

Program EVALPLOT
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

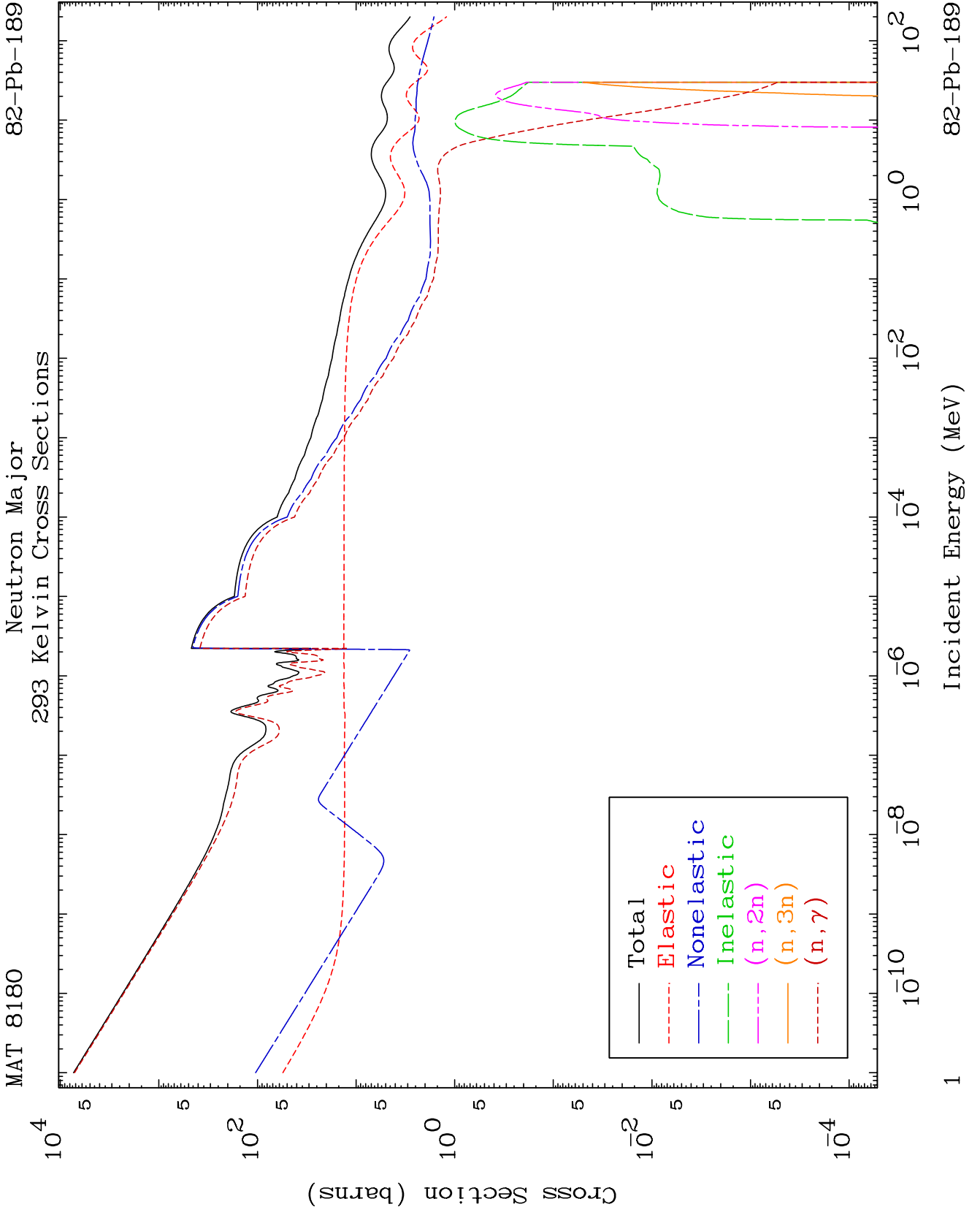
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E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

