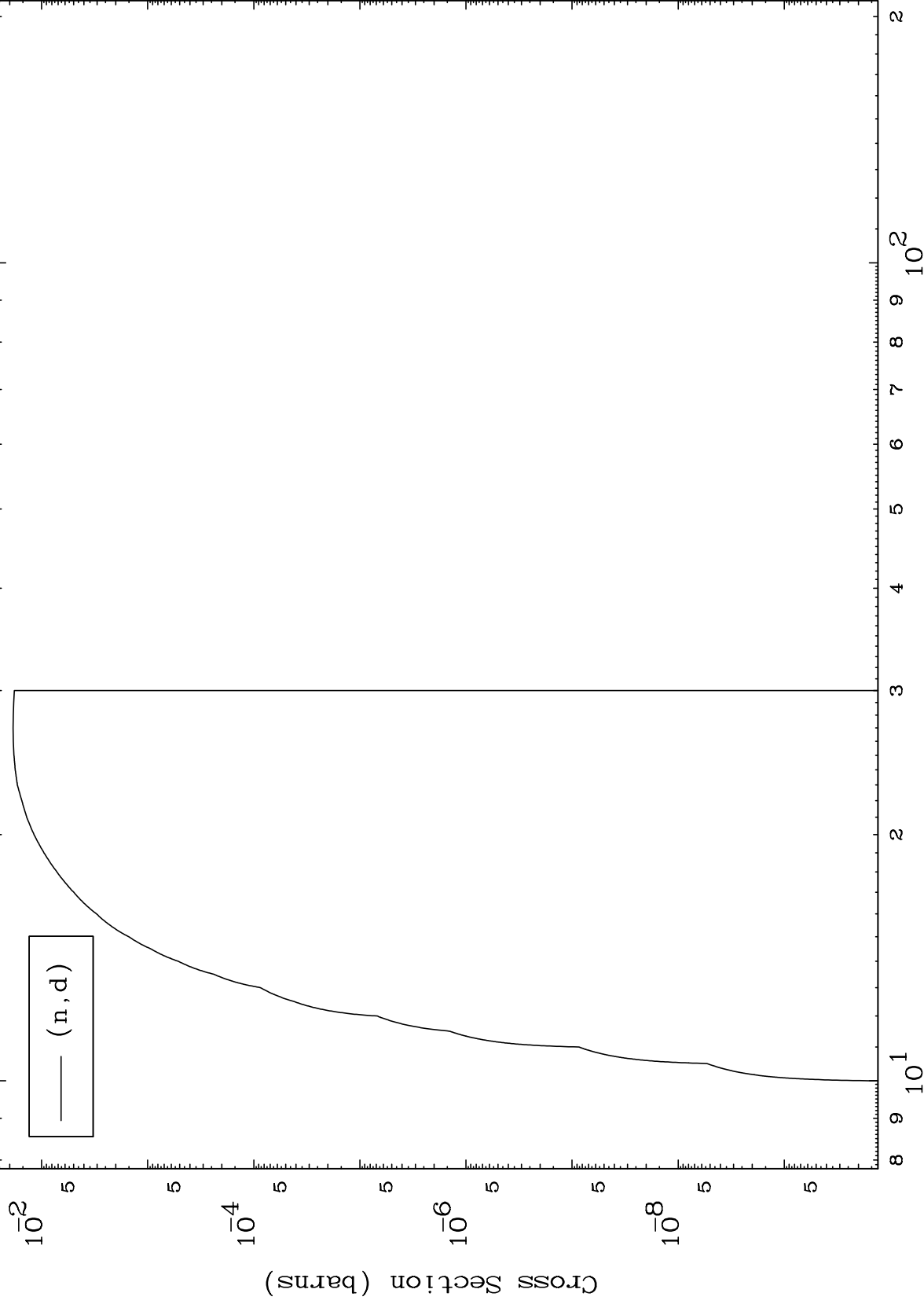
Incident Energy (MeV)

³⁴Se-79m

MAT 3441

(n,d) Levels
293 Kelvin Cross Sections

³⁴Se-79m



13

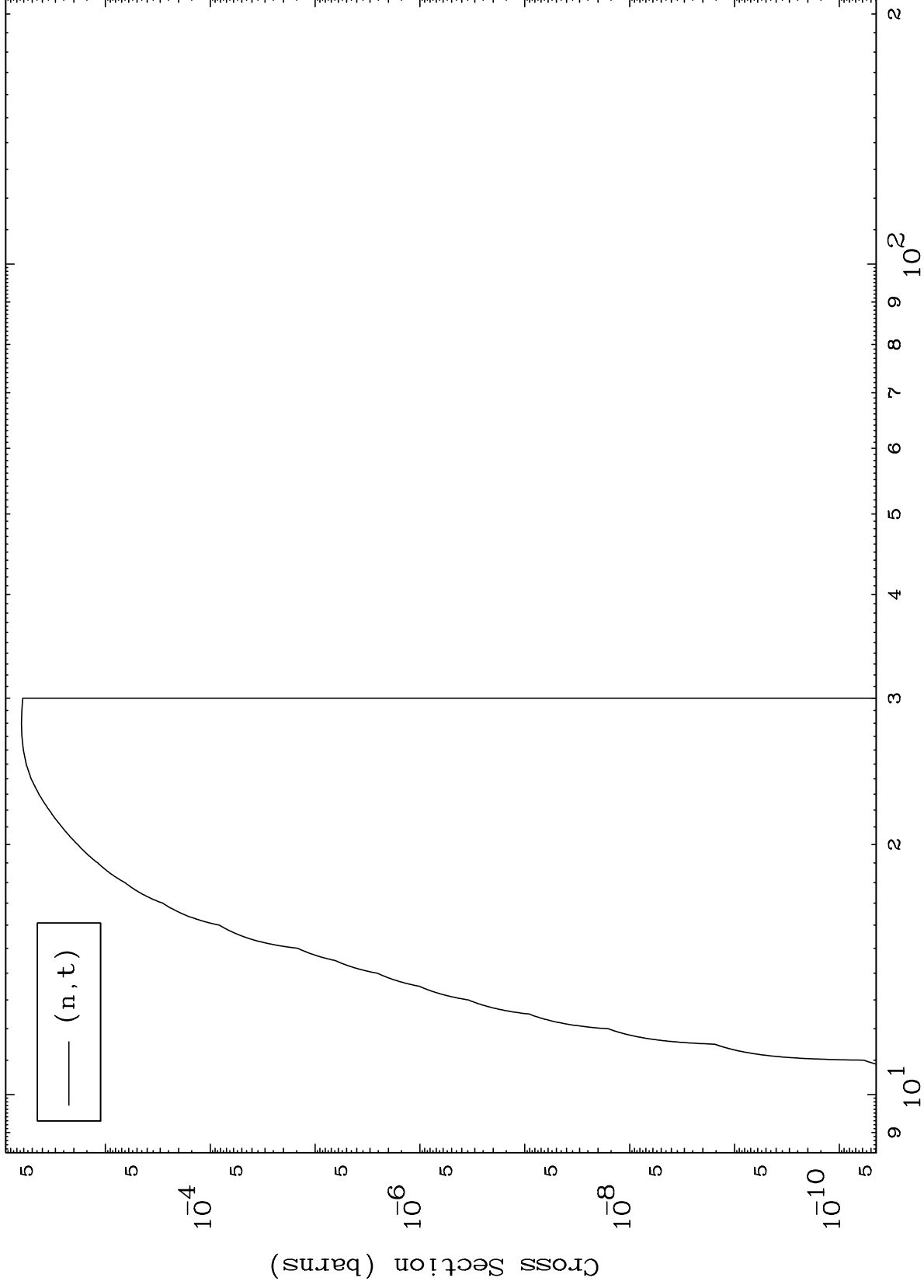
Incident Energy (MeV)

³⁴Se-79m

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(n,t) Levels
293 Kelvin Cross Sections

³⁴Se-79m



Incident Energy (MeV)