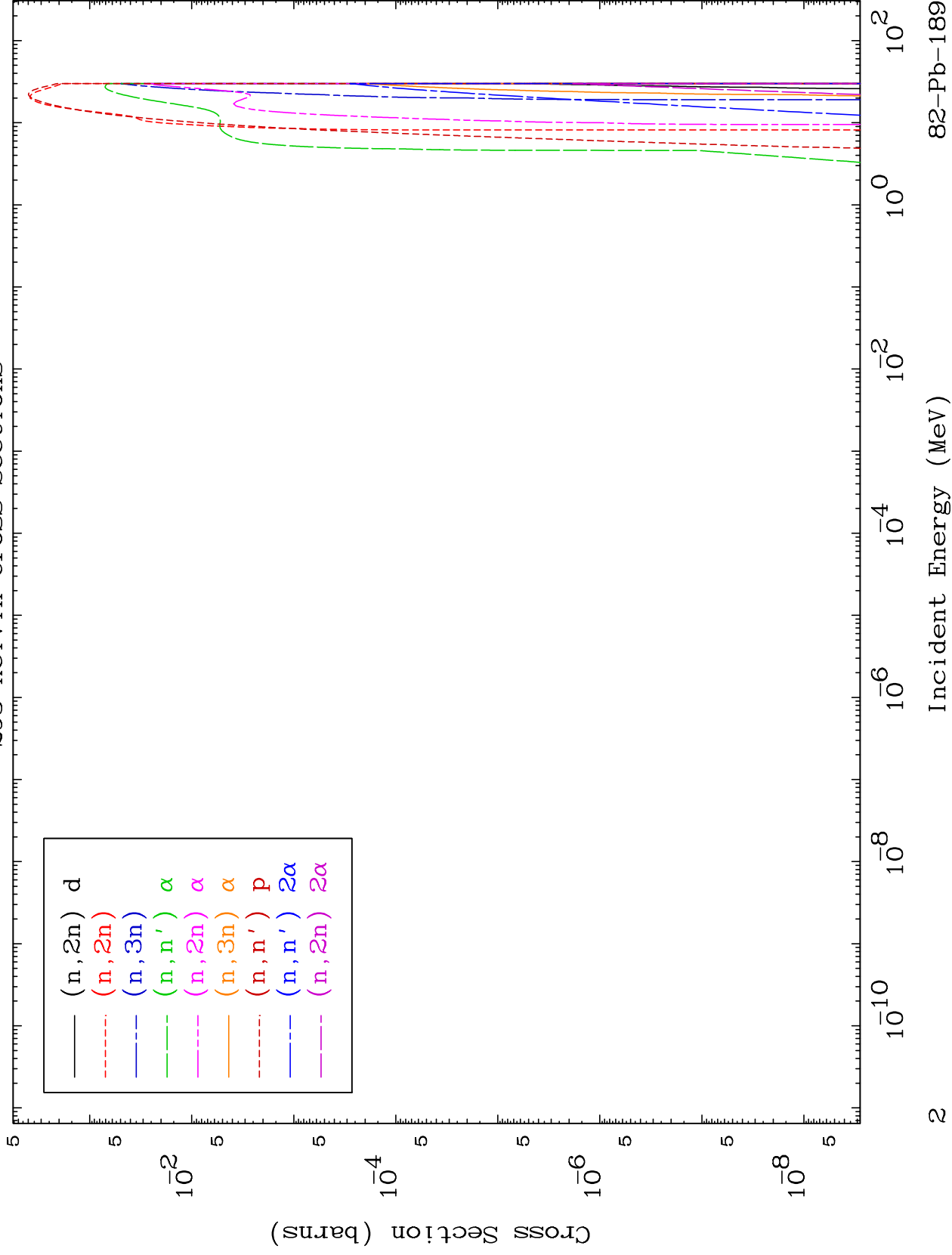
Press Mouse Button to Start



MAT 8180

Neutron Absorption
293 Kelvin Cross Sections

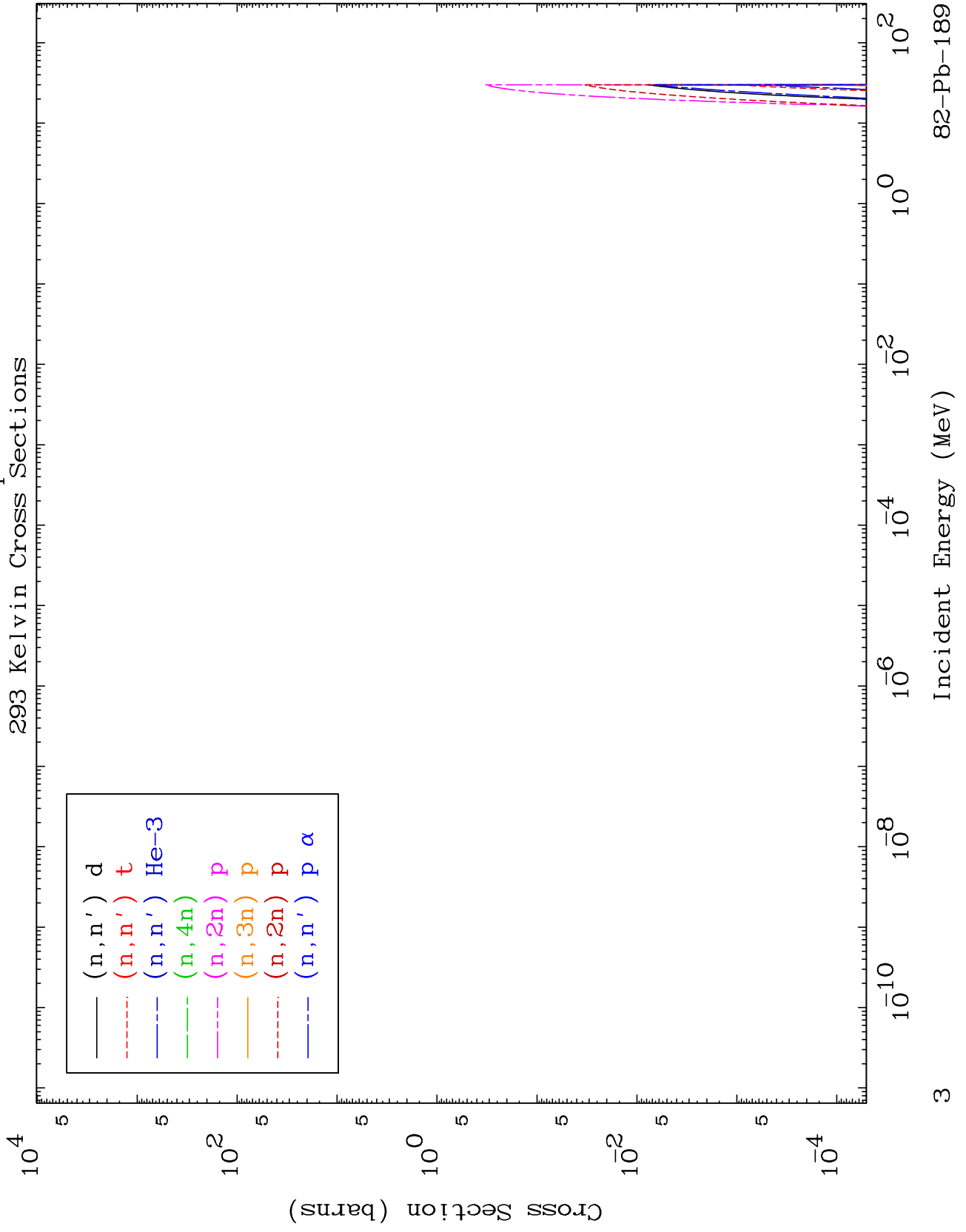
82-Pb-189

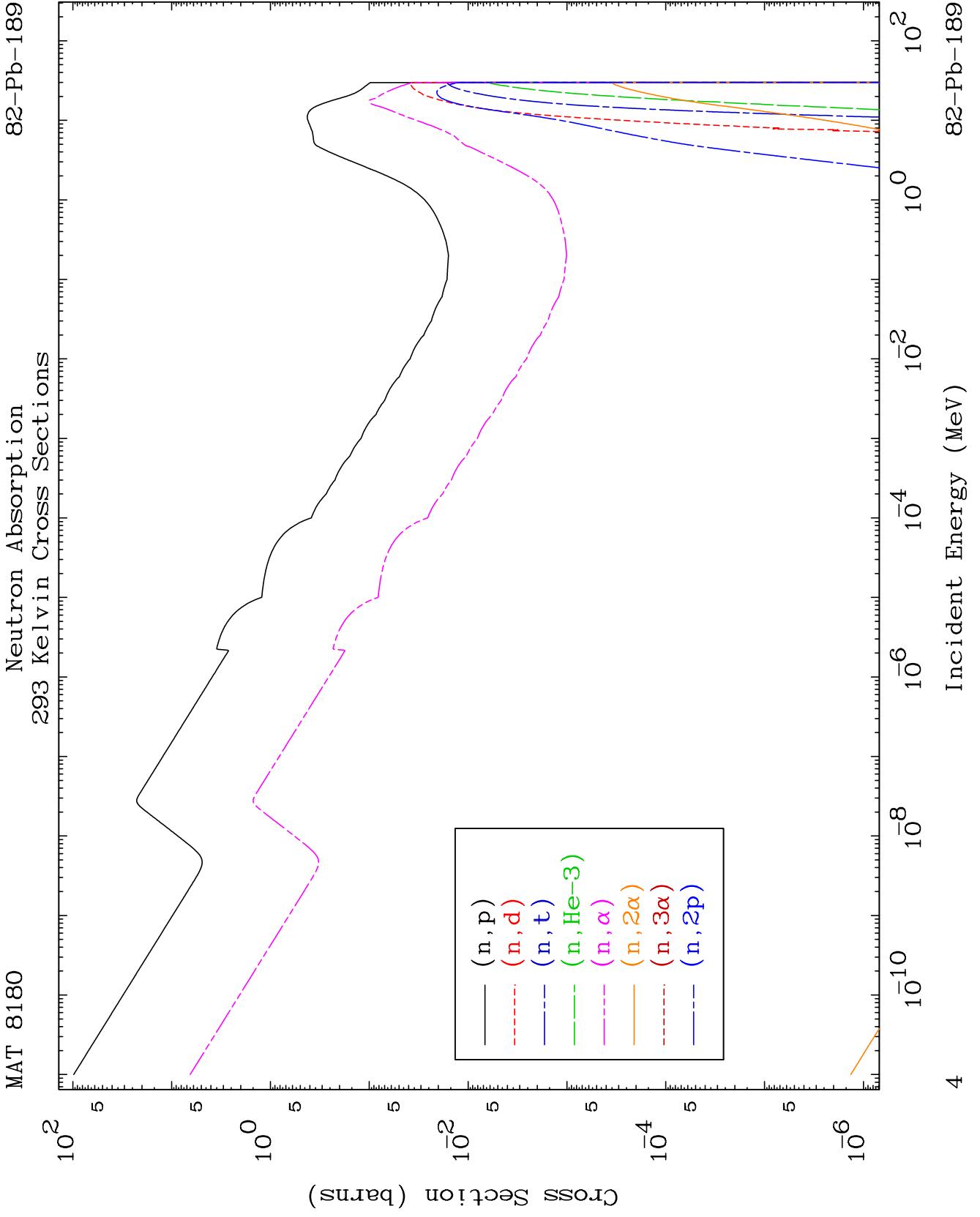


MAT 8180

Neutron Absorption
293 Kelvin Cross Sections

82-Pb-189

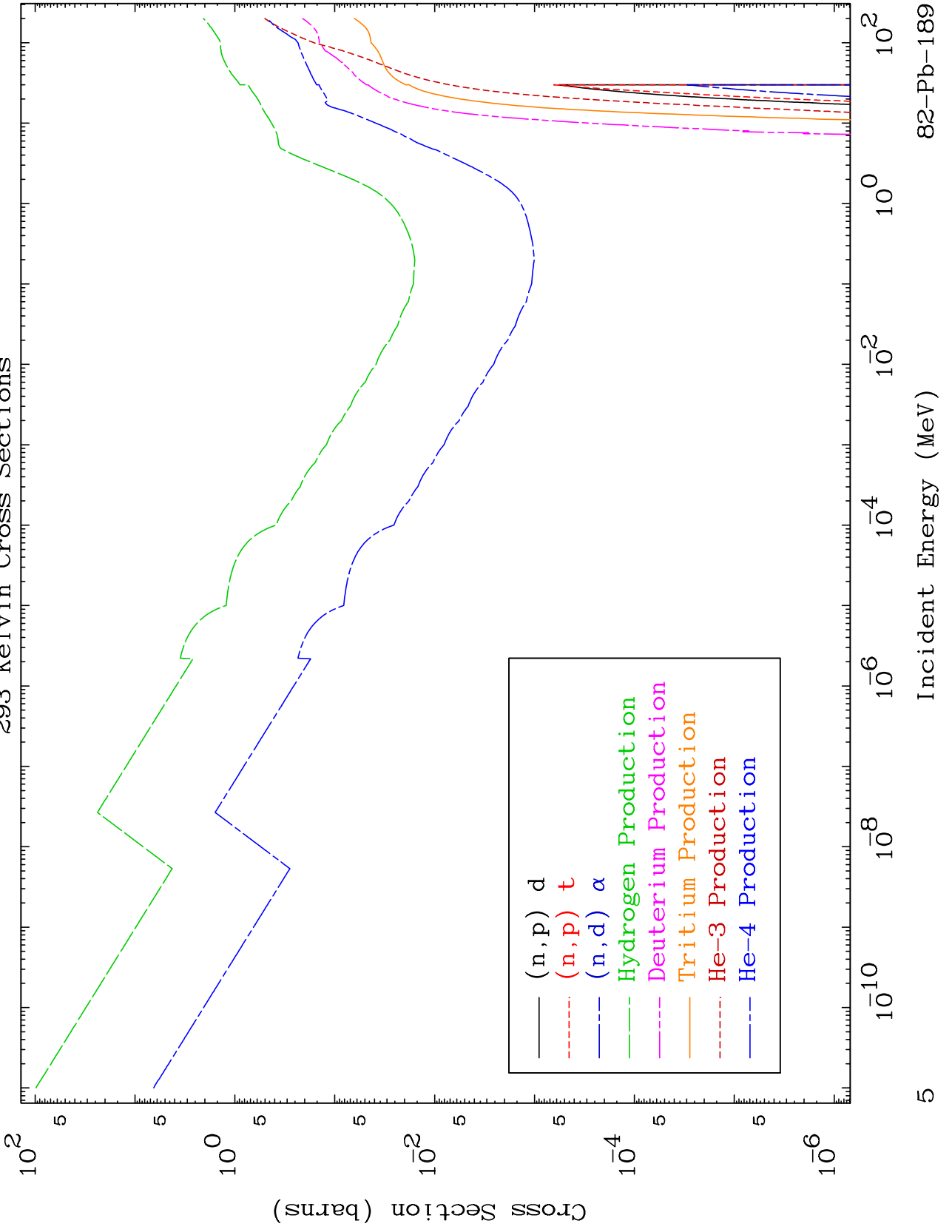




MAT 8180

Neutron Absorption
293 Kelvin Cross Sections

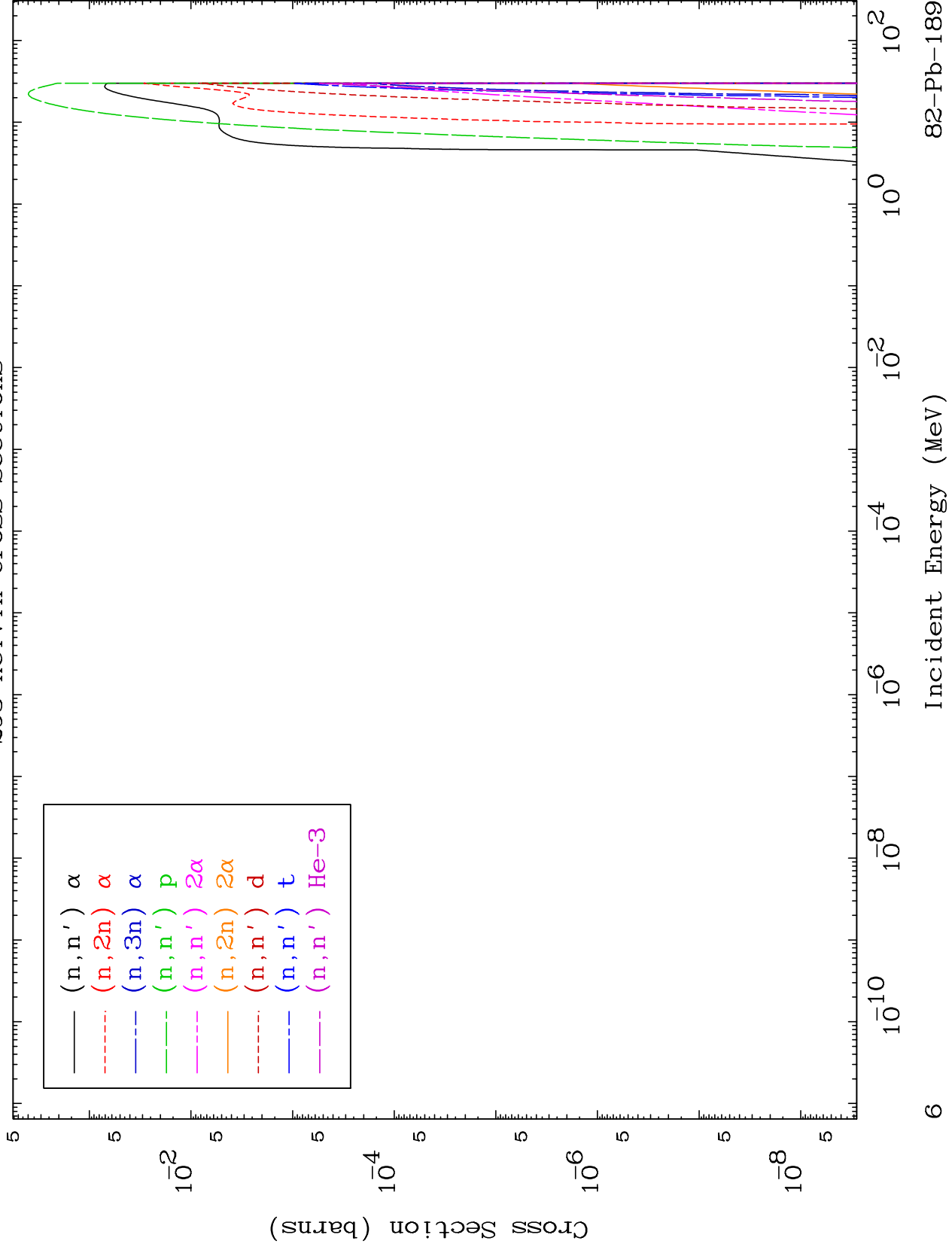
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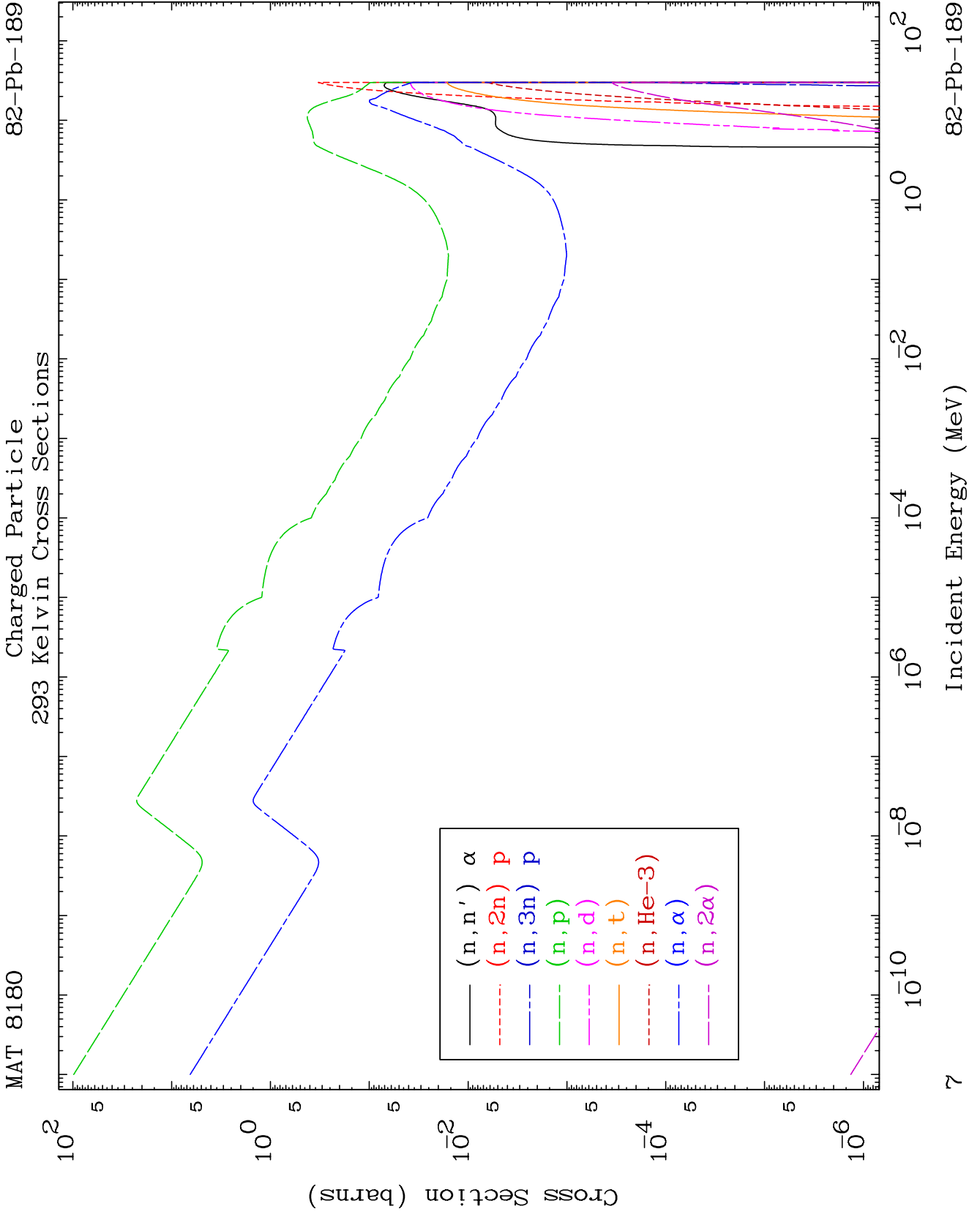