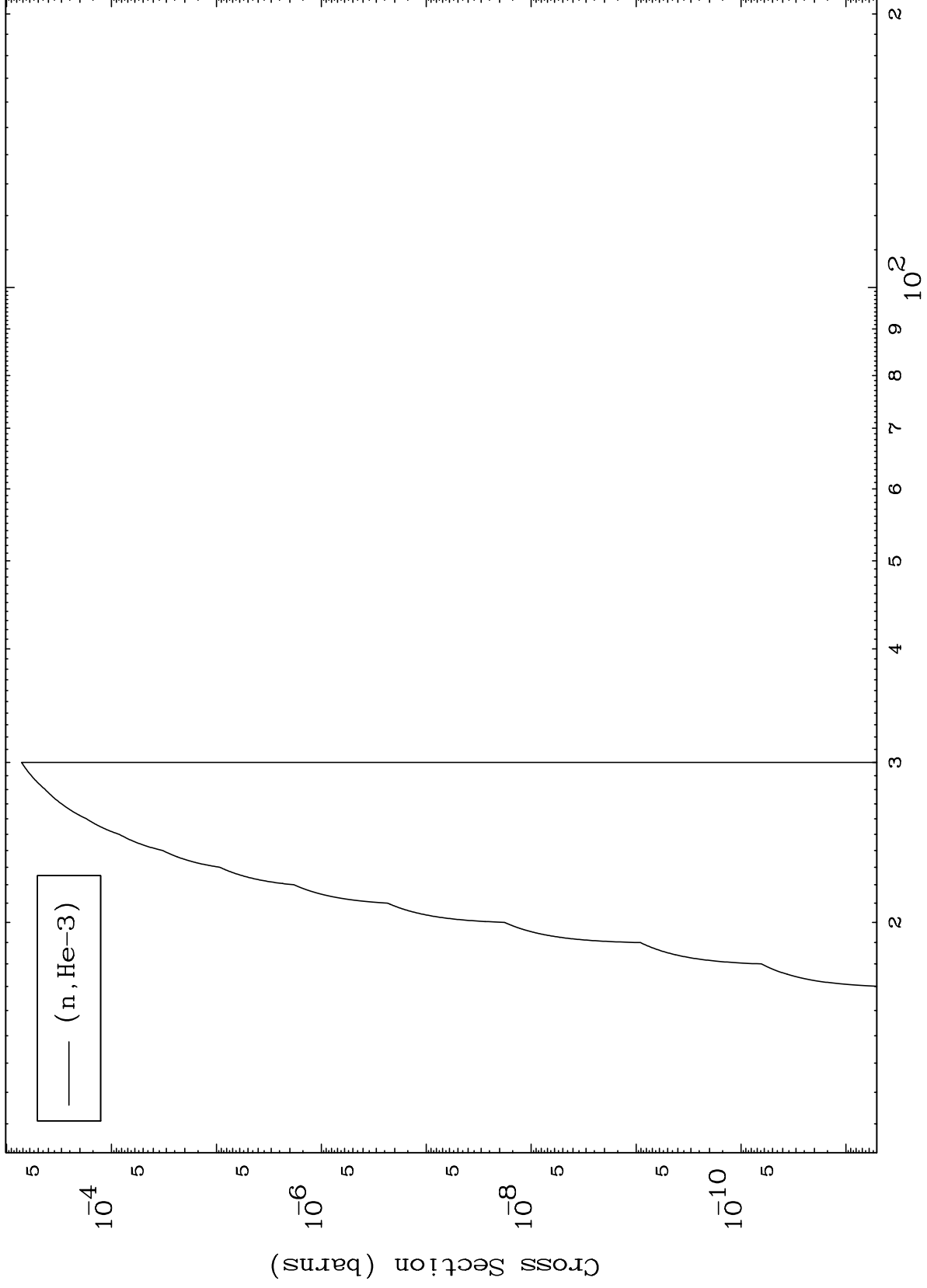
³⁴Se-79m

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(n,He3) Levels
293 Kelvin Cross Sections

34-Se-79m



15

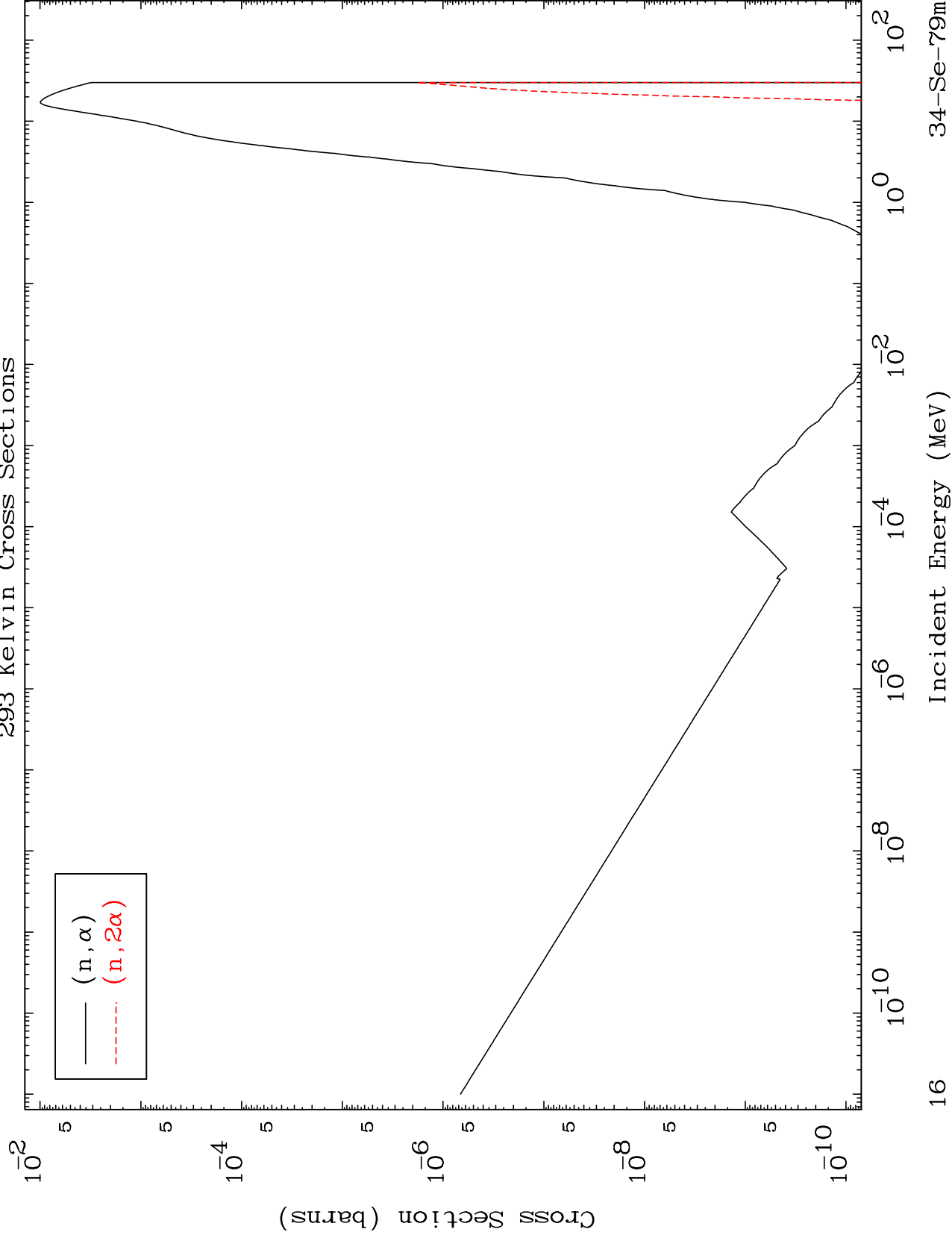
Incident Energy (MeV)

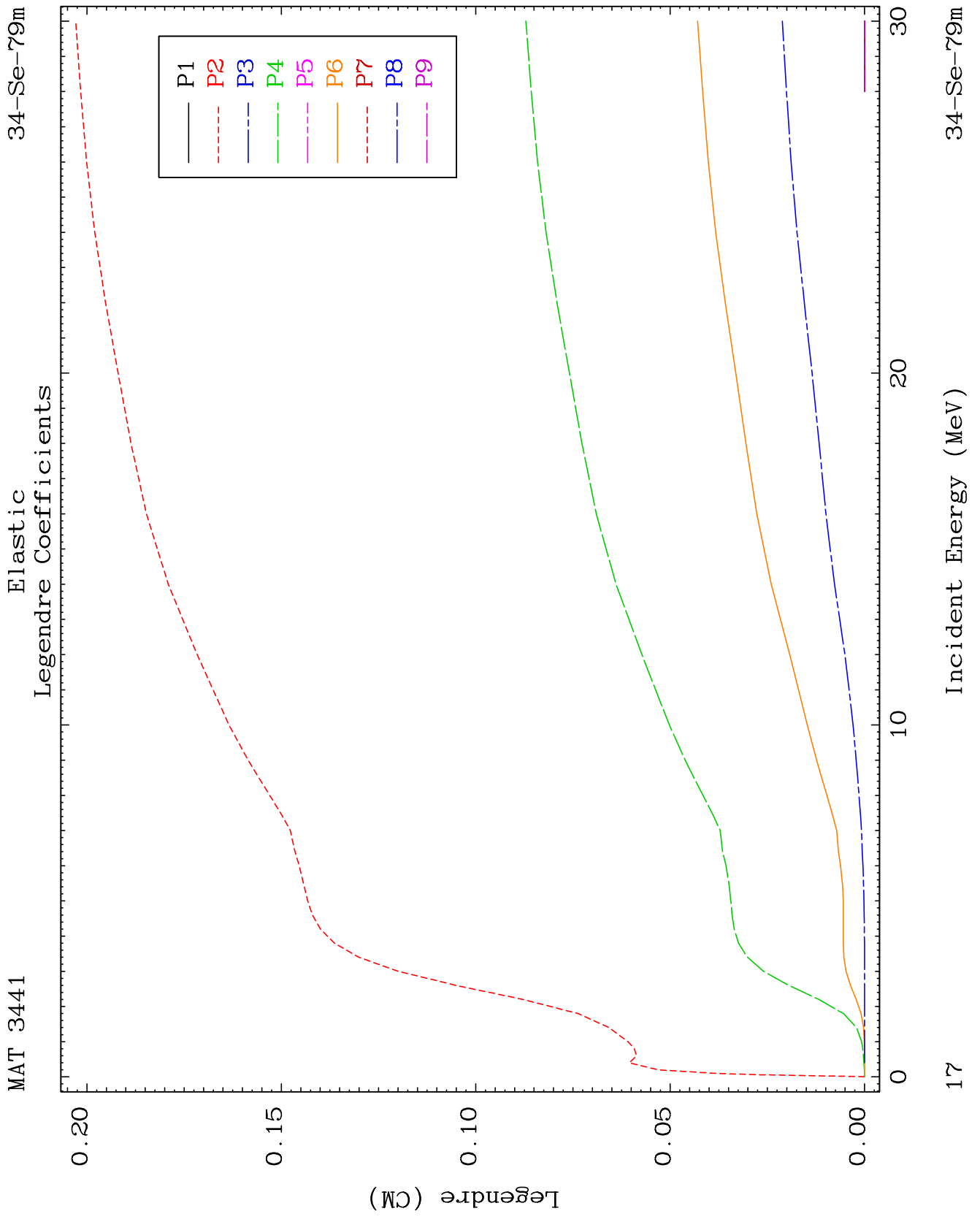
34-Se-79m

MAT 3441

(n, α) Levels
293 Kelvin Cross Sections

34-Se-79m





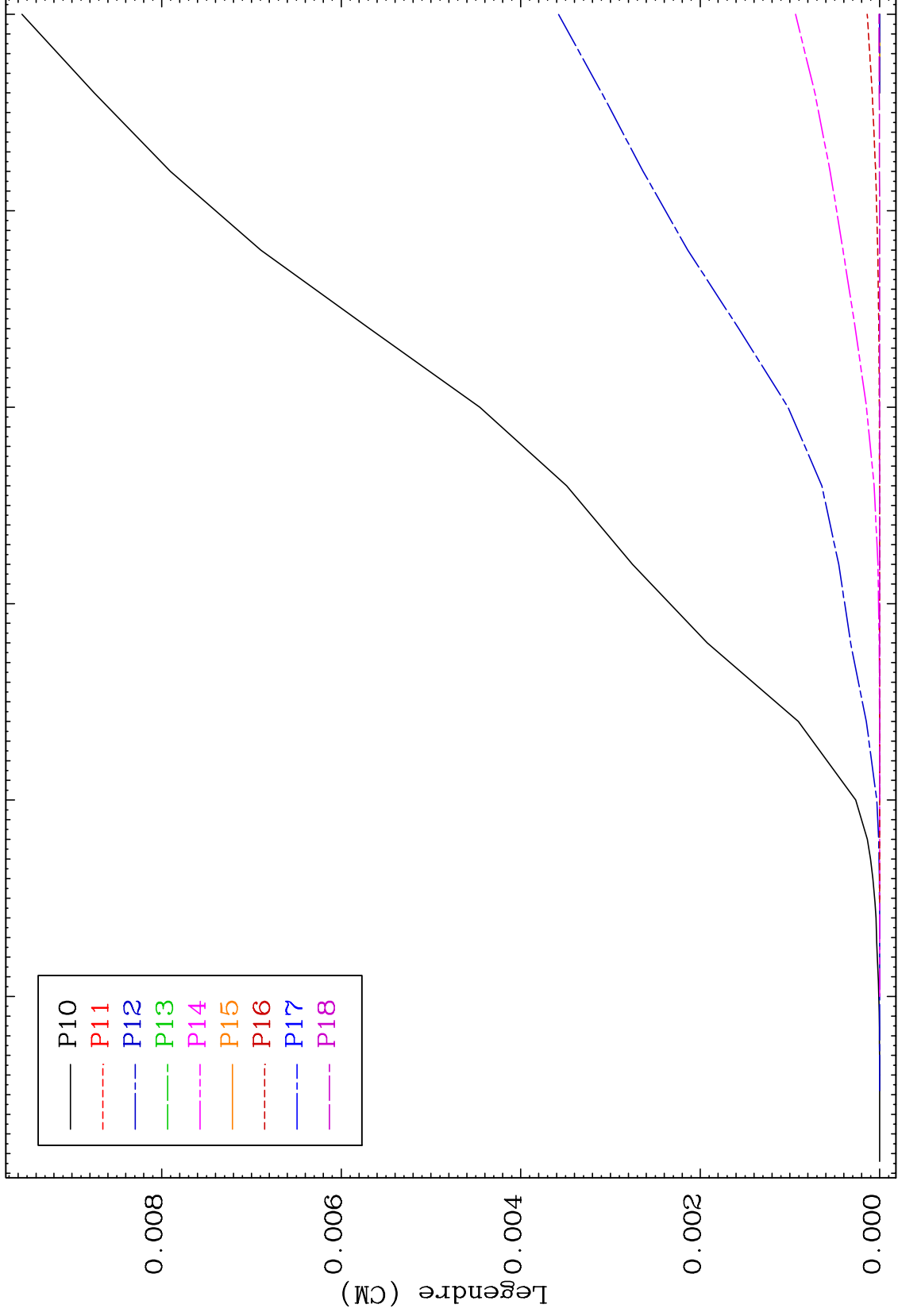
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Elastic
Legendre Coefficients

³⁴Se-⁷⁹m



18

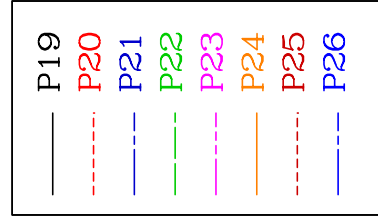
Incident Energy (MeV)

³⁴Se-⁷⁹m

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Elastic
Legendre Coefficients