MAT 8180

Charged Particle
293 Kelvin Cross Sections

82-Pb-189

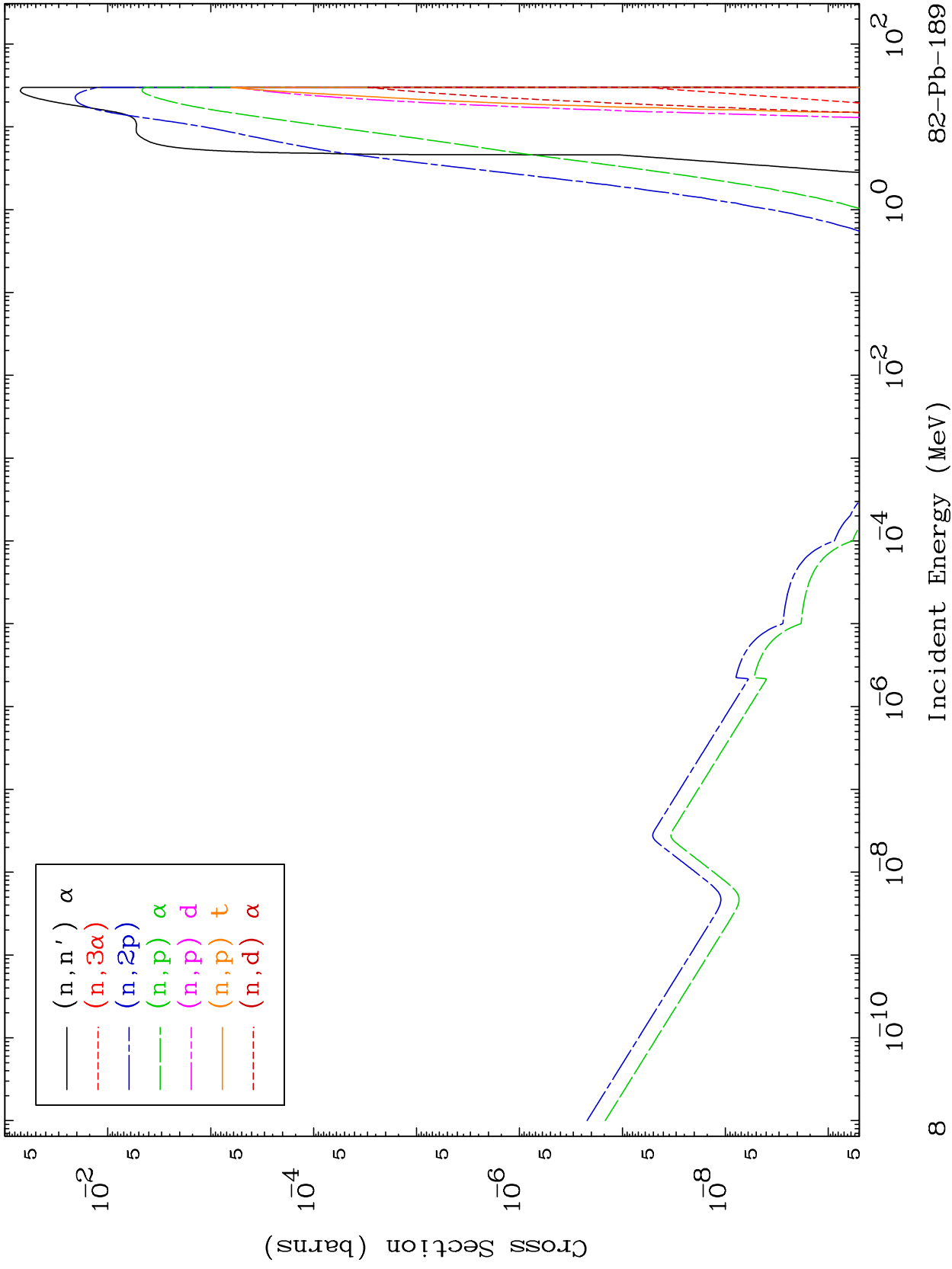


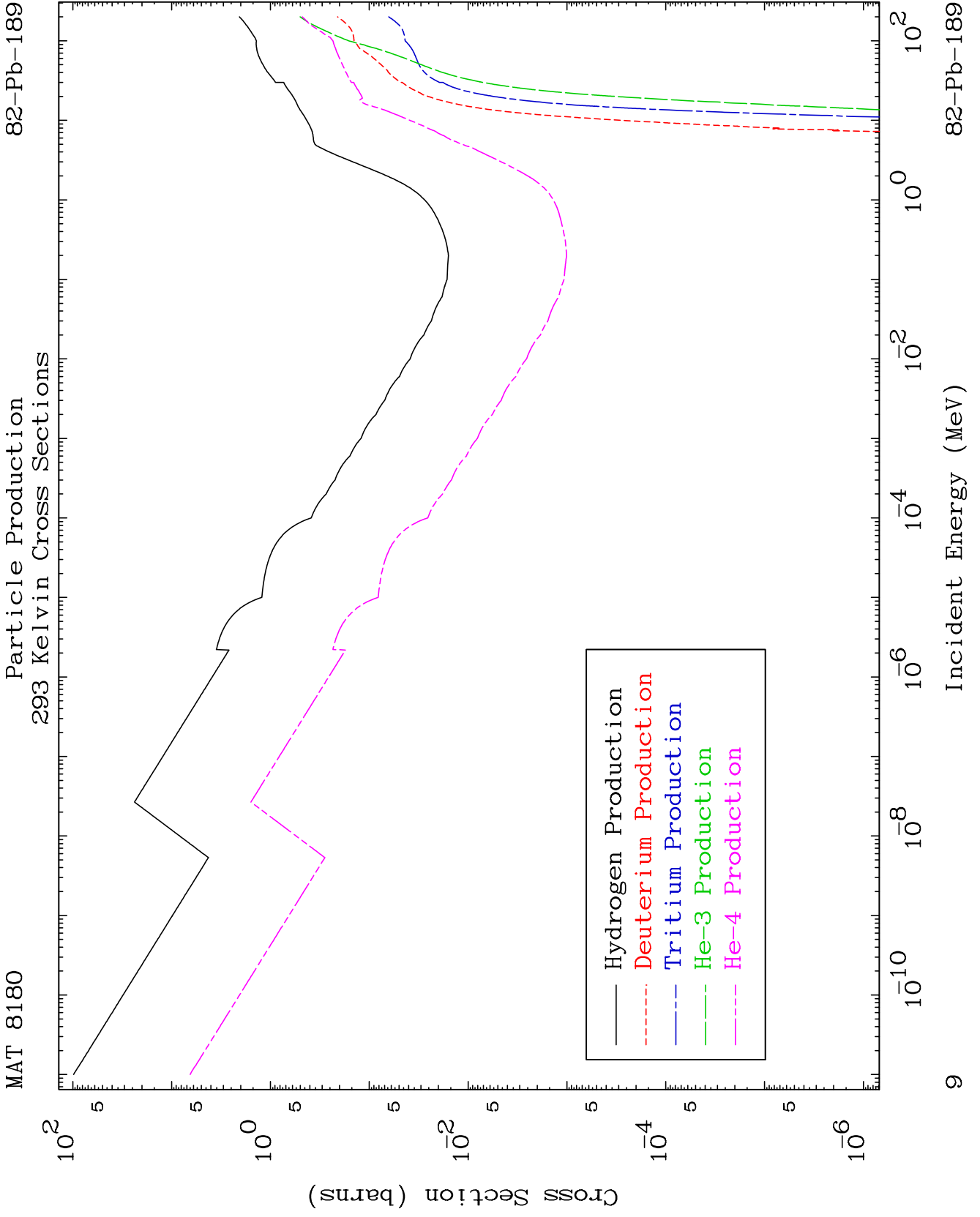


MAT 8180

Charged Particle
293 Kelvin Cross Sections

82-Pb-189

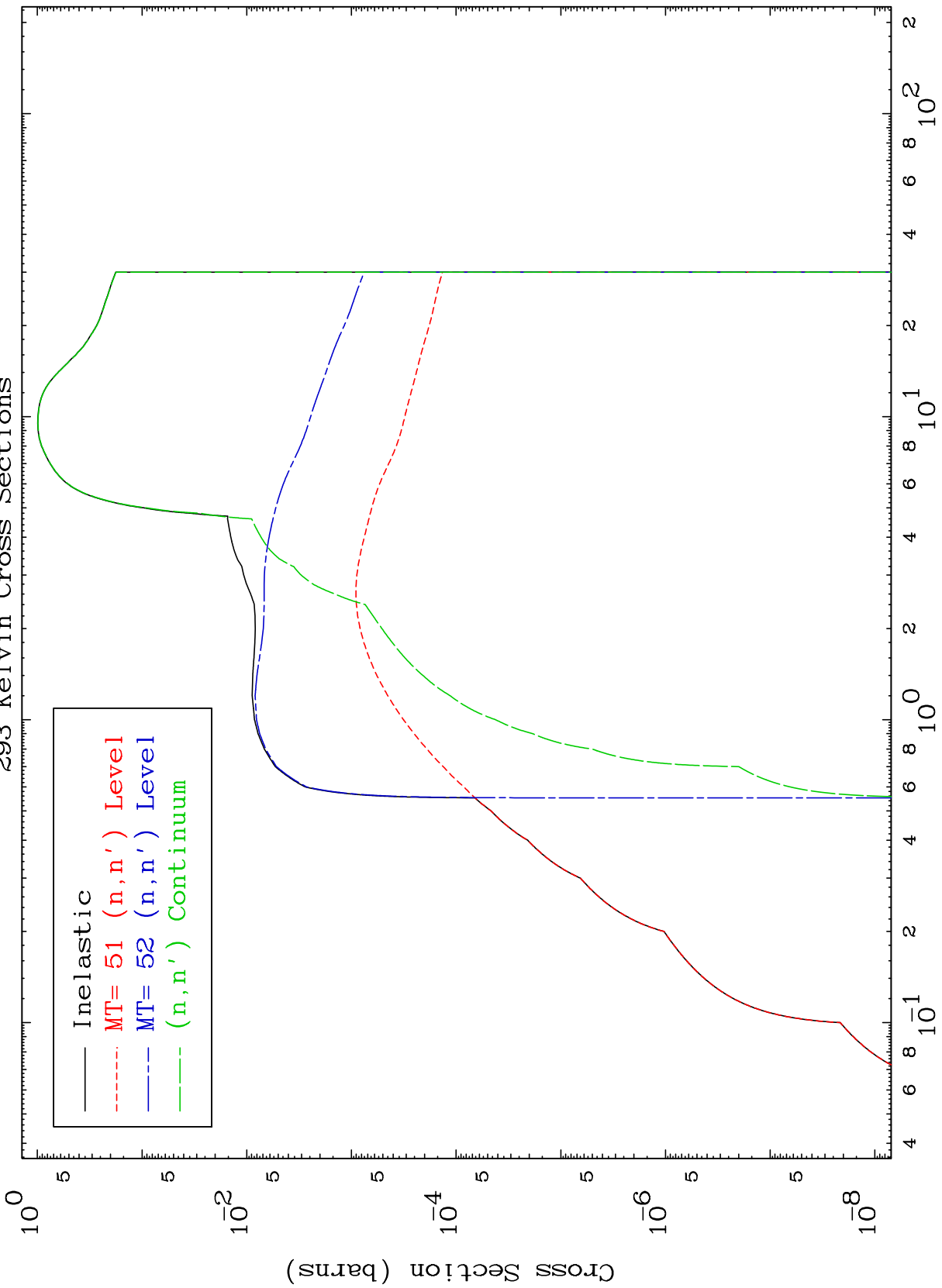




MAT 8180

82-Pb-189

293 Kelvin Cross Sections
(n,n') Levels



Inelastic
MT= 51 (n,n') Level
MT= 52 (n,n') Level
(n,n') Continuum

10

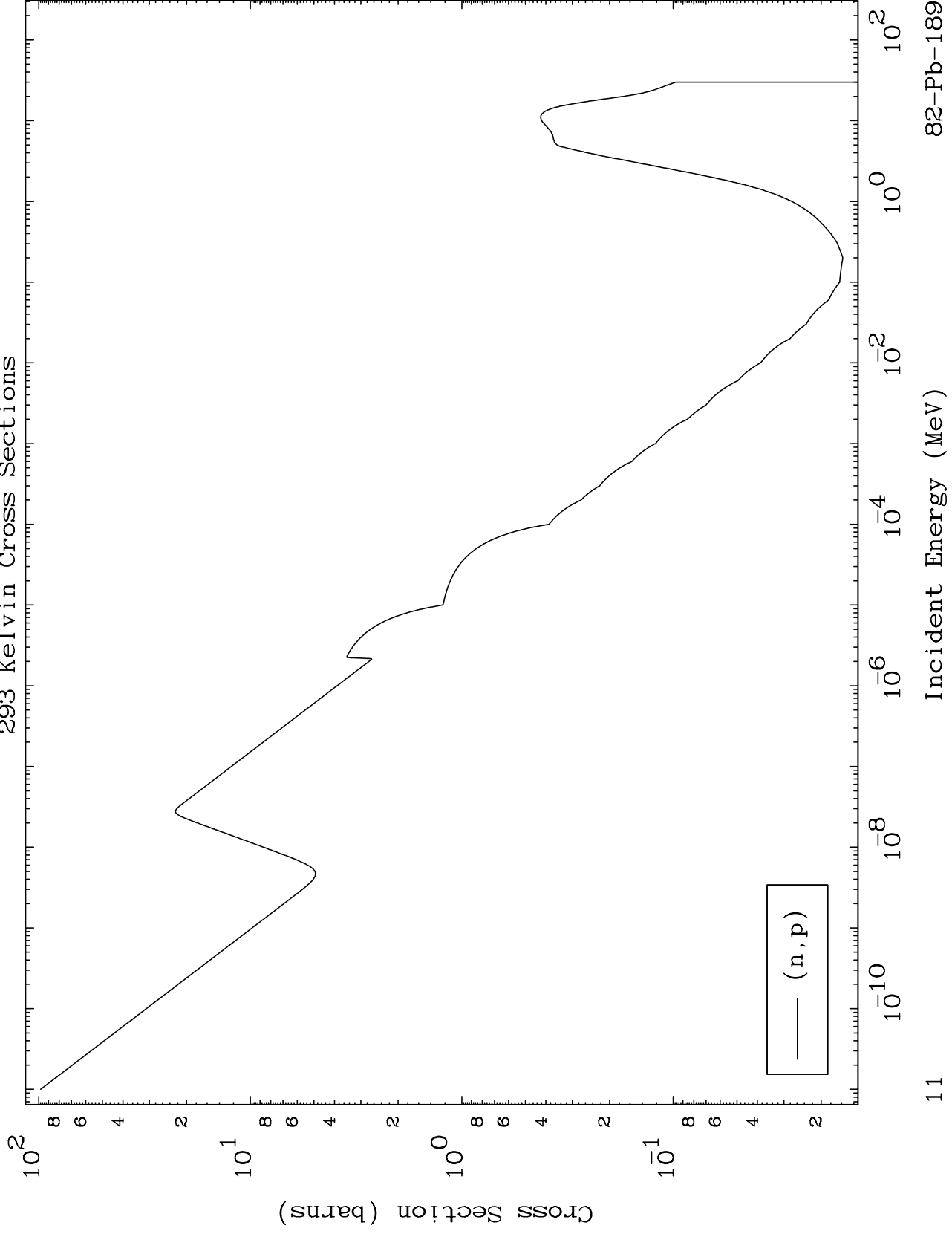
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,p) Levels
293 Kelvin Cross Sections

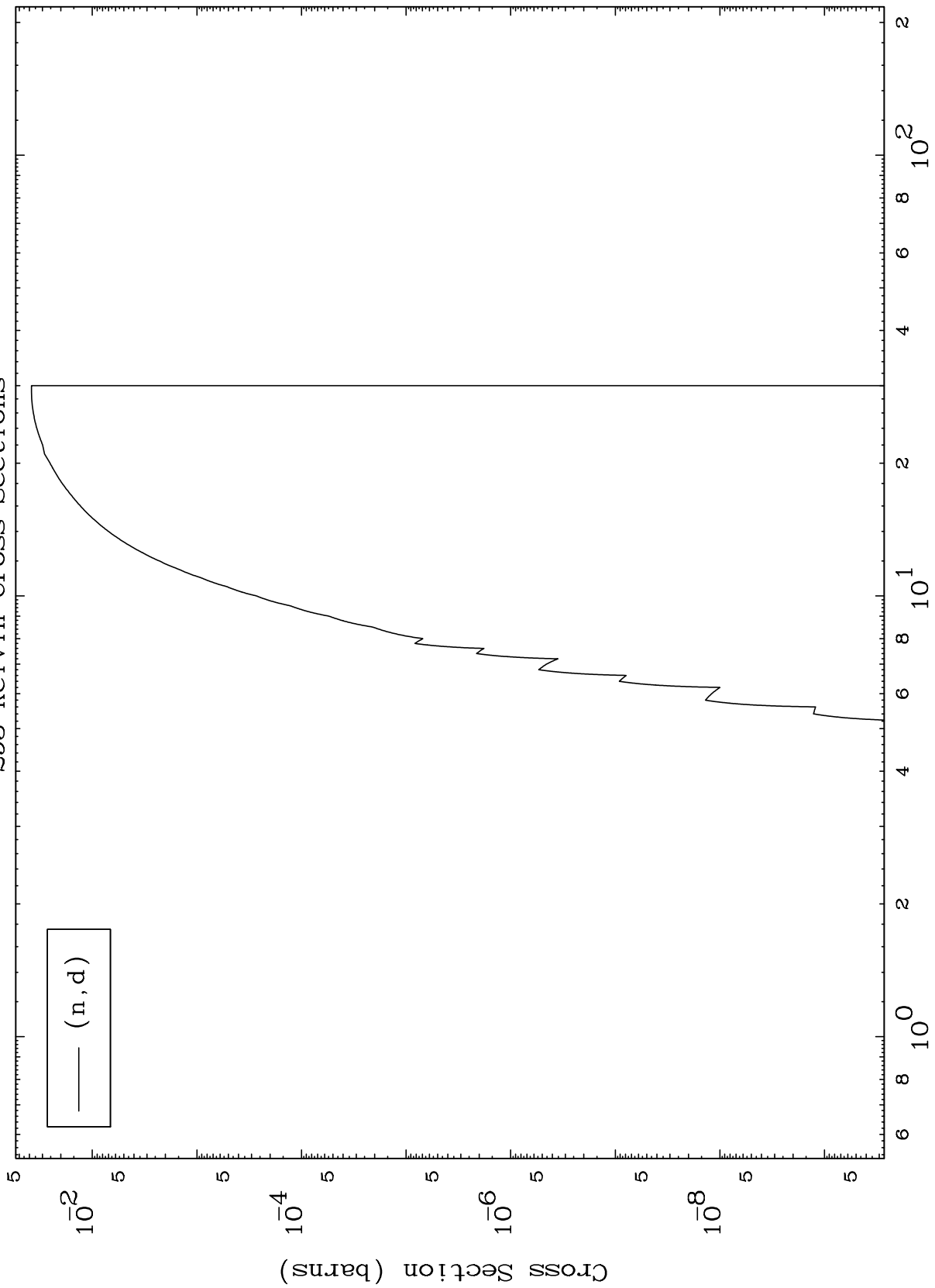
82-Pb-189



MAT 8180

(n,d) Levels
293 Kelvin Cross Sections

82-Pb-189



12

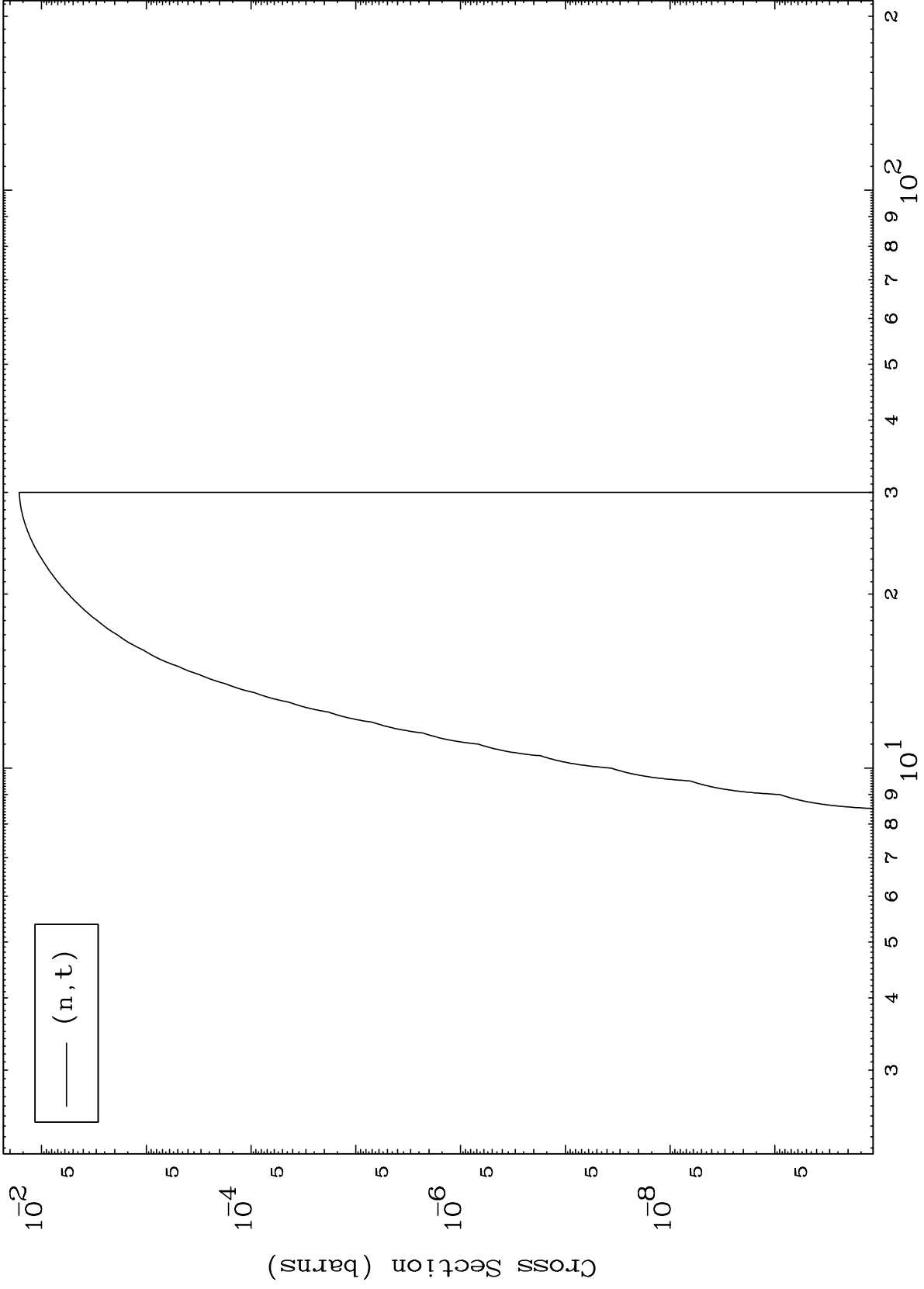
Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,t) Levels
293 Kelvin Cross Sections