³⁴Se-⁷⁹m



$\times 10^{-7}$

Legendre (CM)



19

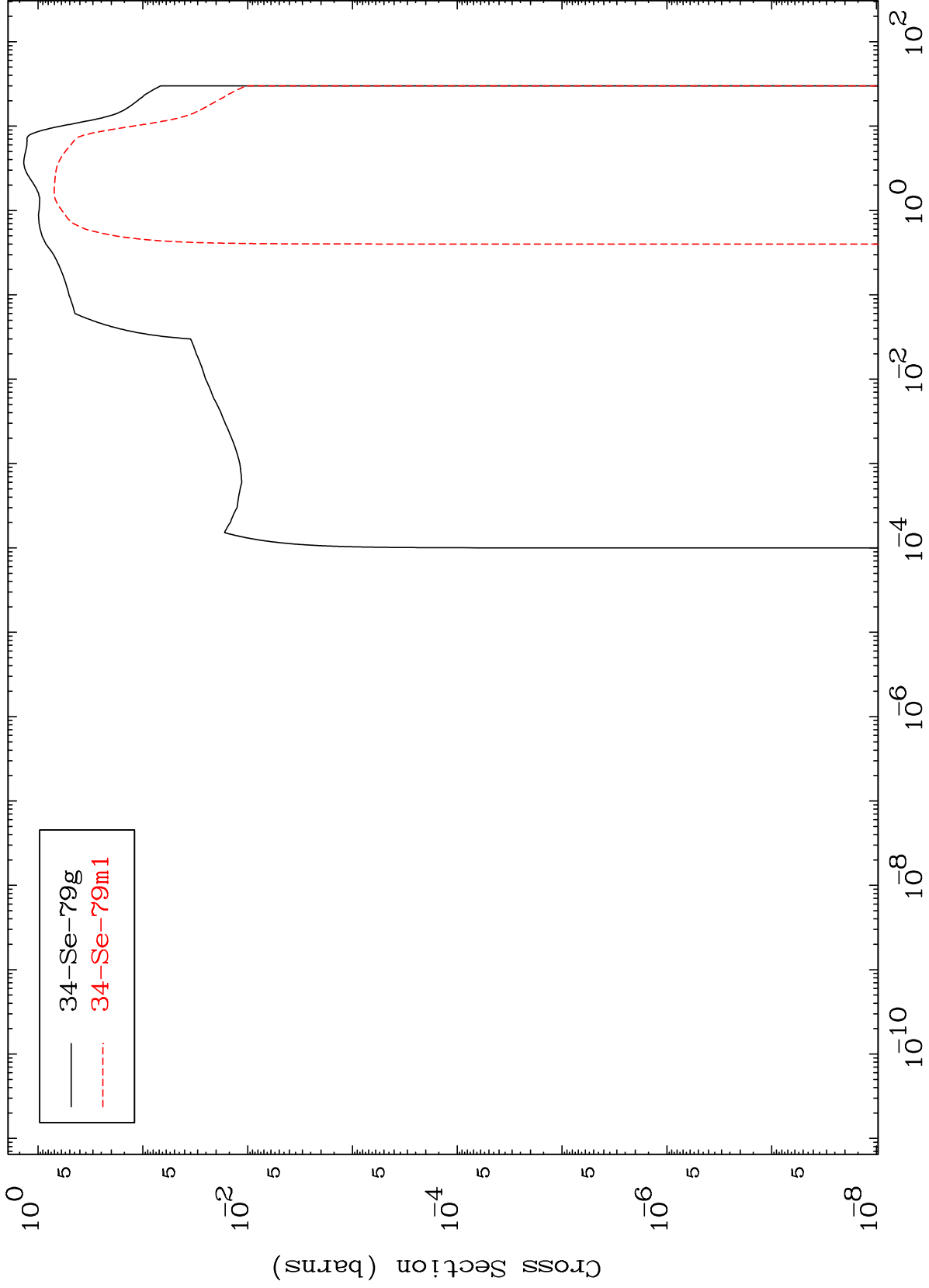
Incident Energy (MeV)

³⁴Se-⁷⁹m

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Inelastic
Radionuclide Production Cross Section

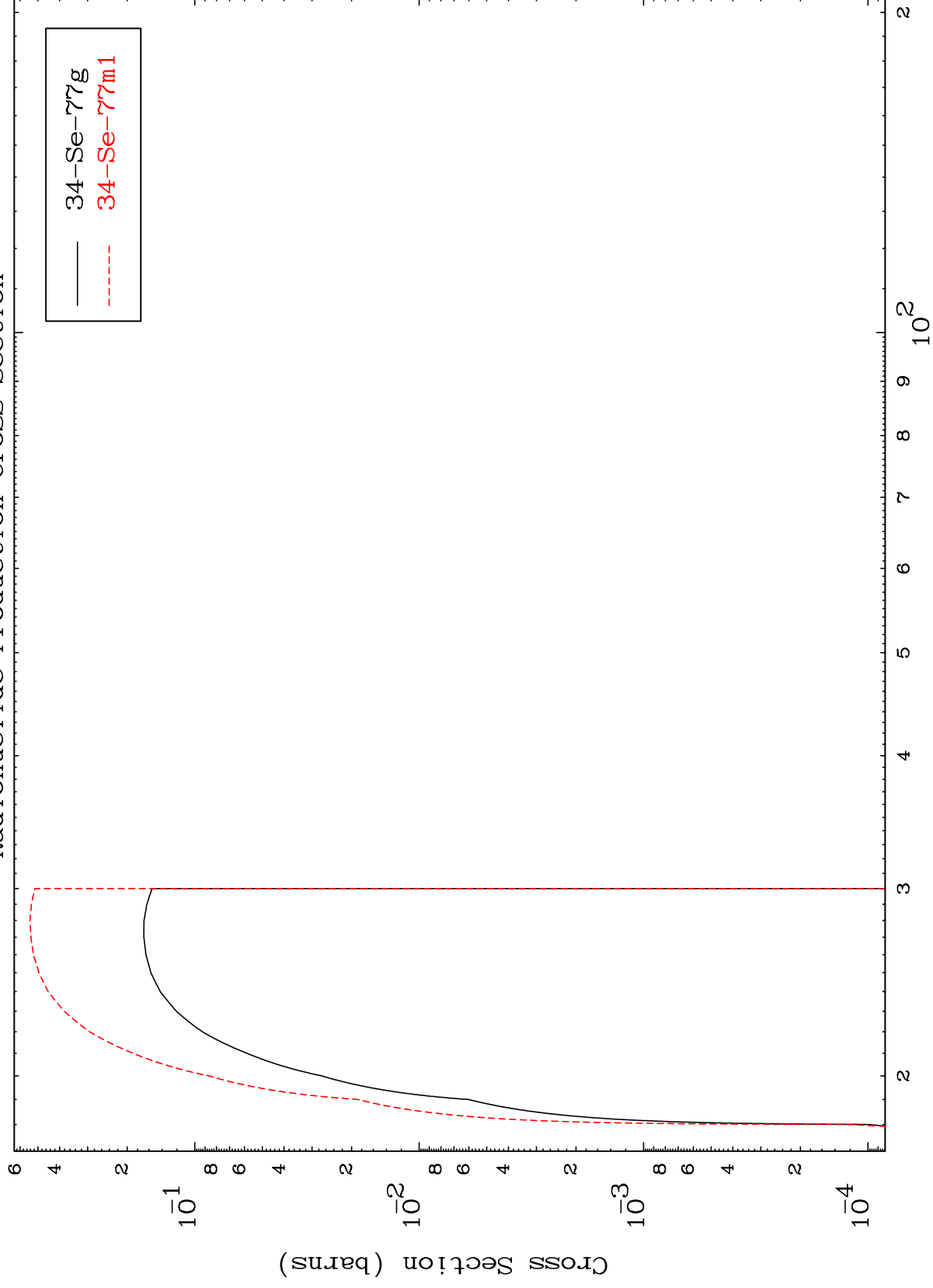
³⁴Se-⁷⁹m



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³⁴Se-⁷⁹m

(n,3n)
Radionuclide Production Cross Section



21

Incident Energy (MeV)