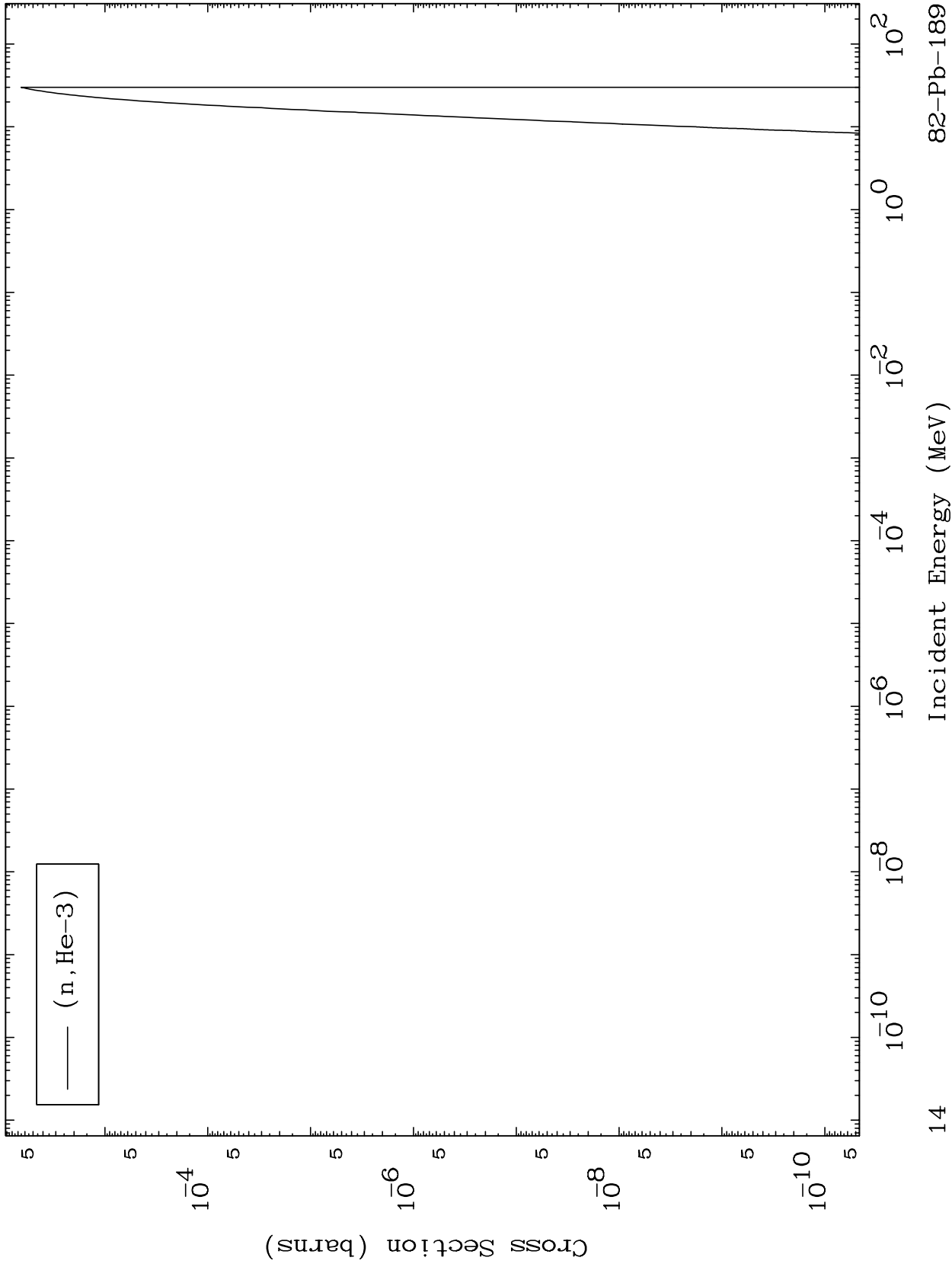
82-Pb-189



MAT 8180

(n,He3) Levels
293 Kelvin Cross Sections

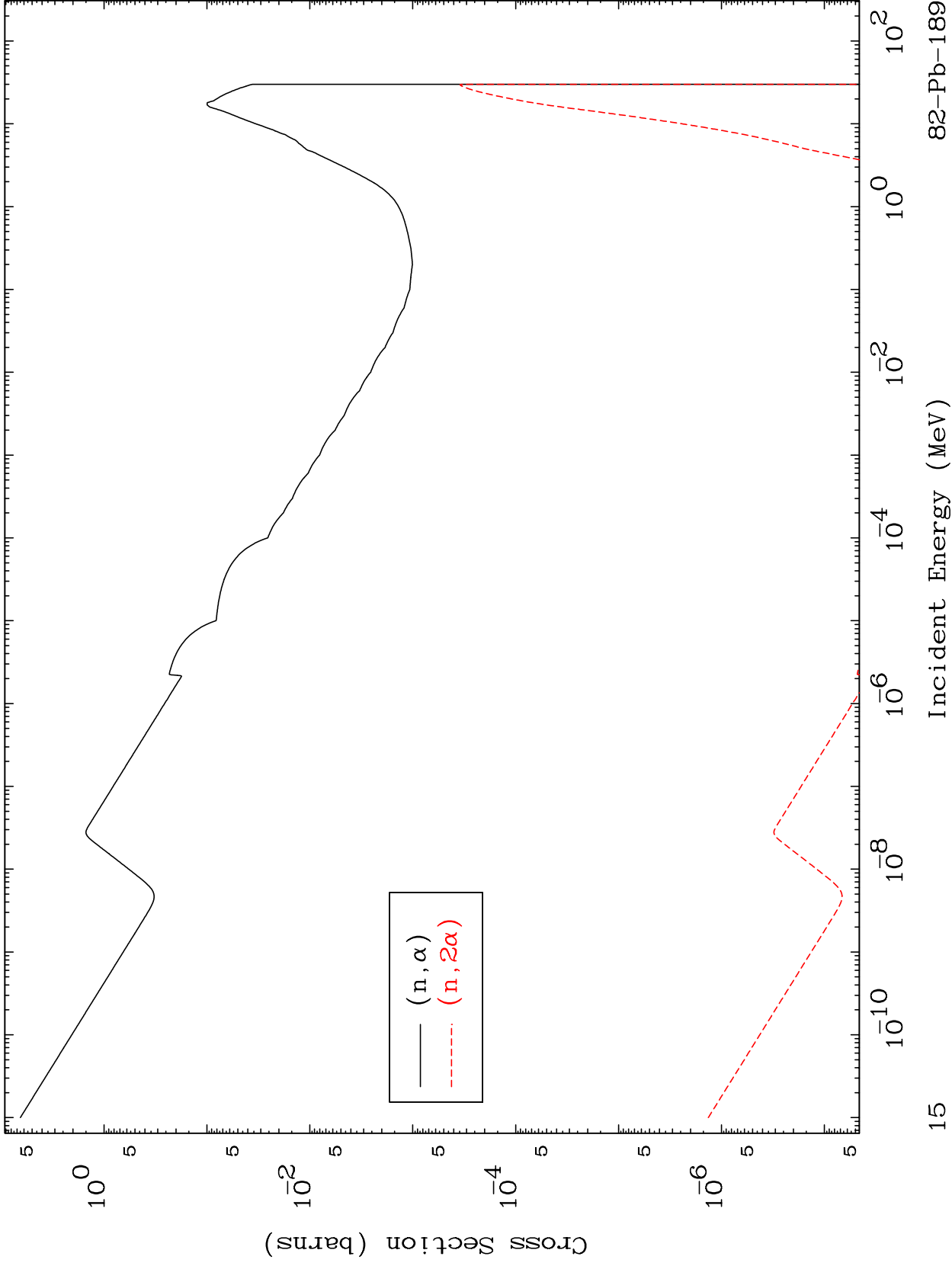
82-Pb-189



MAT 8180

(n, α) Levels
293 Kelvin Cross Sections

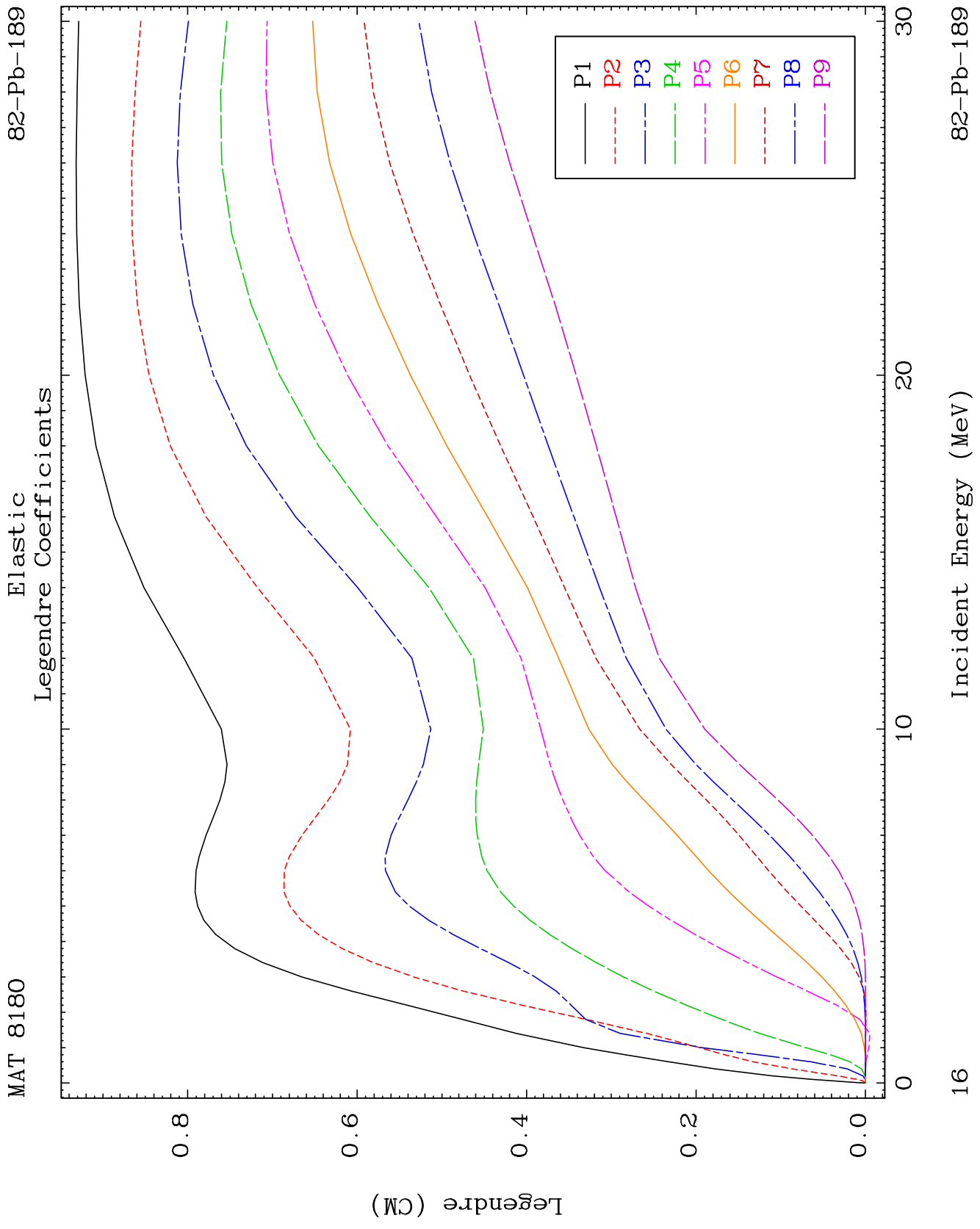
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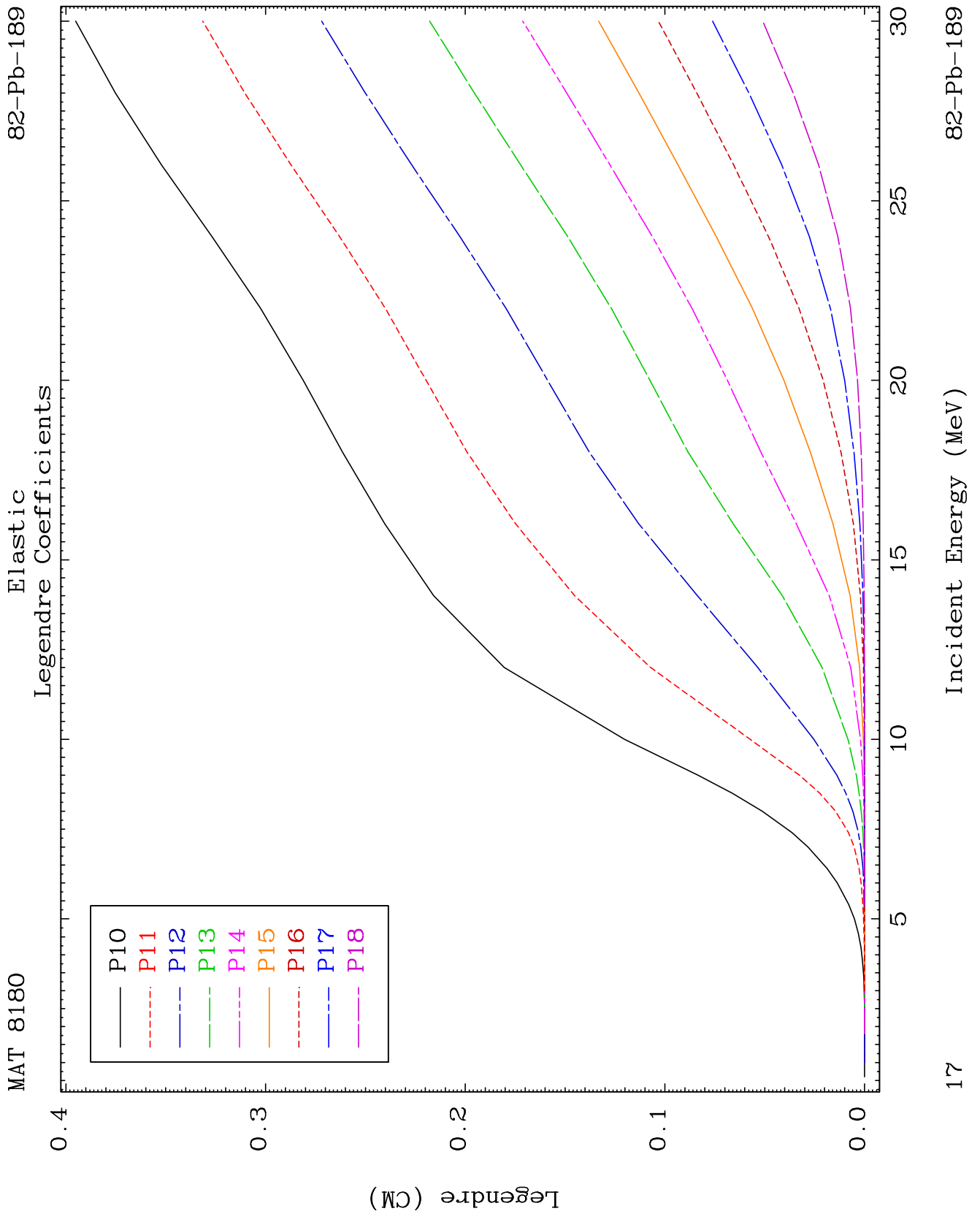


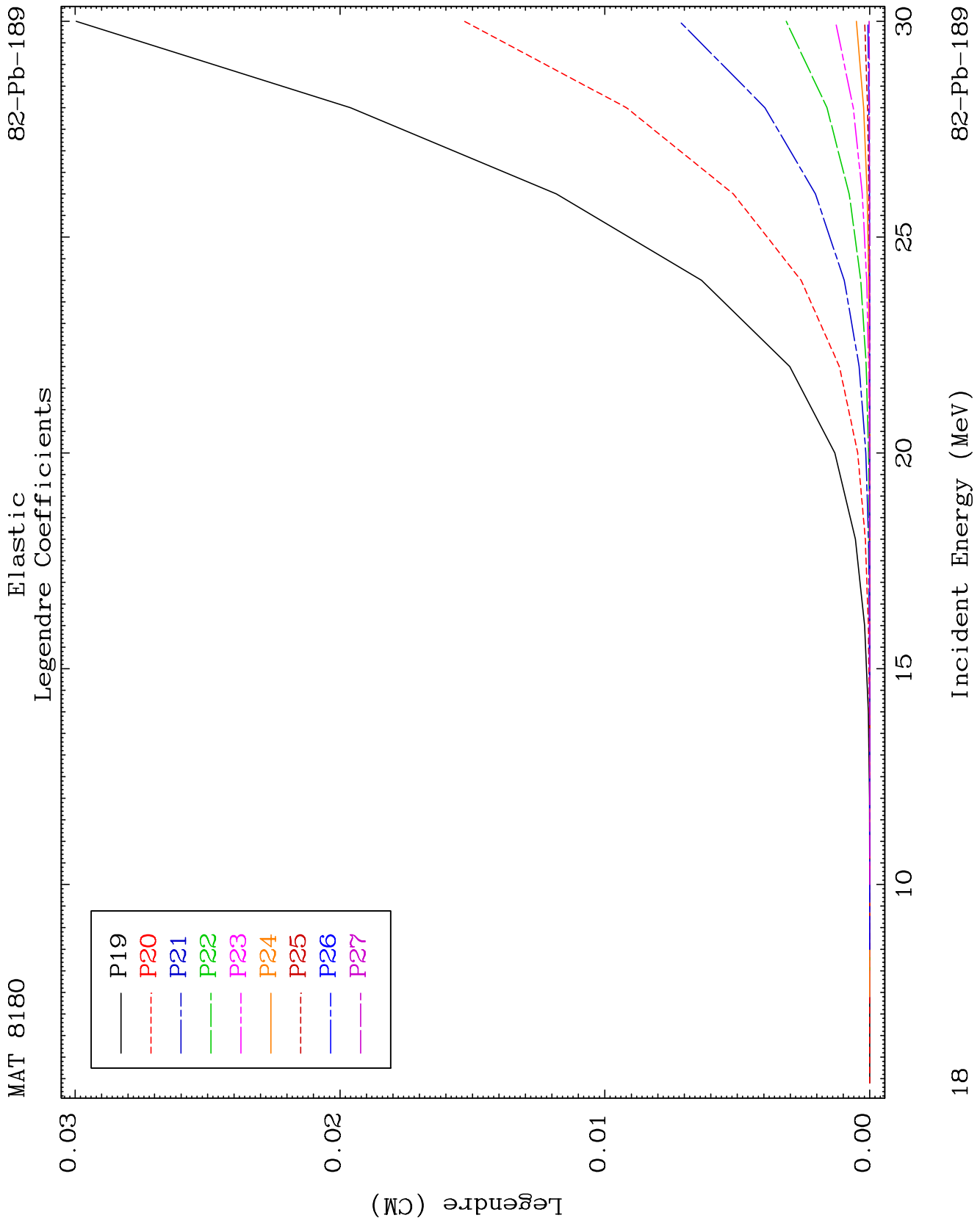
15

Incident Energy (MeV)

82-Pb-189



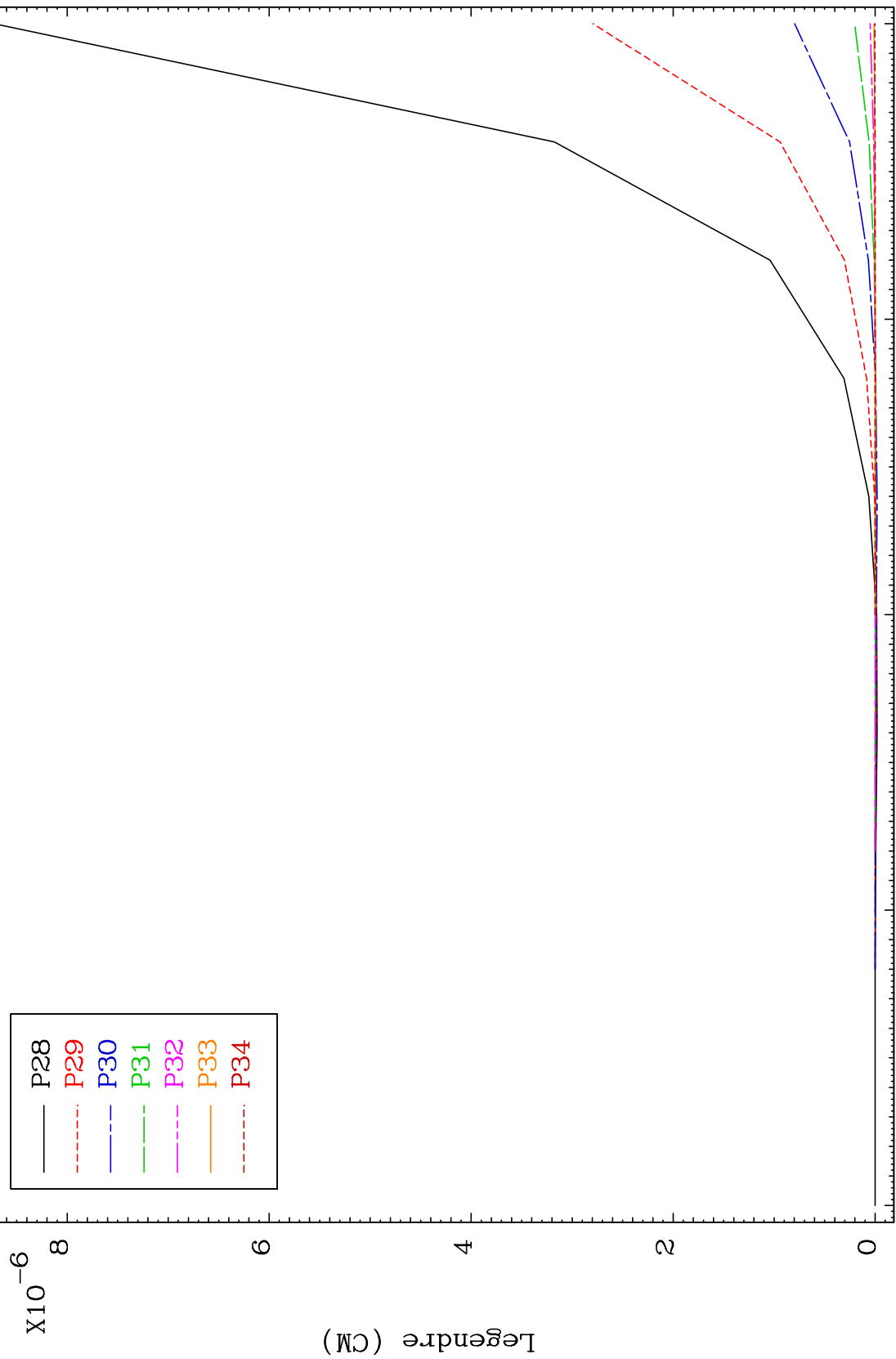
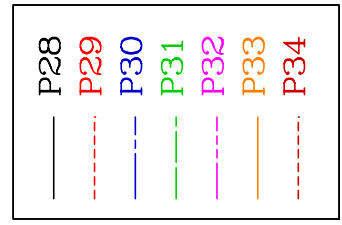




MAT 8180

Elastic Legendre Coefficients

82-Pb-189



19

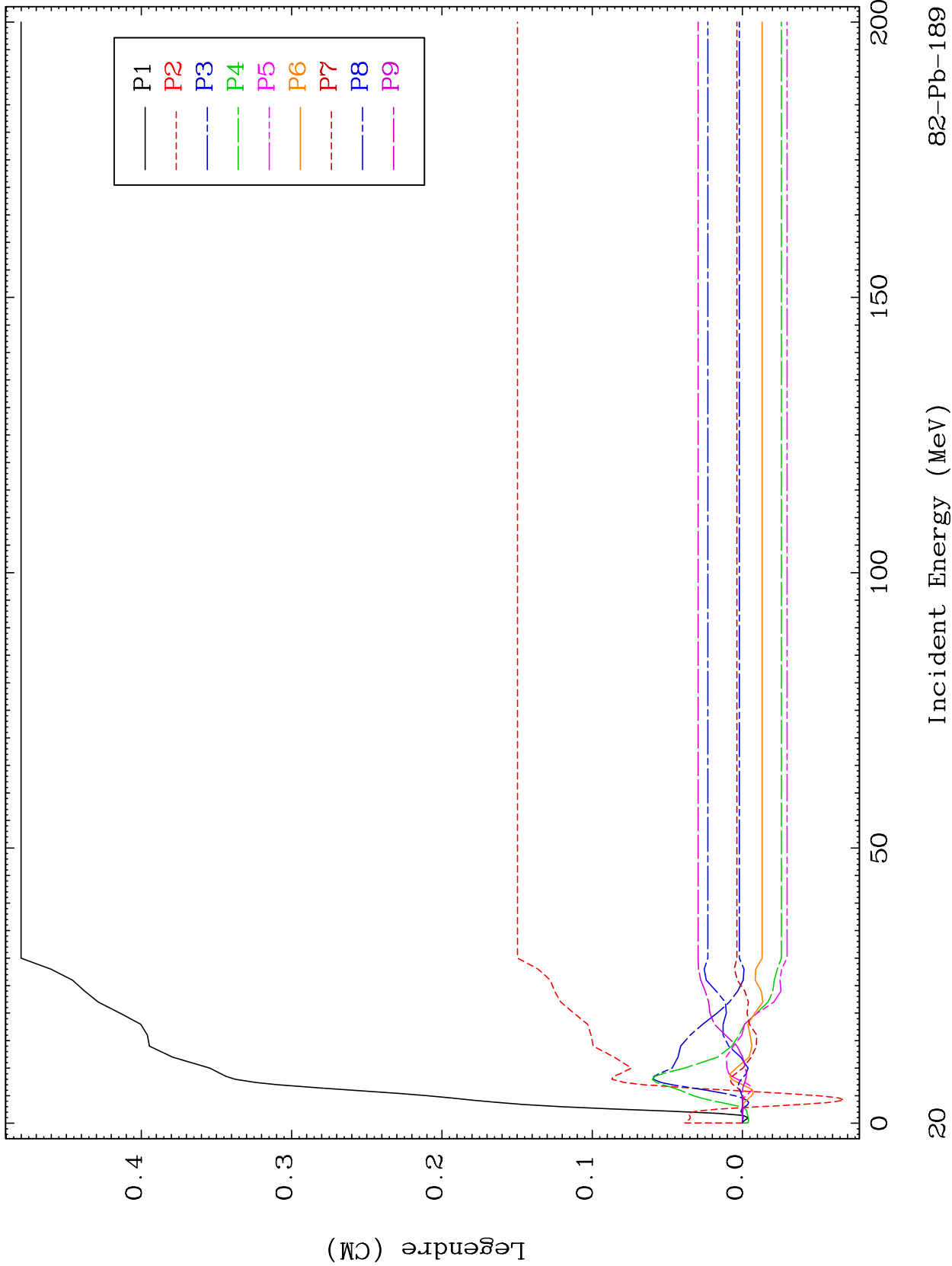
Incident Energy (MeV)