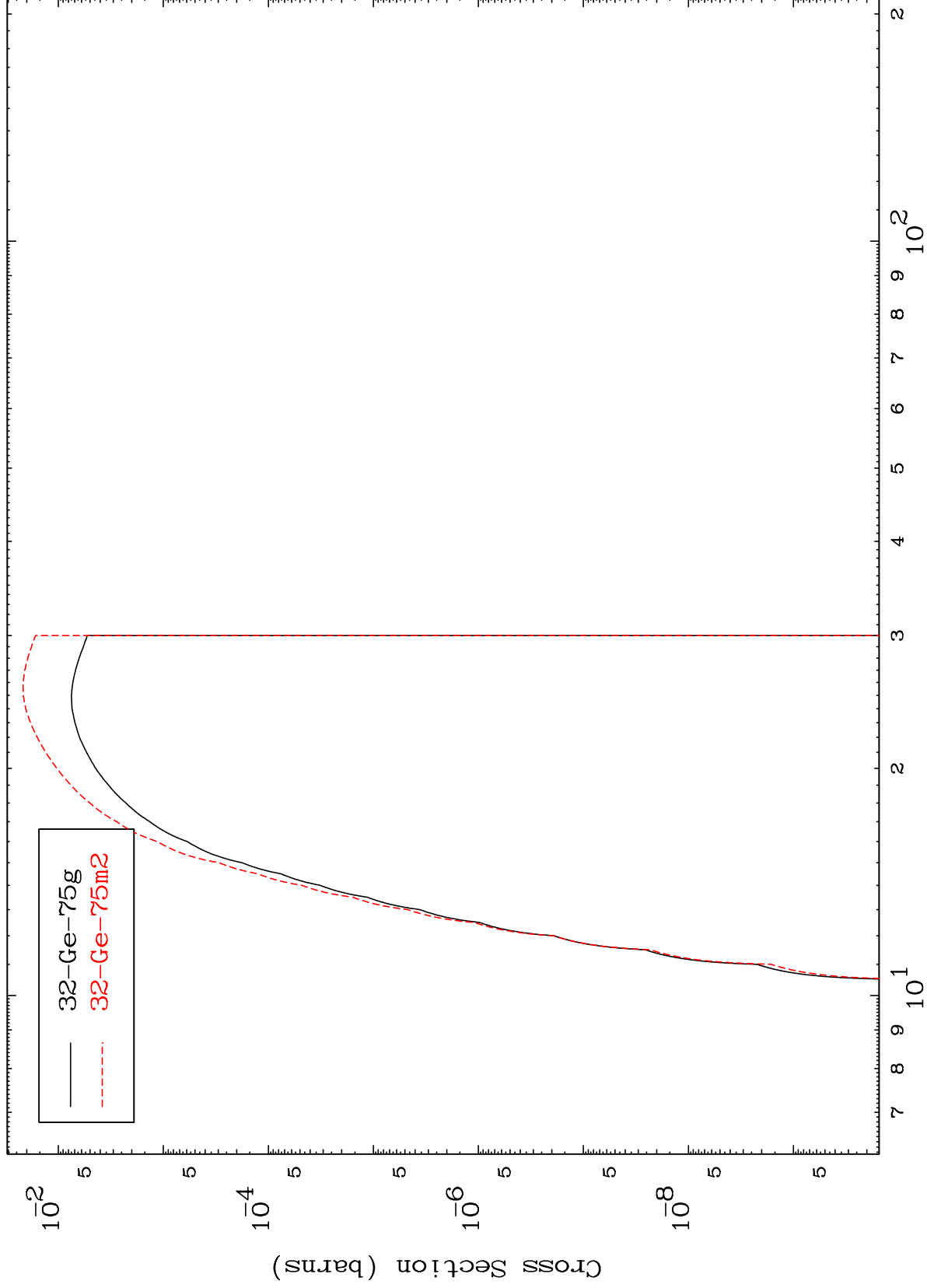
³⁴Se-⁷⁹m

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$(n, n') \alpha$

$^{34}\text{Se-}^{79}\text{m}$

Radionuclide Production Cross Section



22

Incident Energy (MeV)

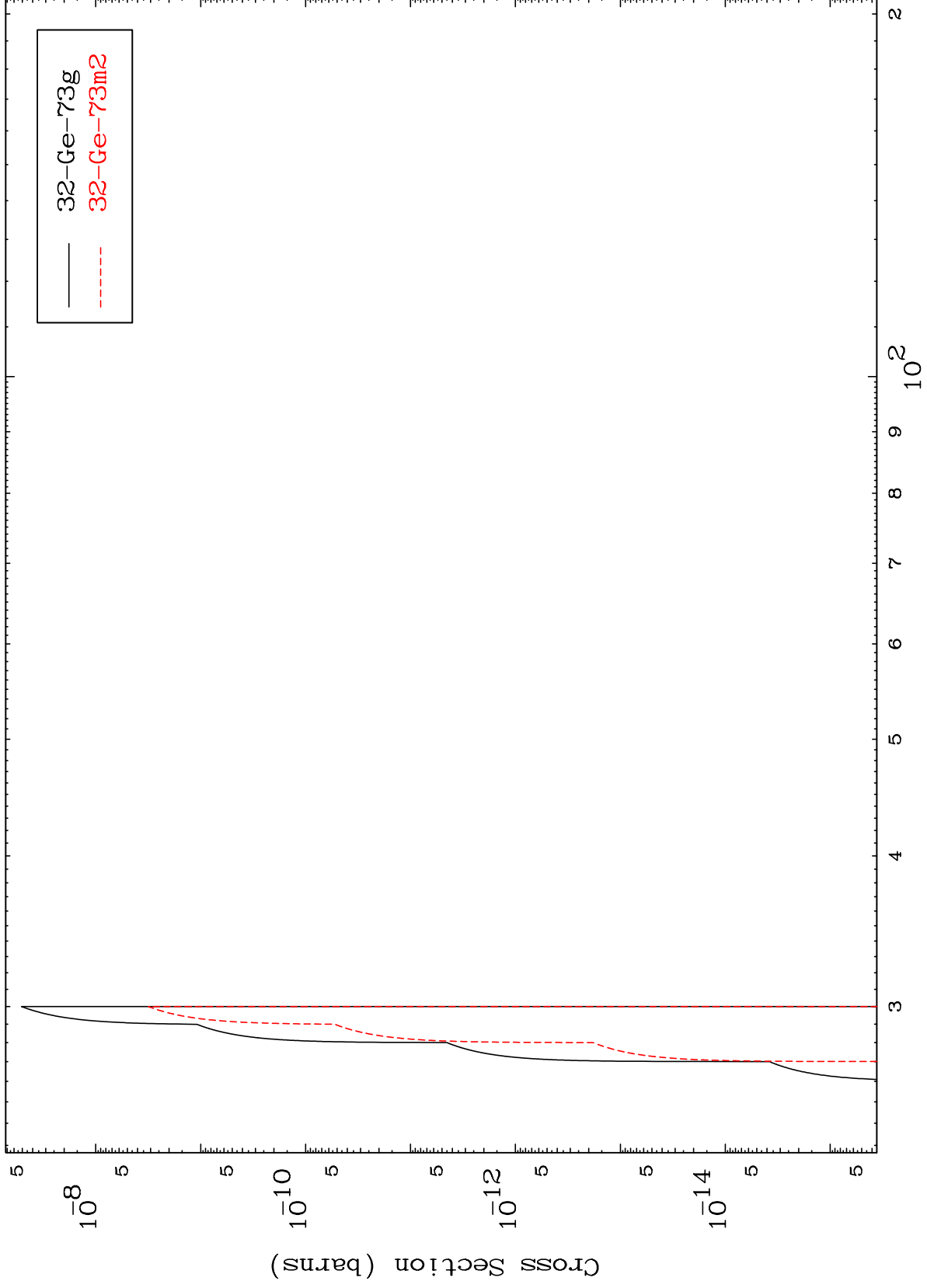
$^{34}\text{Se-}^{79}\text{m}$

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(n,3n) α

³⁴Se-⁷⁹m

Radionuclide Production Cross Section



23

Incident Energy (MeV)

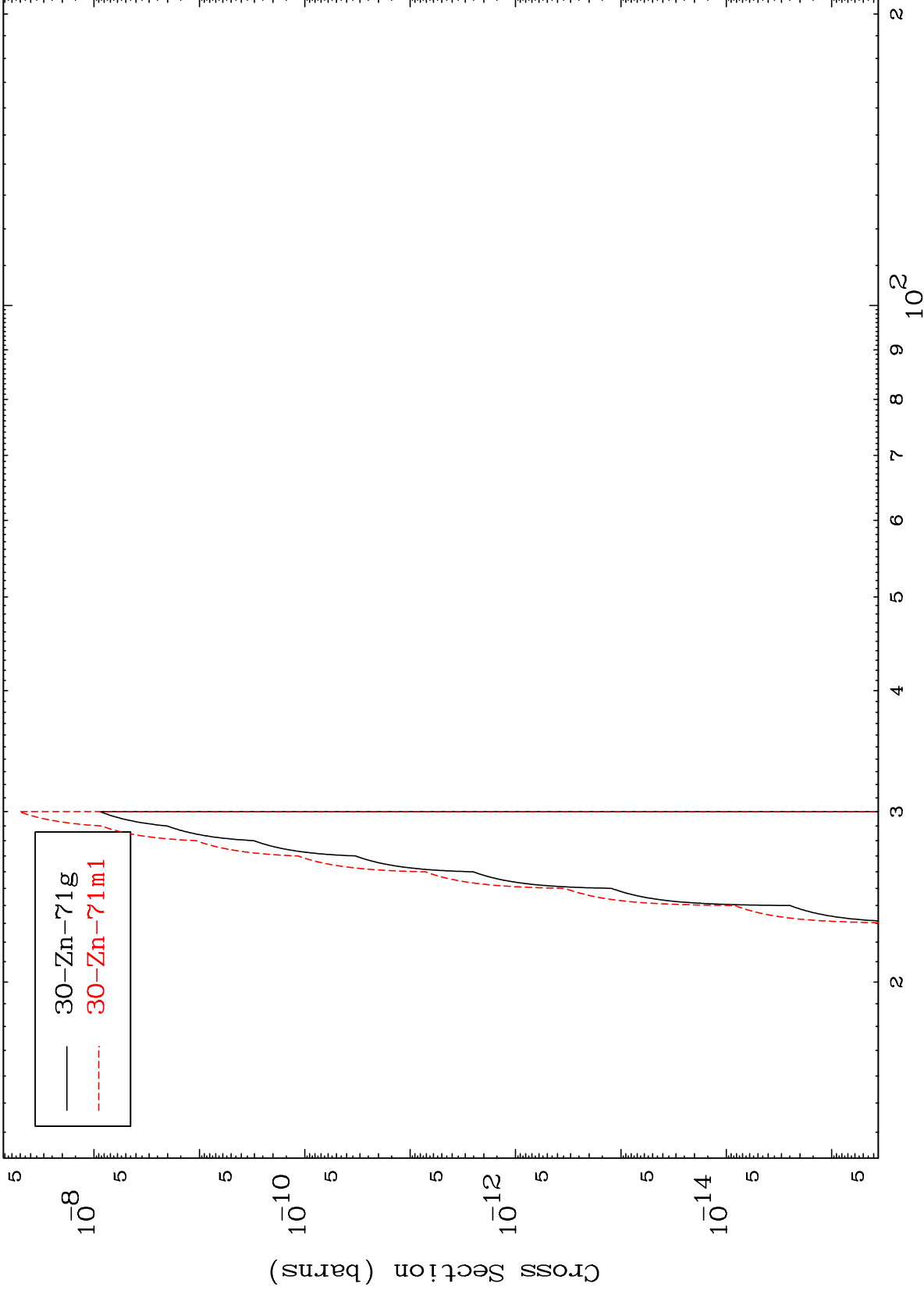
³⁴Se-⁷⁹m

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(n,n') 2α

³⁴Se-⁷⁹m

Radionuclide Production Cross Section



24

Incident Energy (MeV)