82-Pb-189

MAT 8180

MT= 51 (n,n') Level
Legendre Coefficients

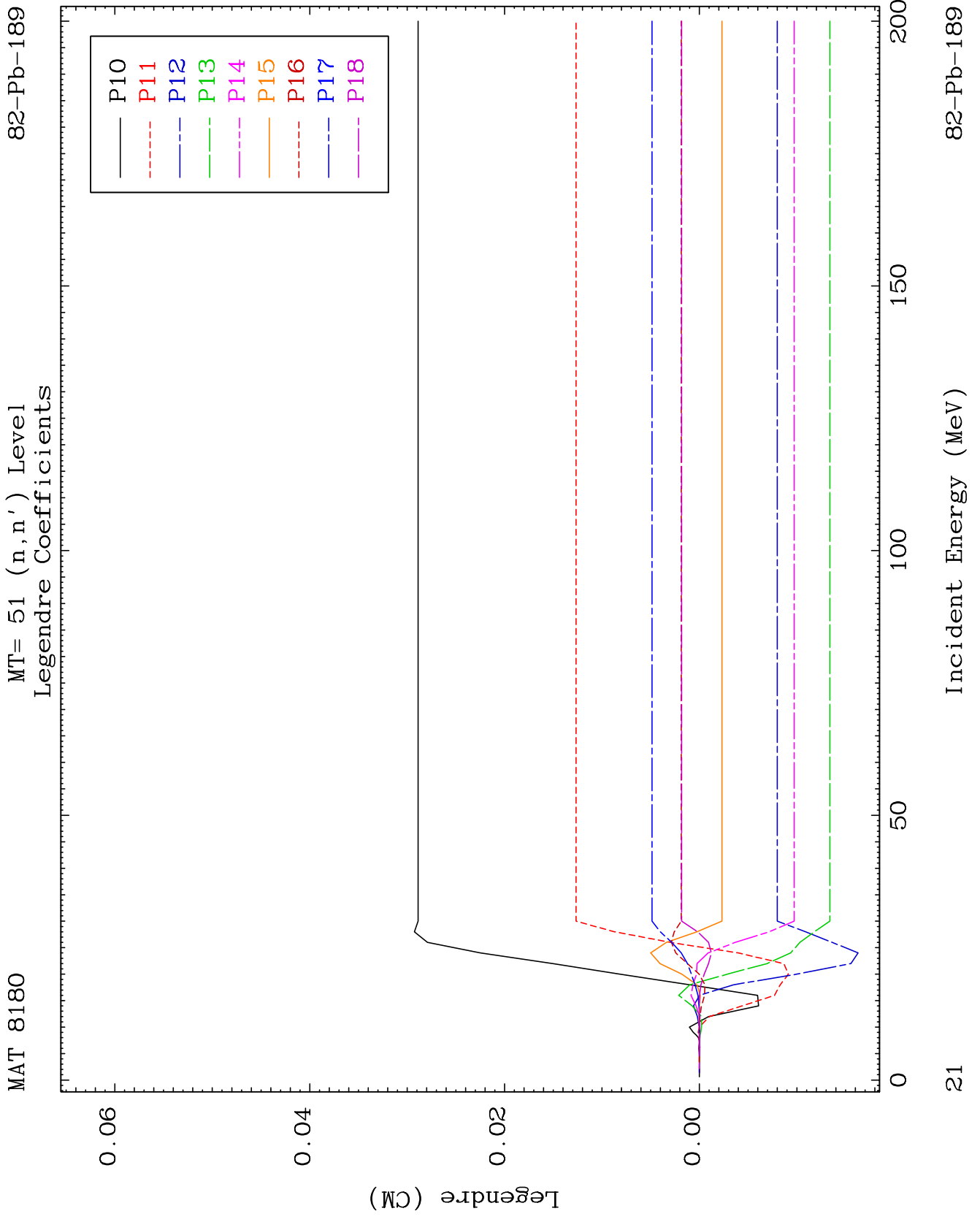
82-Pb-189

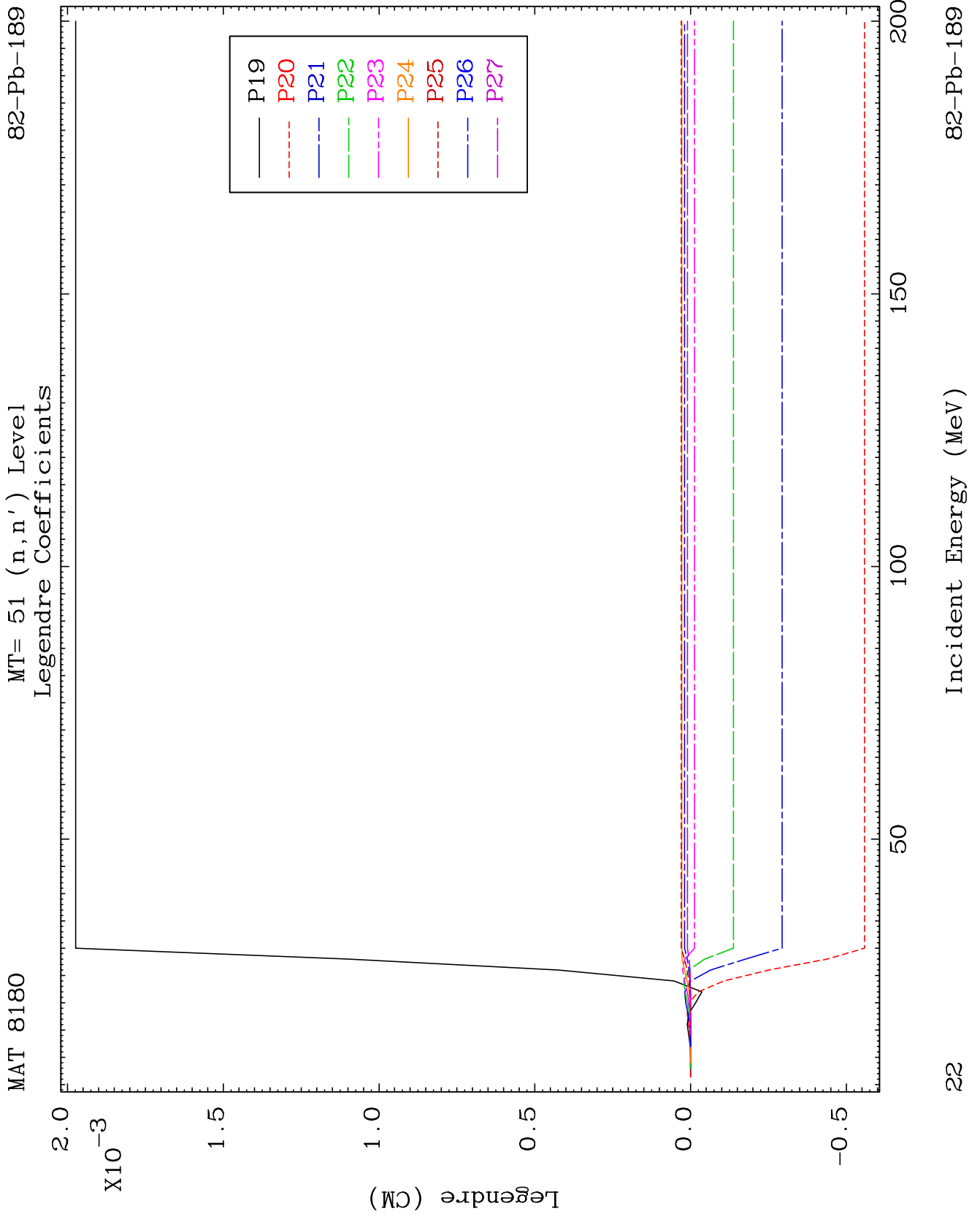


82-Pb-189

Incident Energy (MeV)

20

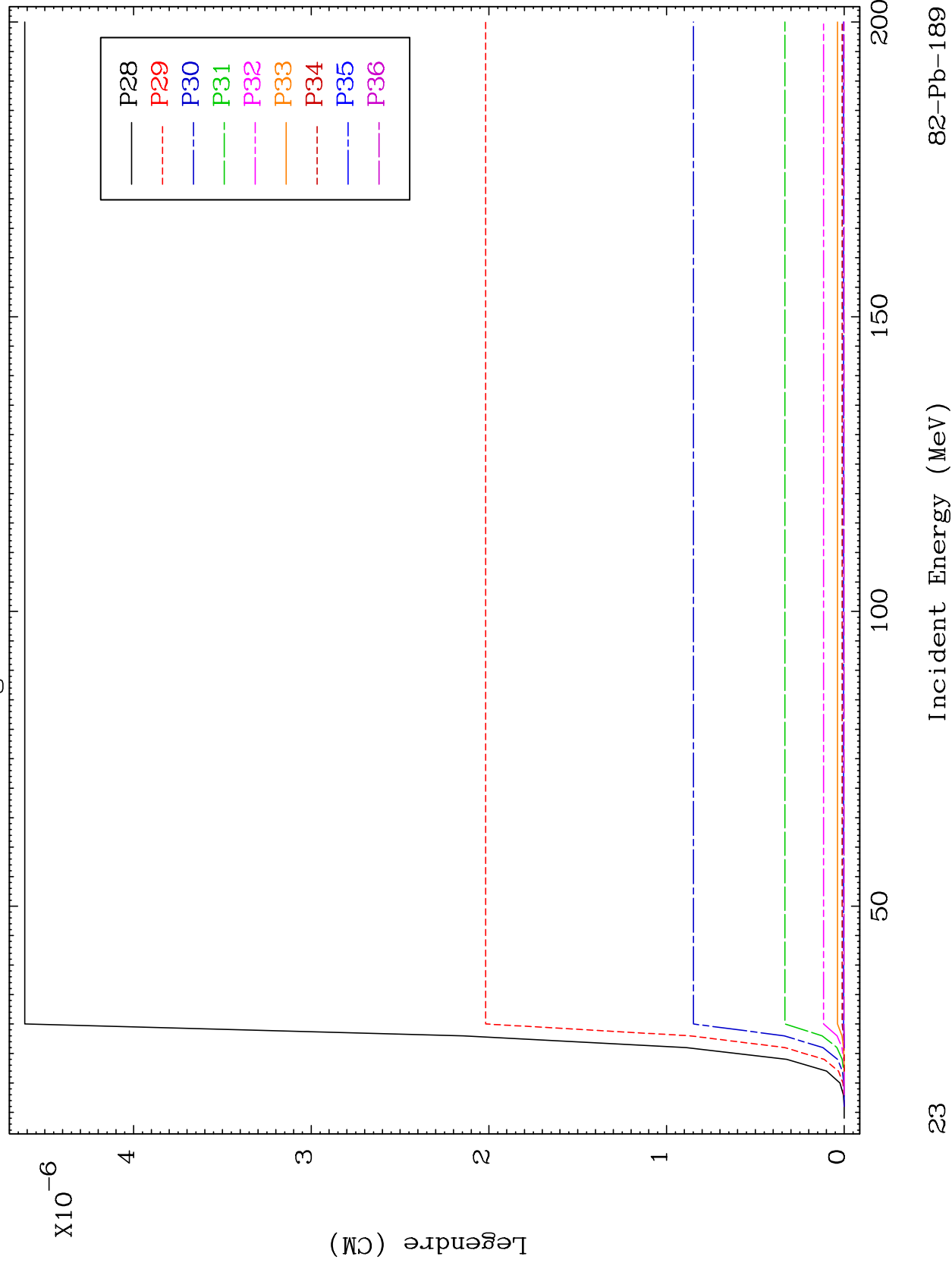




MAT 8180

MT= 51 (n,n') Level
Legendre Coefficients

82-Pb-189

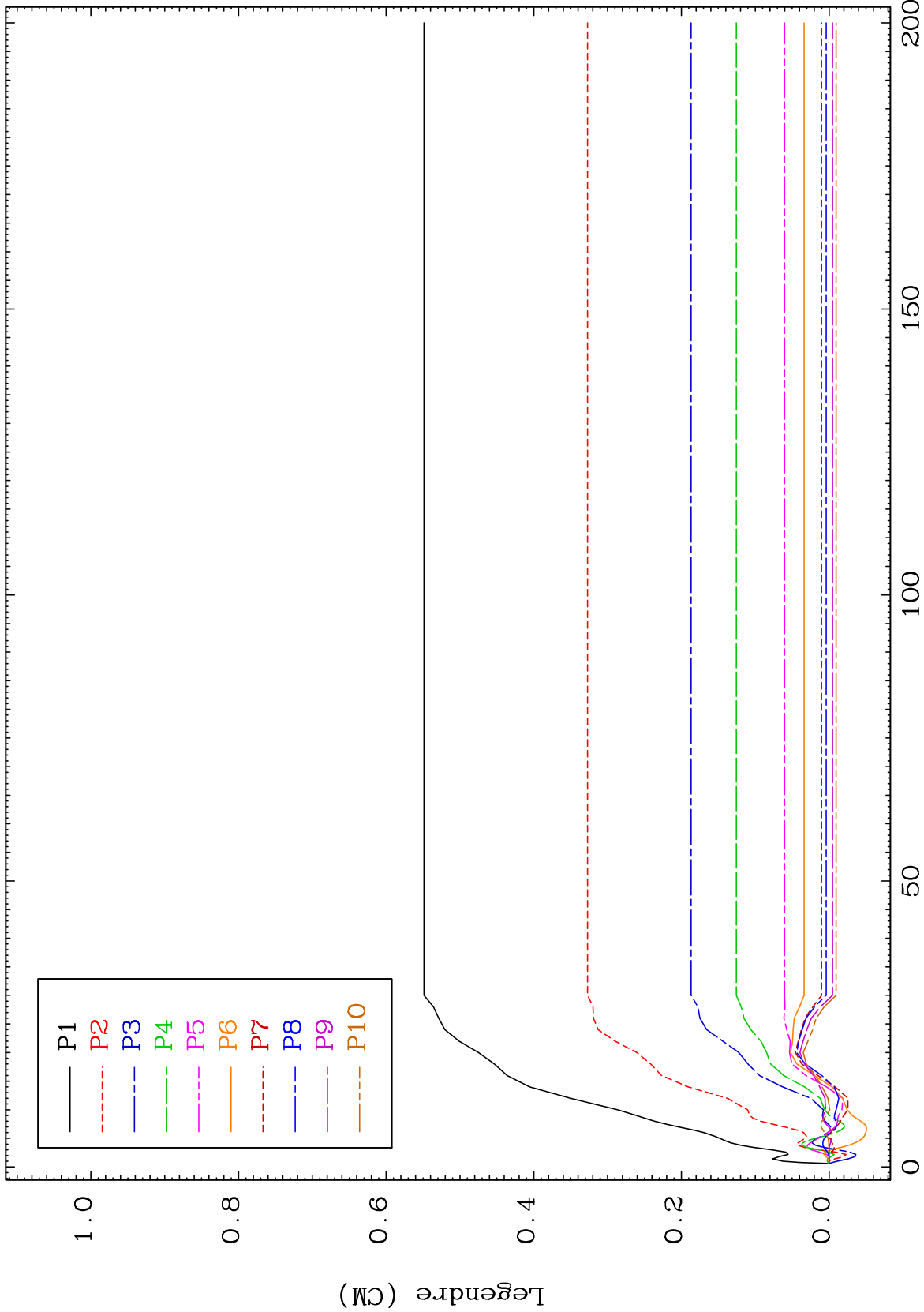


23

MAT 8180

MT= 52 (n,n') Level
Legendre Coefficients

82-Pb-189



24

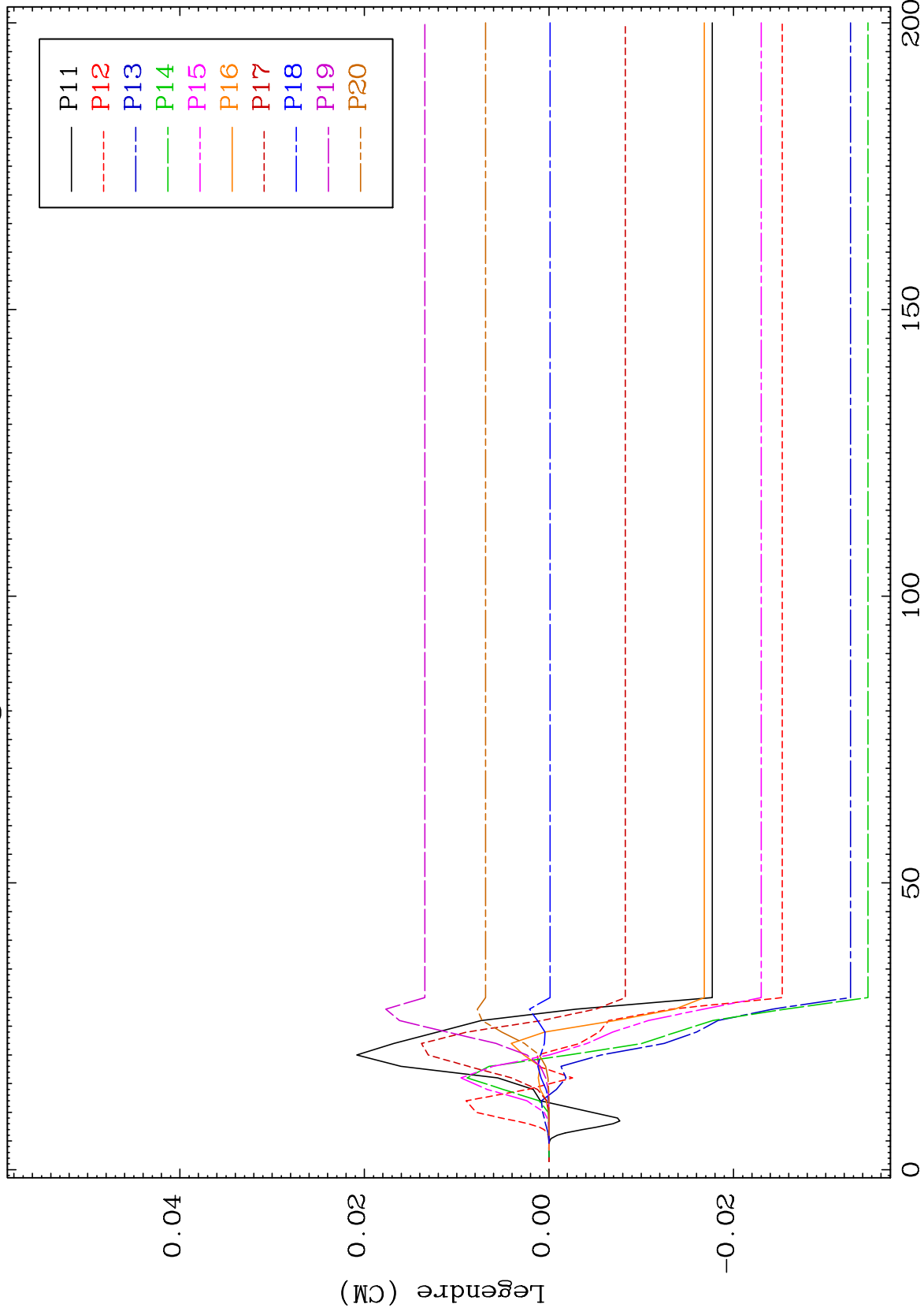
Incident Energy (MeV)