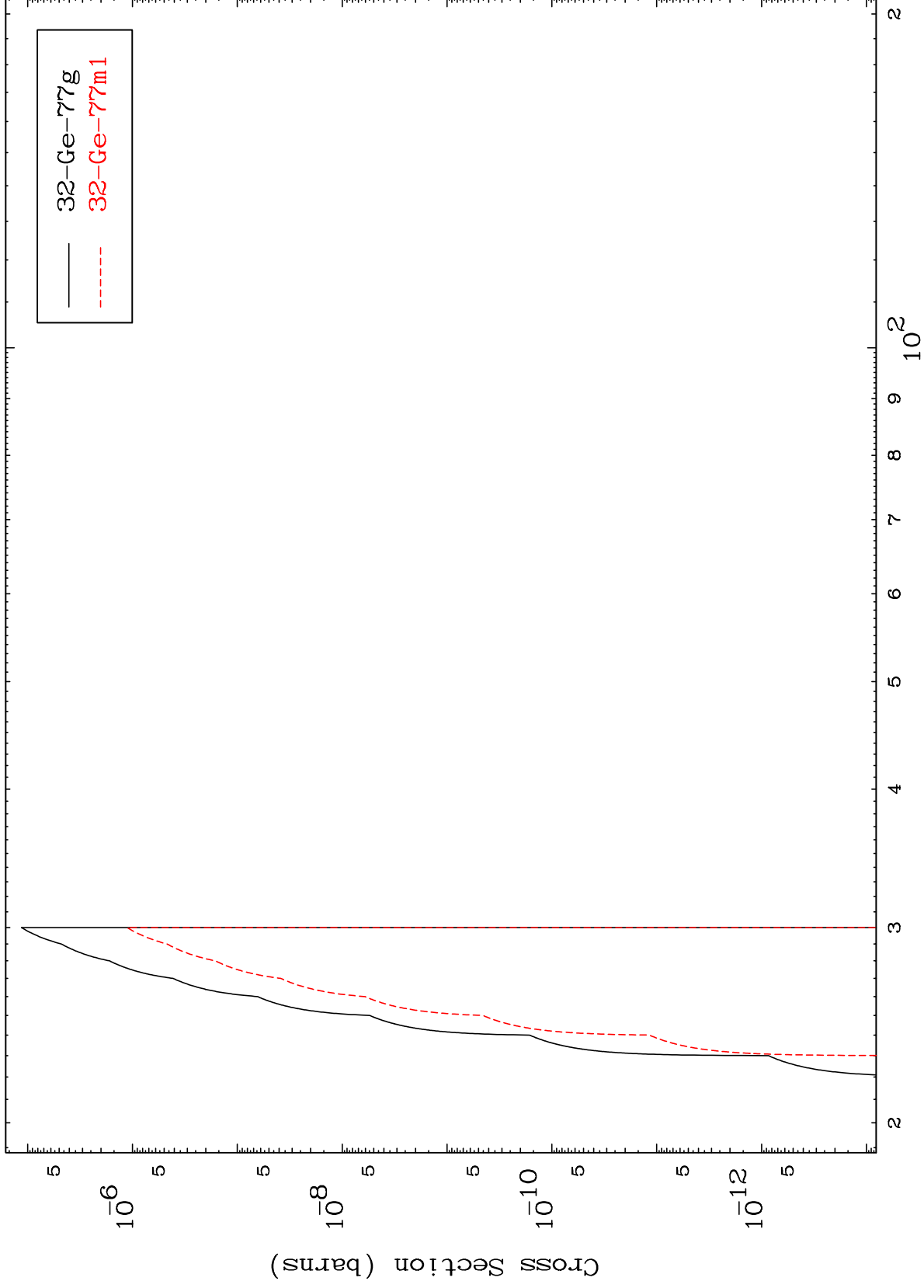
³⁴Se-⁷⁹m

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(n,2n) p

³⁴Se-⁷⁹m

Radionuclide Production Cross Section



25

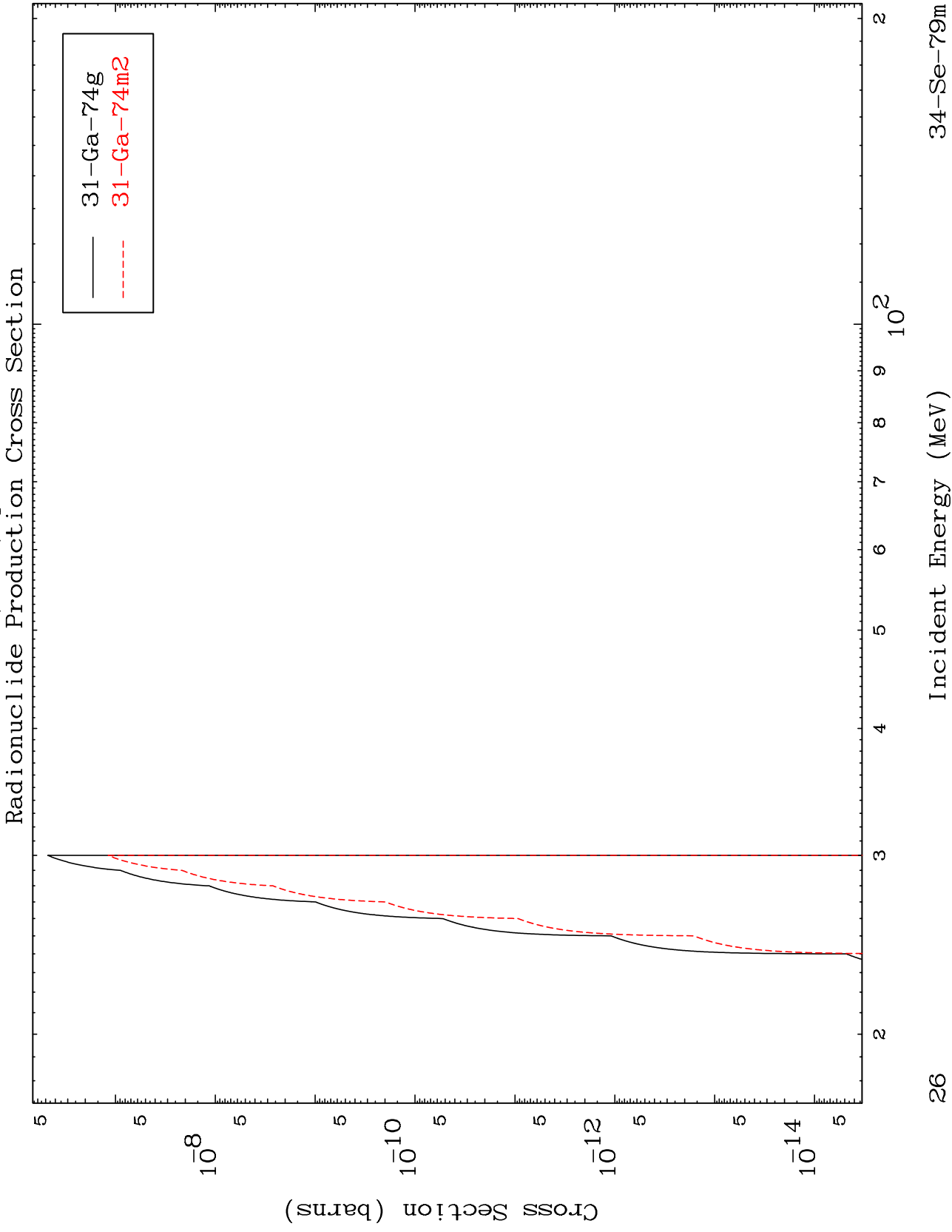
Incident Energy (MeV)

³⁴Se-⁷⁹m

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(n,n') p α

34-Se-79m



26

Incident Energy (MeV)

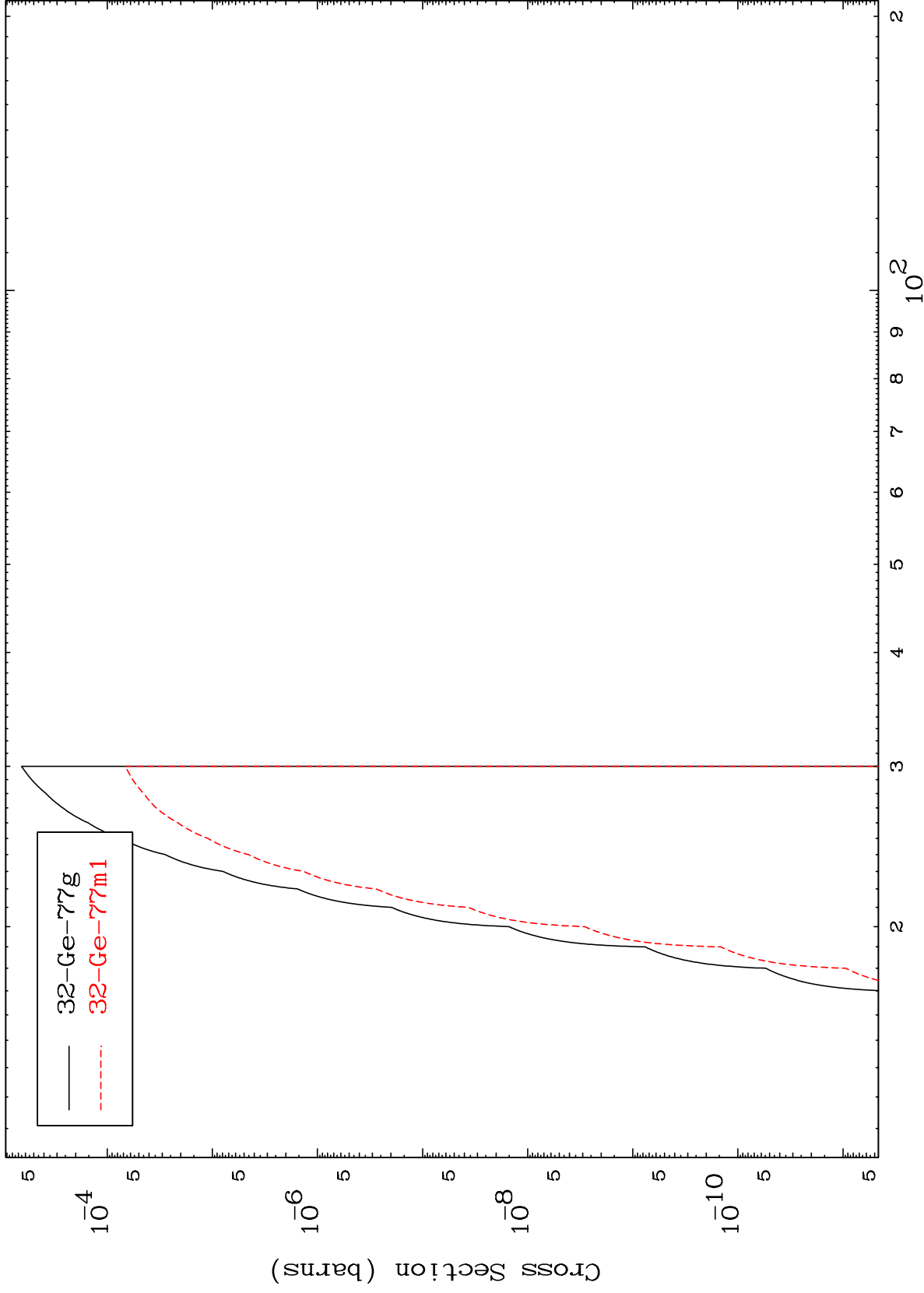
34-Se-79m

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(n,He-3)