82-Pb-189

MAT 8180

MT= 52 (n,n') Level
Legendre Coefficients

82-Pb-189



82-Pb-189

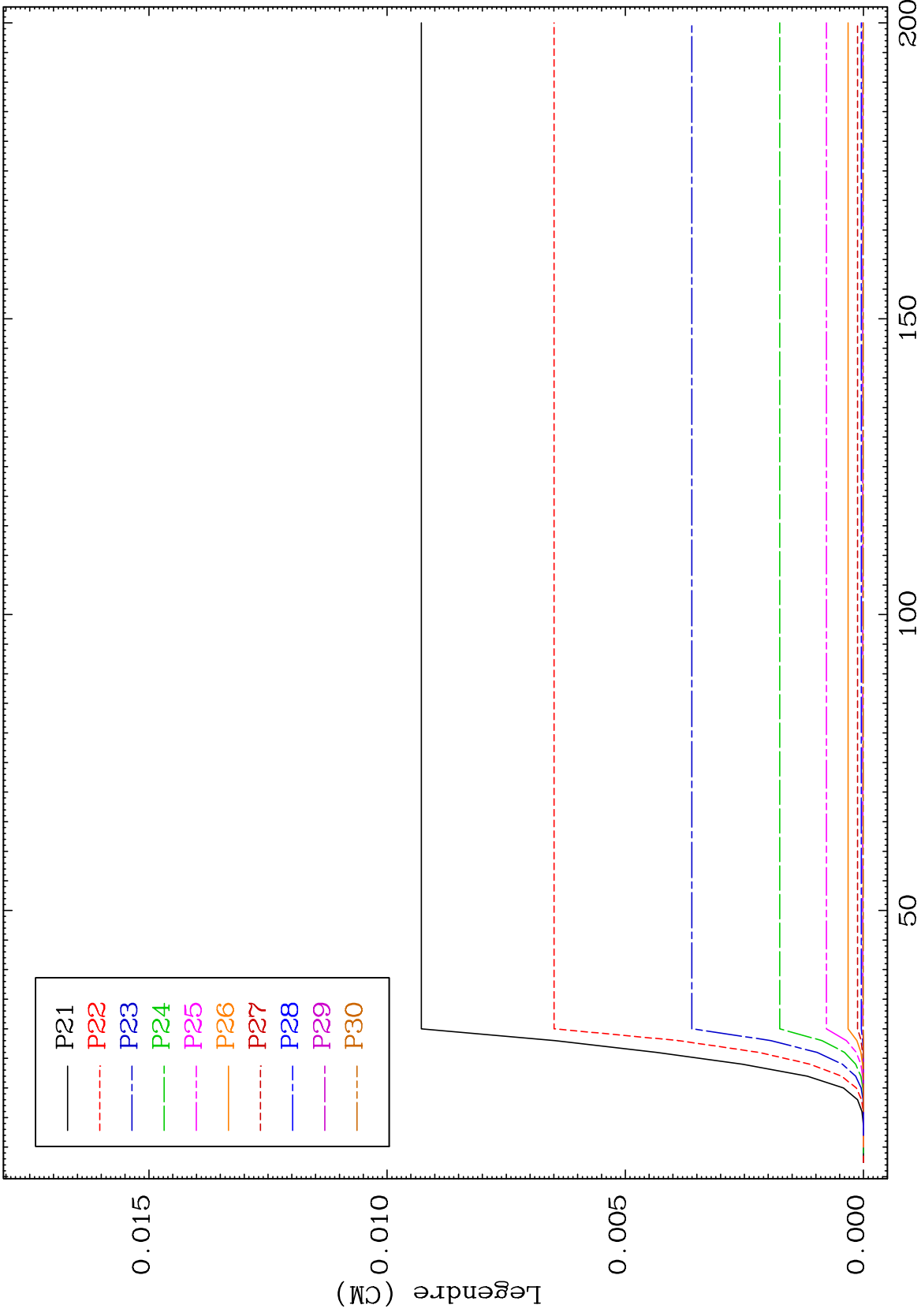
Incident Energy (MeV)

25

MAT 8180

MT= 52 (n,n') Level
Legendre Coefficients

82-Pb-189



26

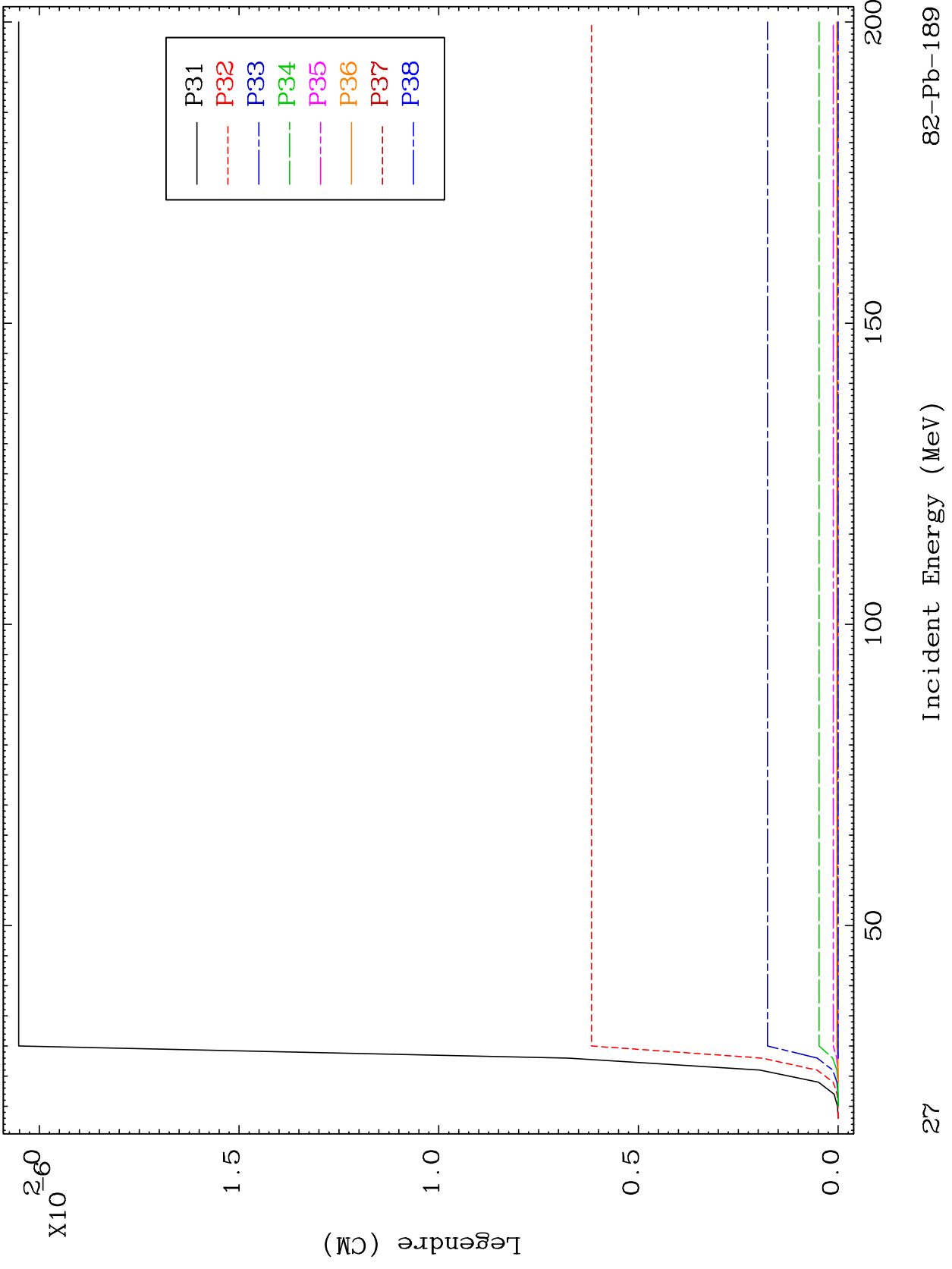
Incident Energy (MeV)

82-Pb-189

MAT 8180

MT= 52 (n,n') Level
Legendre Coefficients

82-Pb-189



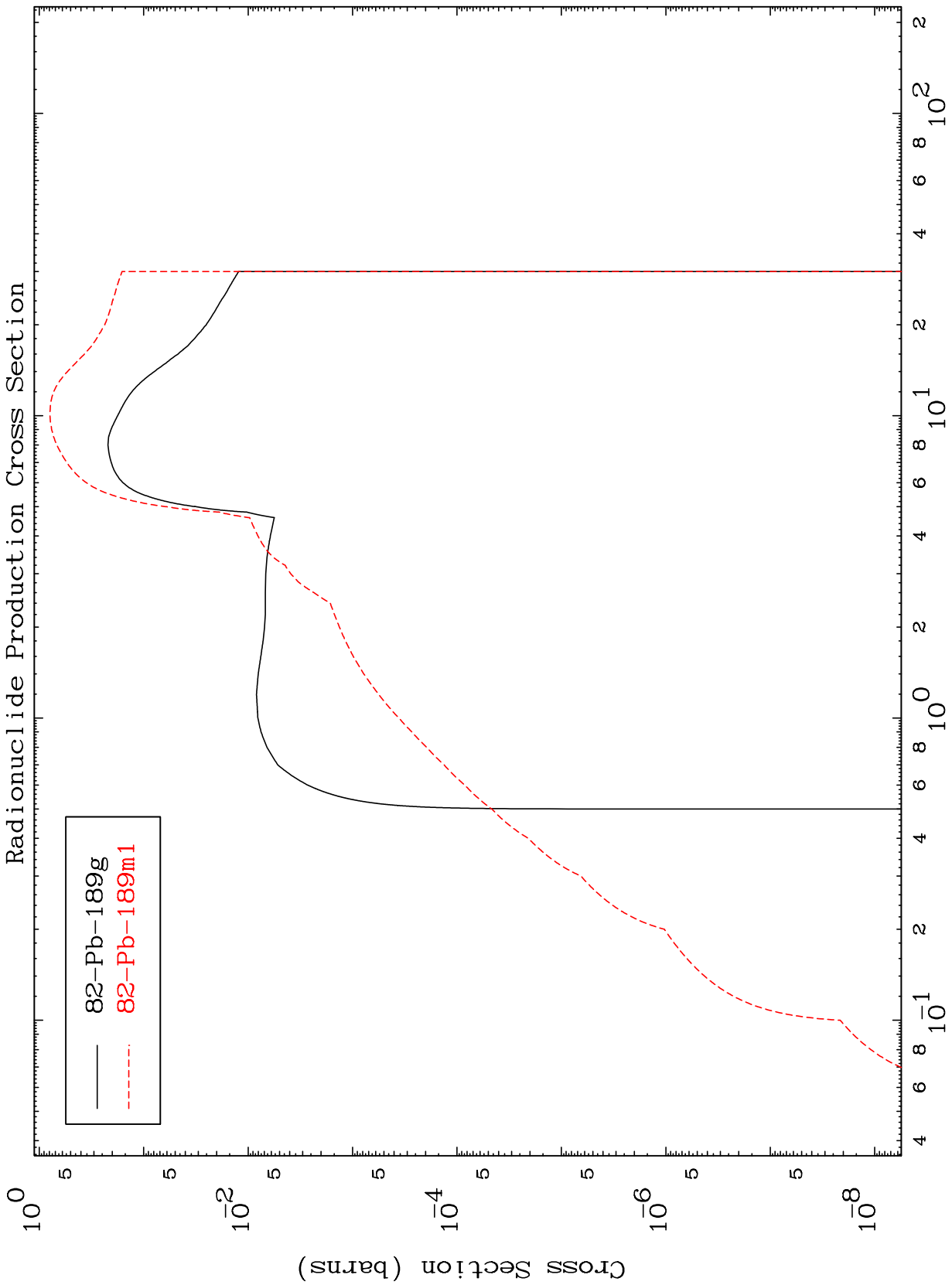
27

82-Pb-189

MAT 8180

82-Pb-189

Inelastic
Radionuclide Production Cross Section



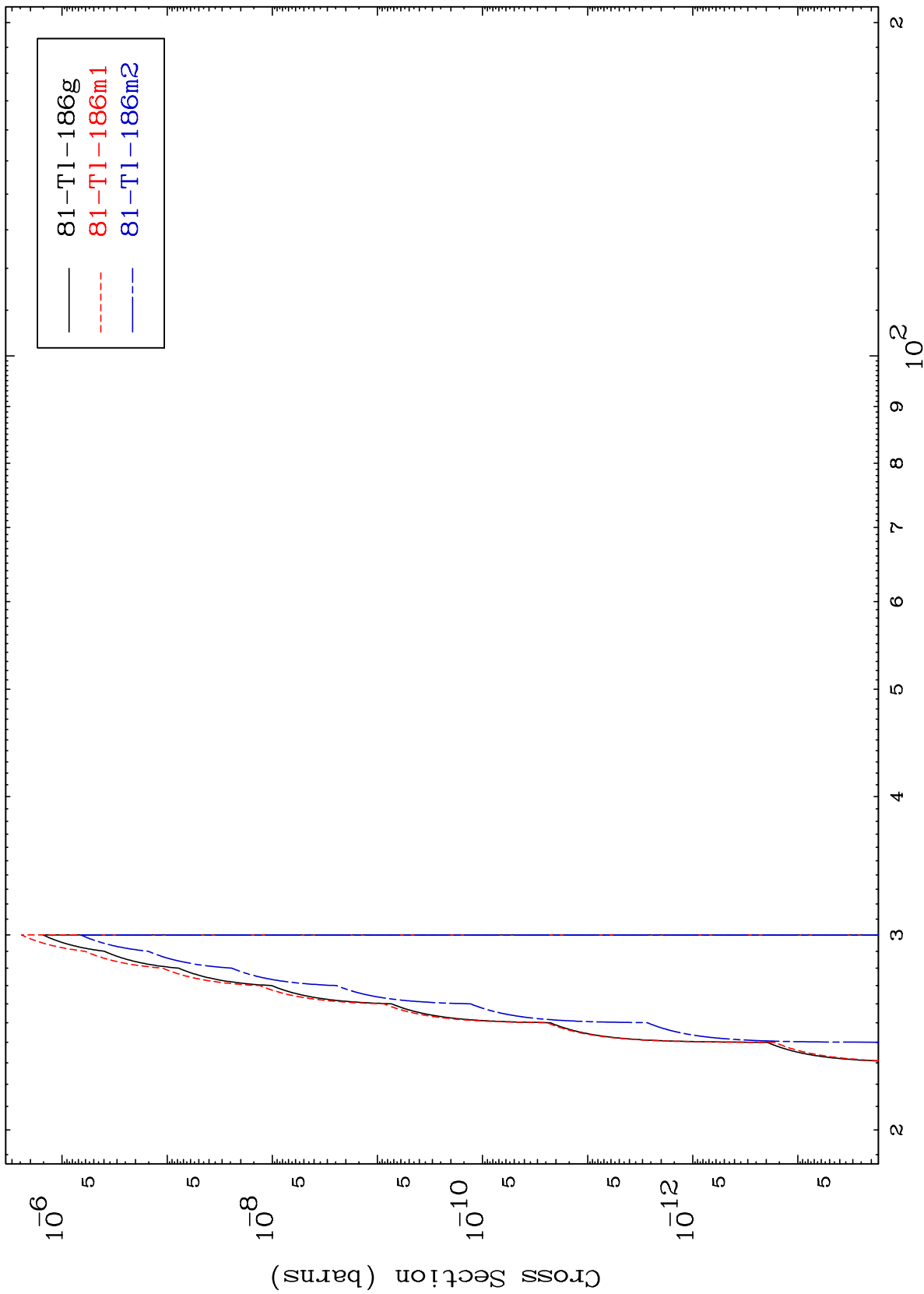
82-Pb-189g
82-Pb-189m1

28

Incident Energy (MeV)