³⁴Se-⁷⁹m

Radionuclide Production Cross Section



27

Incident Energy (MeV)

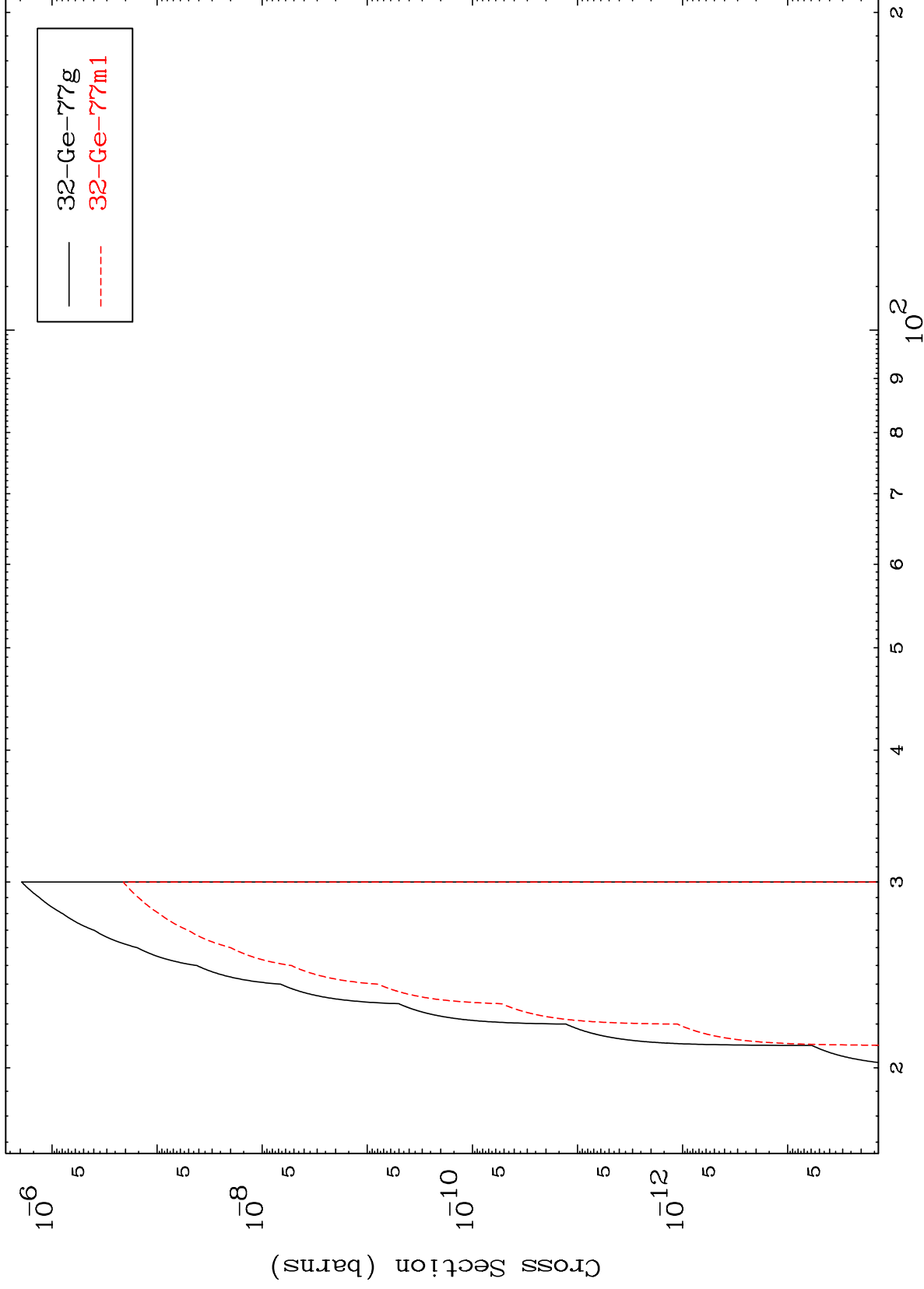
³⁴Se-⁷⁹m

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(n,p) d

34-⁷⁹Se

Radionuclide Production Cross Section



28

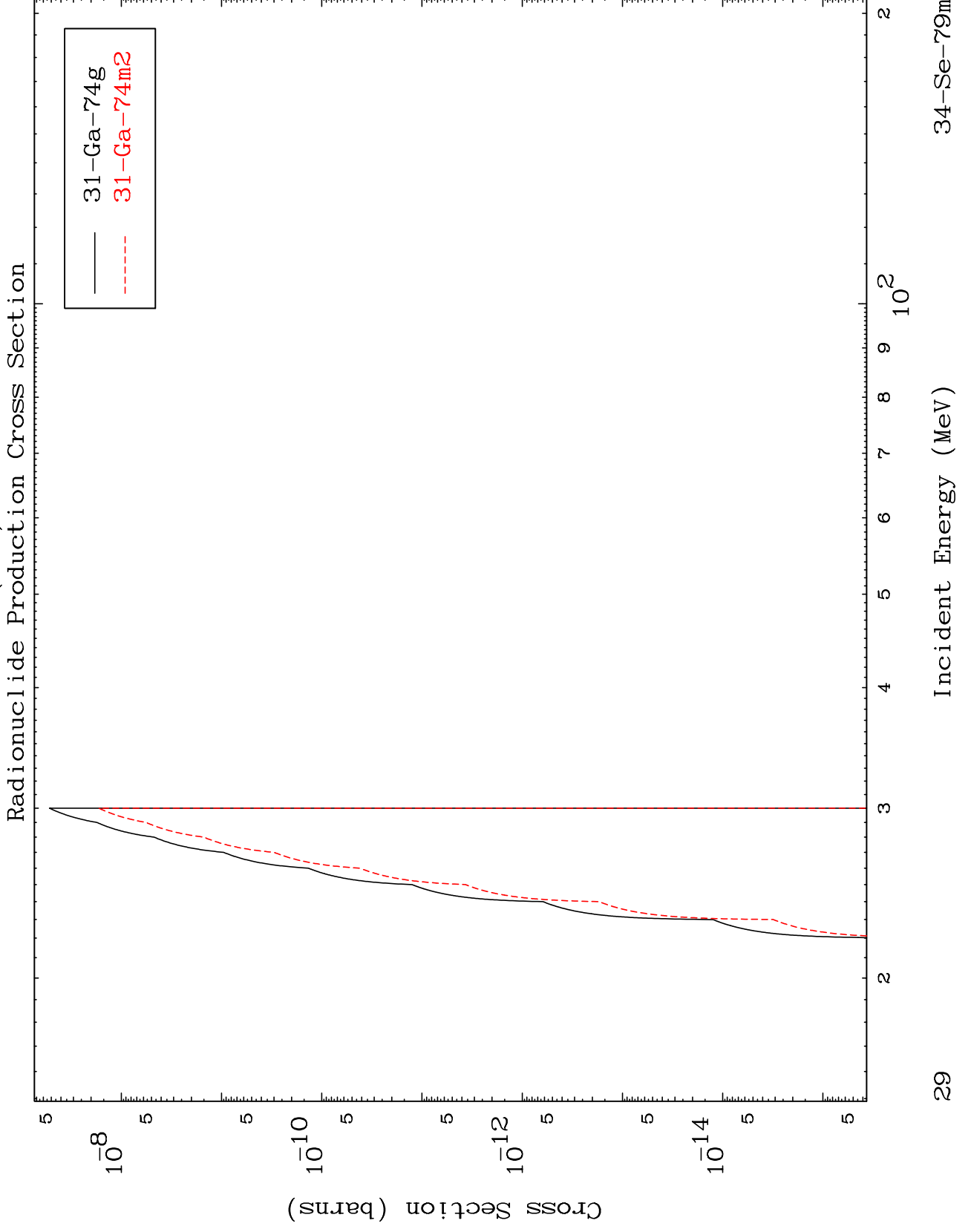
Incident Energy (MeV)

34-⁷⁹Se

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(n,d) α

34-Se-79m



29

34-Se-79m