82-Pb-189

Radionuclide Production Cross Section

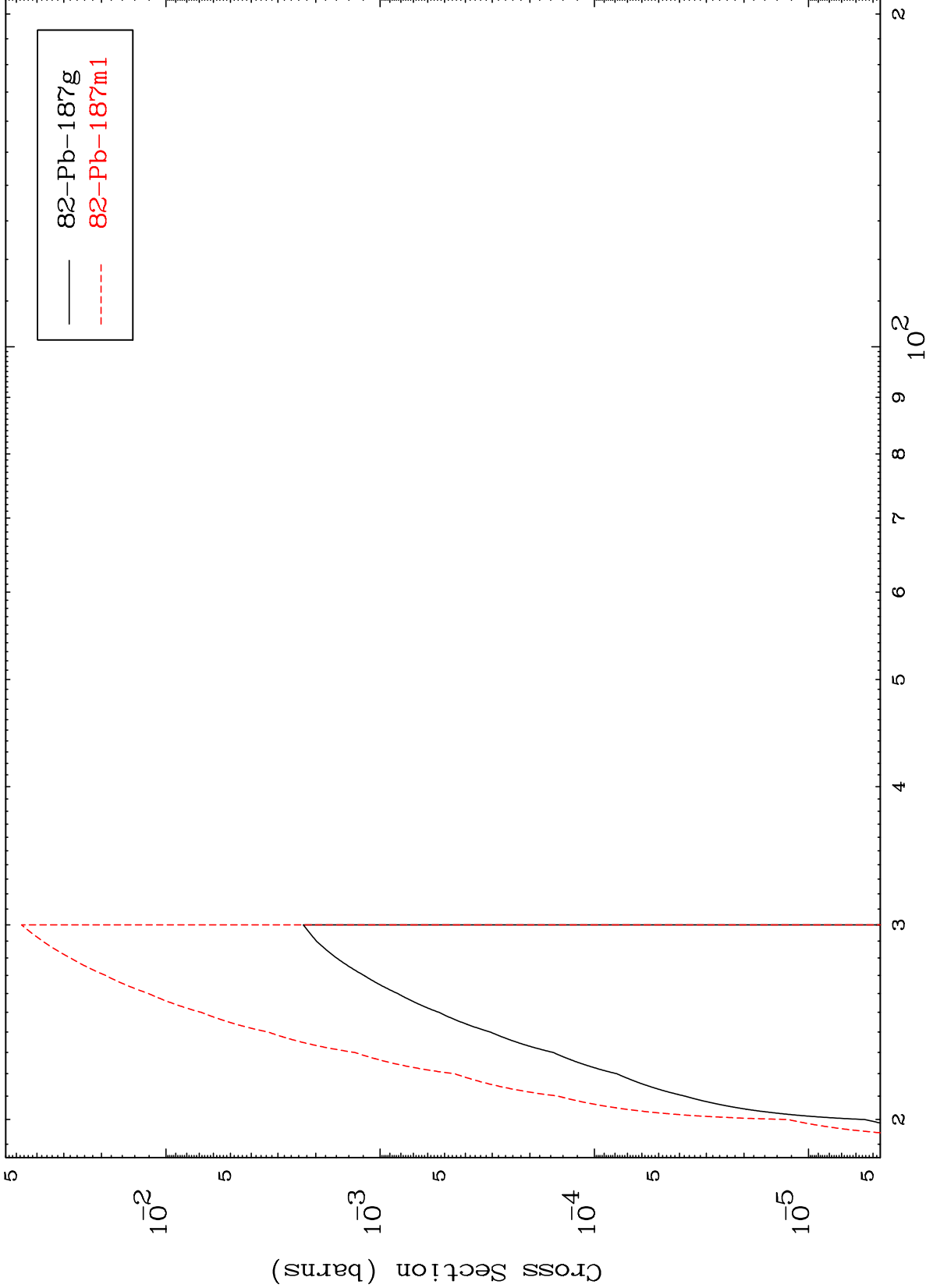


MAT 8180

(n,3n)

82-Pb-189

Radionuclide Production Cross Section



30

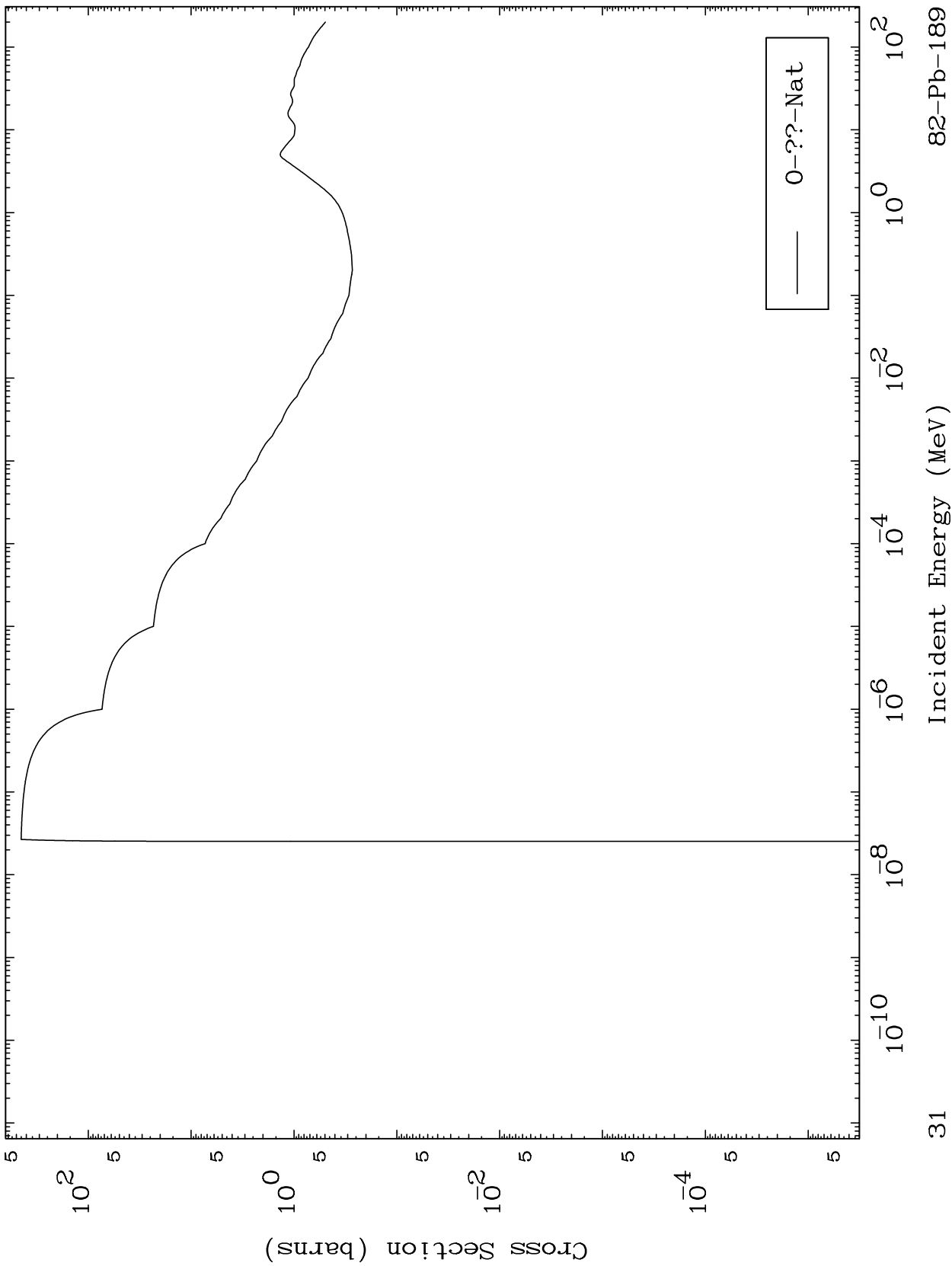
Incident Energy (MeV)

82-Pb-189

MAT 8180

82-Pb-189

Fission
Radionuclide Production Cross Section

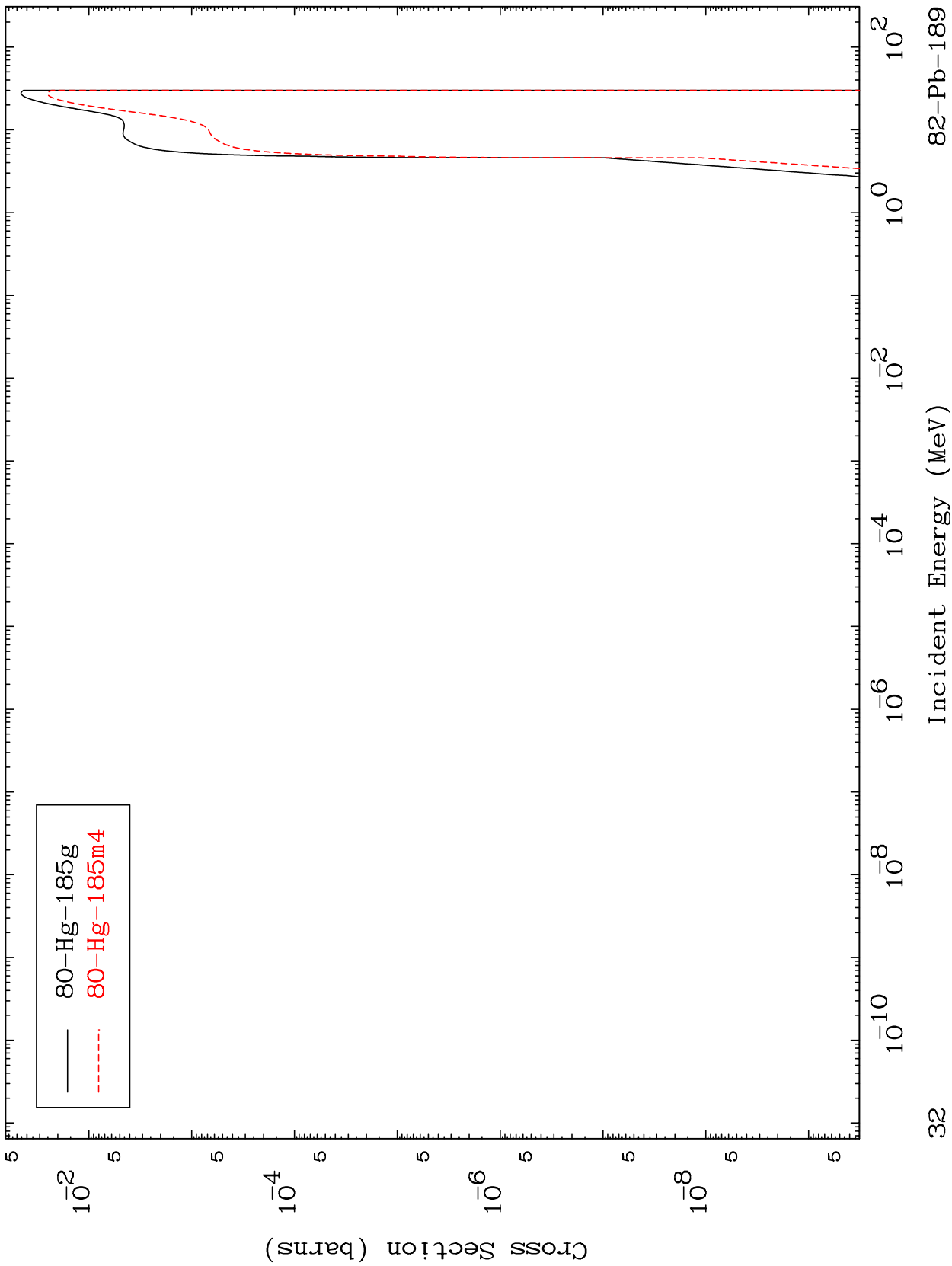


MAT 8180

$(n, n') \alpha$

82-Pb-189

Radionuclide Production Cross Section



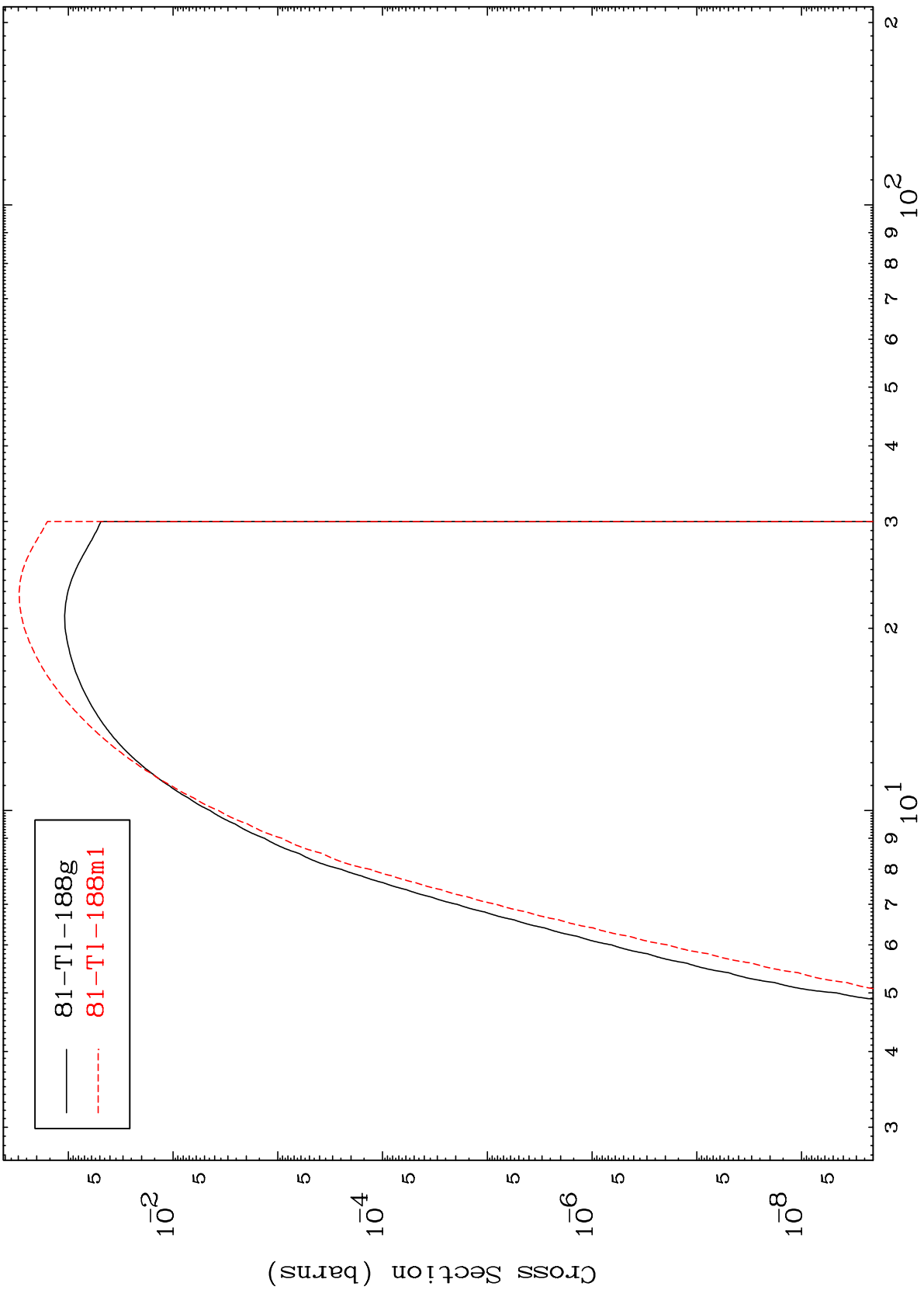
80-Hg-185g
80-Hg-185m4

MAT 8180

(n,n') p

82-Pb-189

Radionuclide Production Cross Section



33

Incident Energy (MeV)

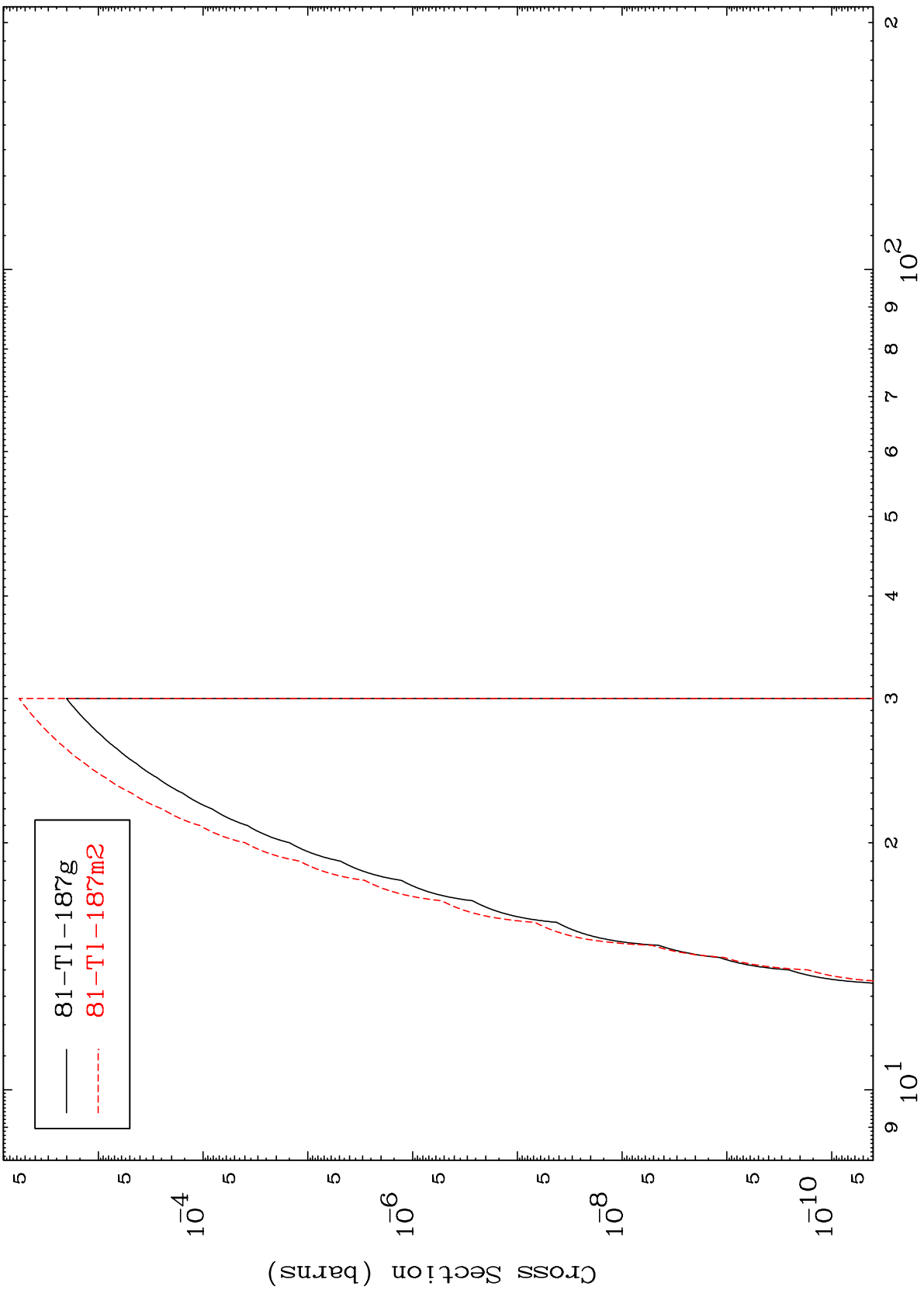
82-Pb-189

MAT 8180

(n,n') d

82-Pb-189

Radionuclide Production Cross Section

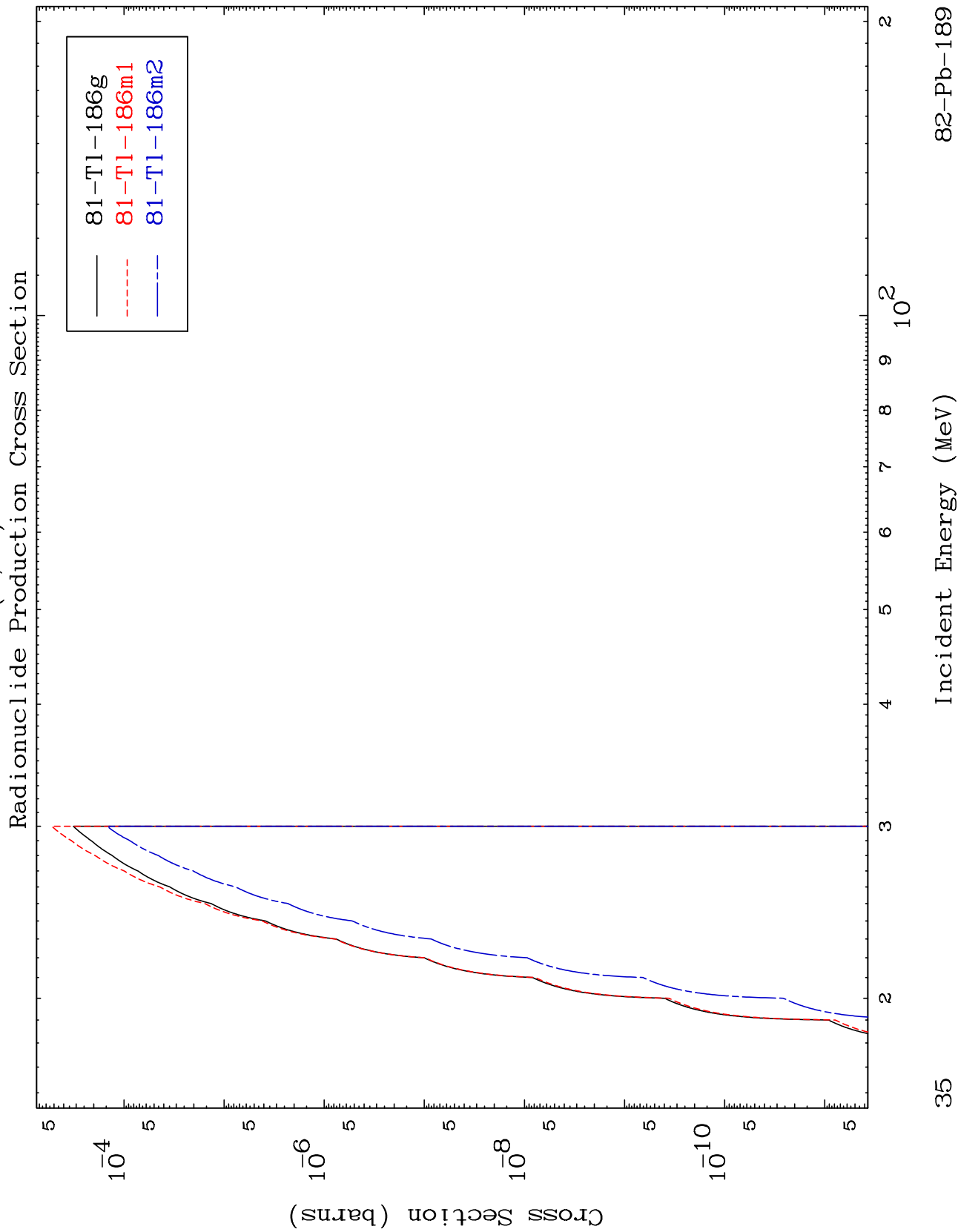


81-Tl-187g
81-Tl-187m2

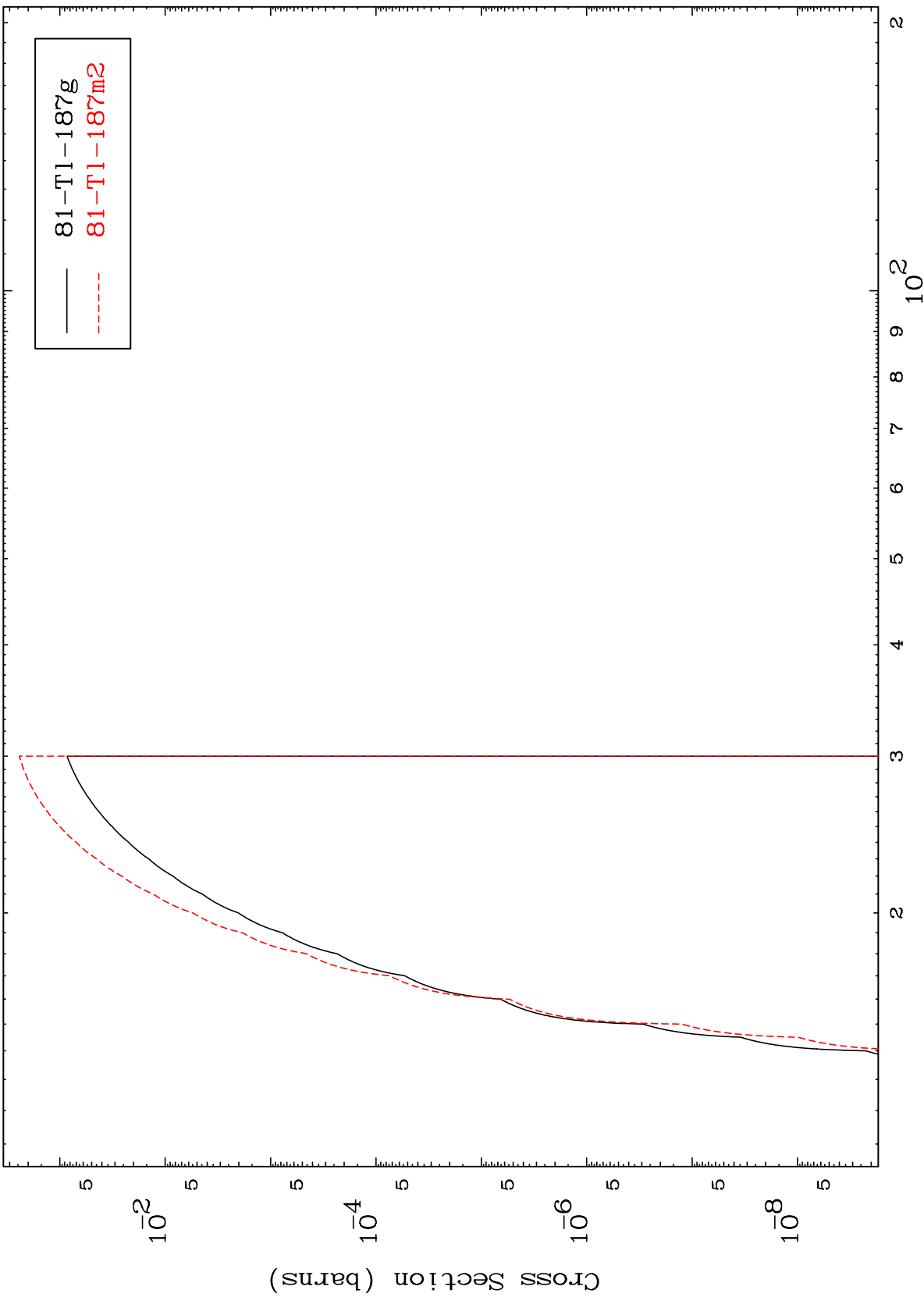
34

Incident Energy (MeV)

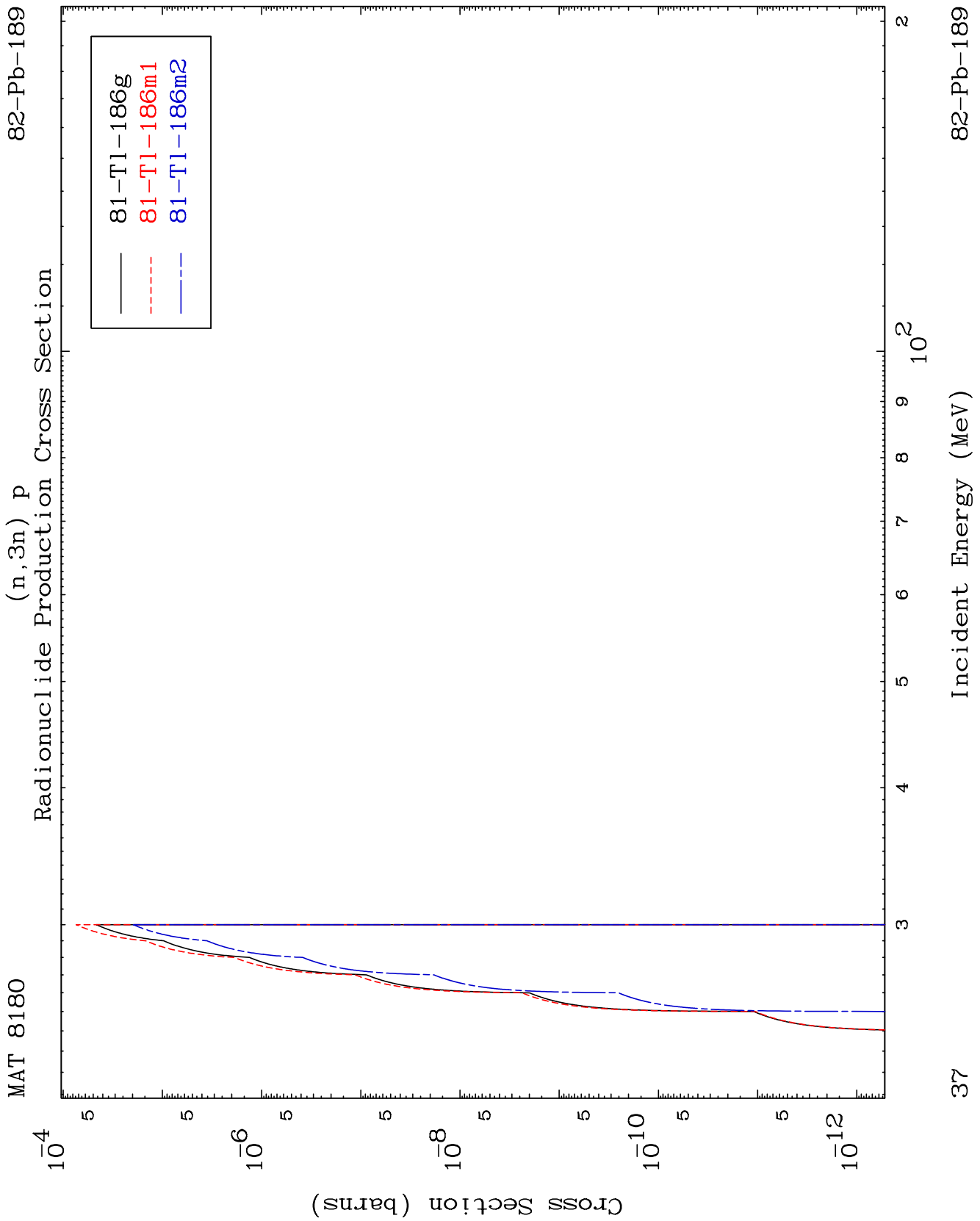
82-Pb-189



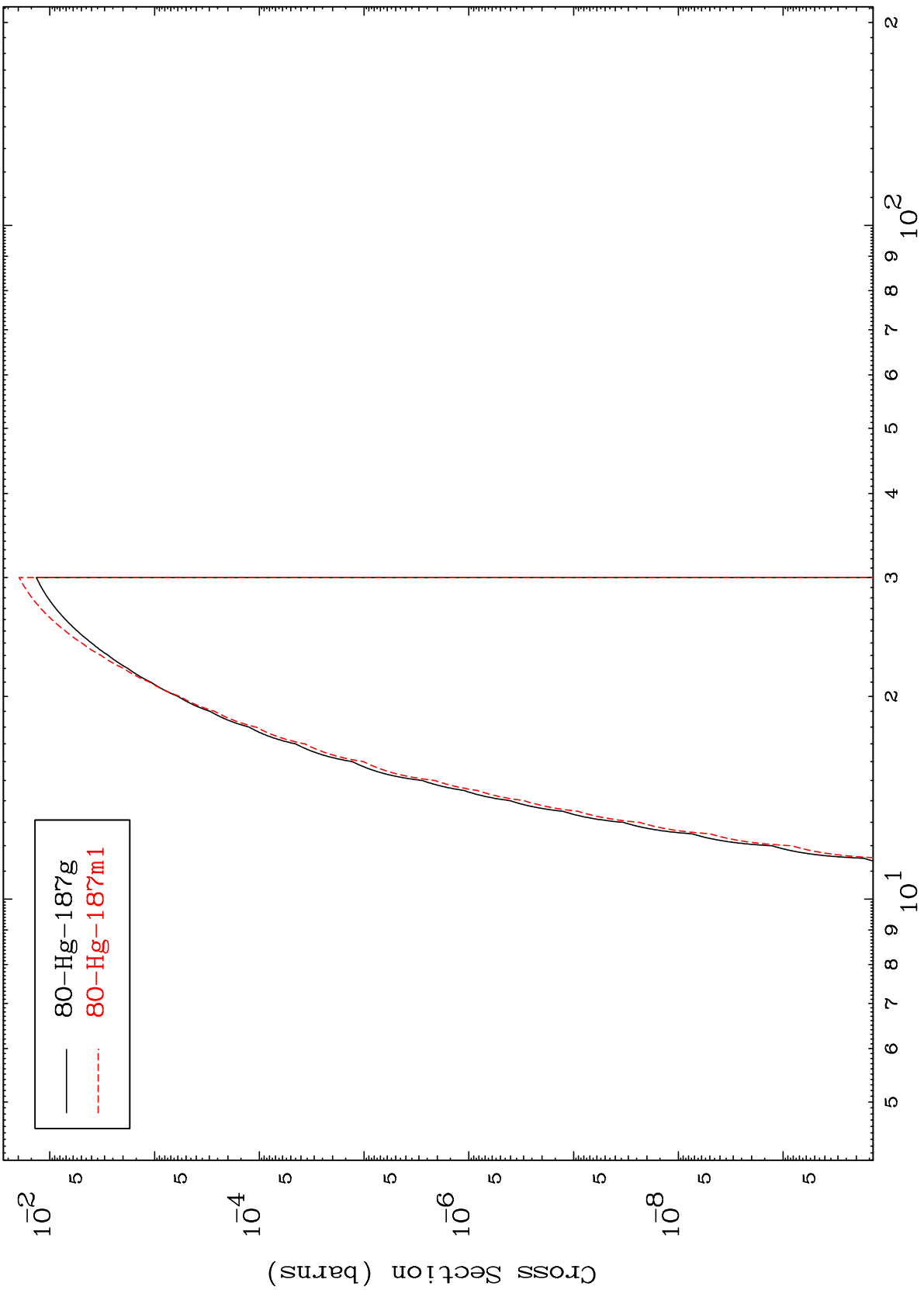
Radionuclide Production Cross Section



81-Tl-187g
81-Tl-187m2



Radionuclide Production Cross Section



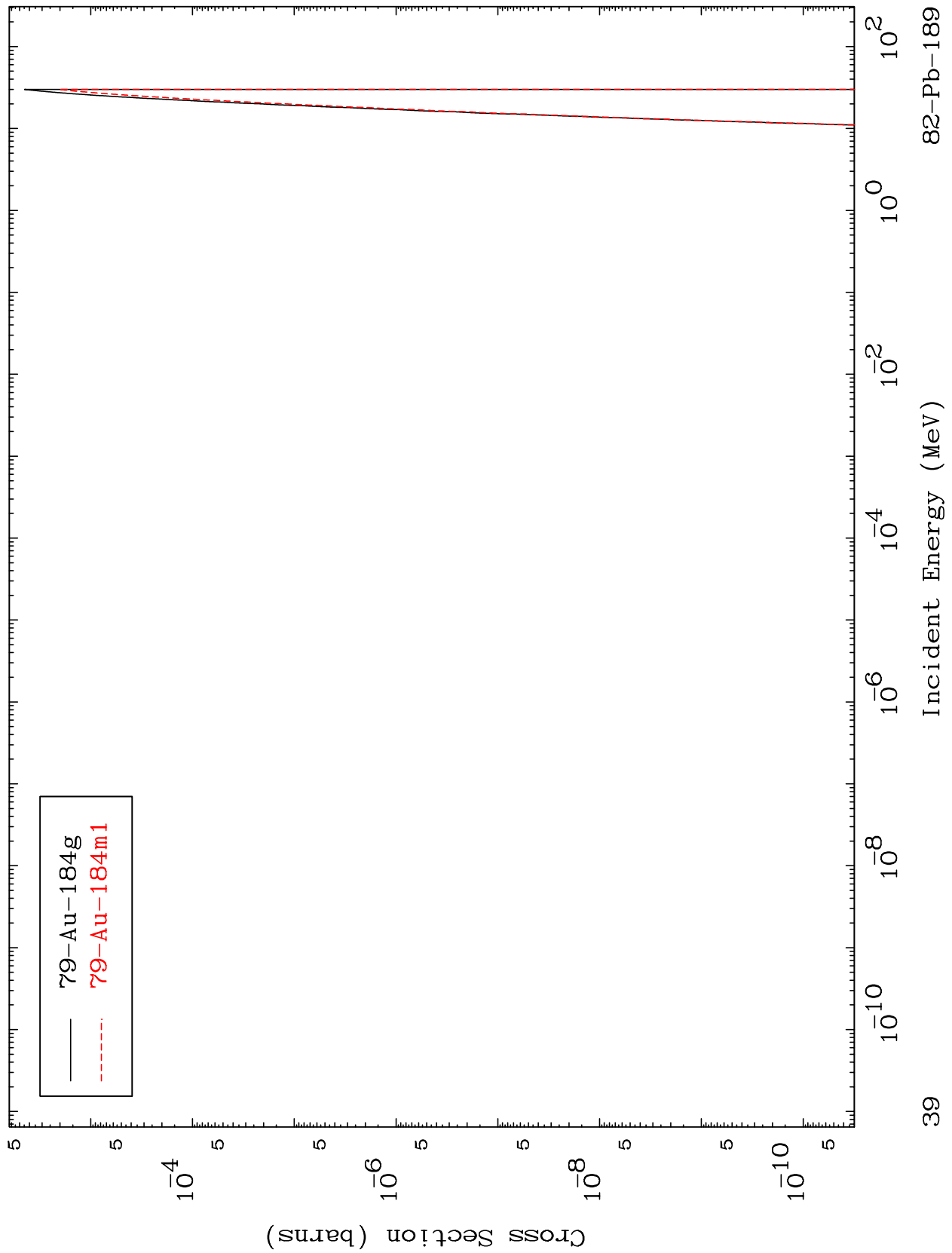
80-Hg-187g
80-Hg-187m1

MAT 8180

(n,n') p α

82-Pb-189

Radionuclide Production Cross Section

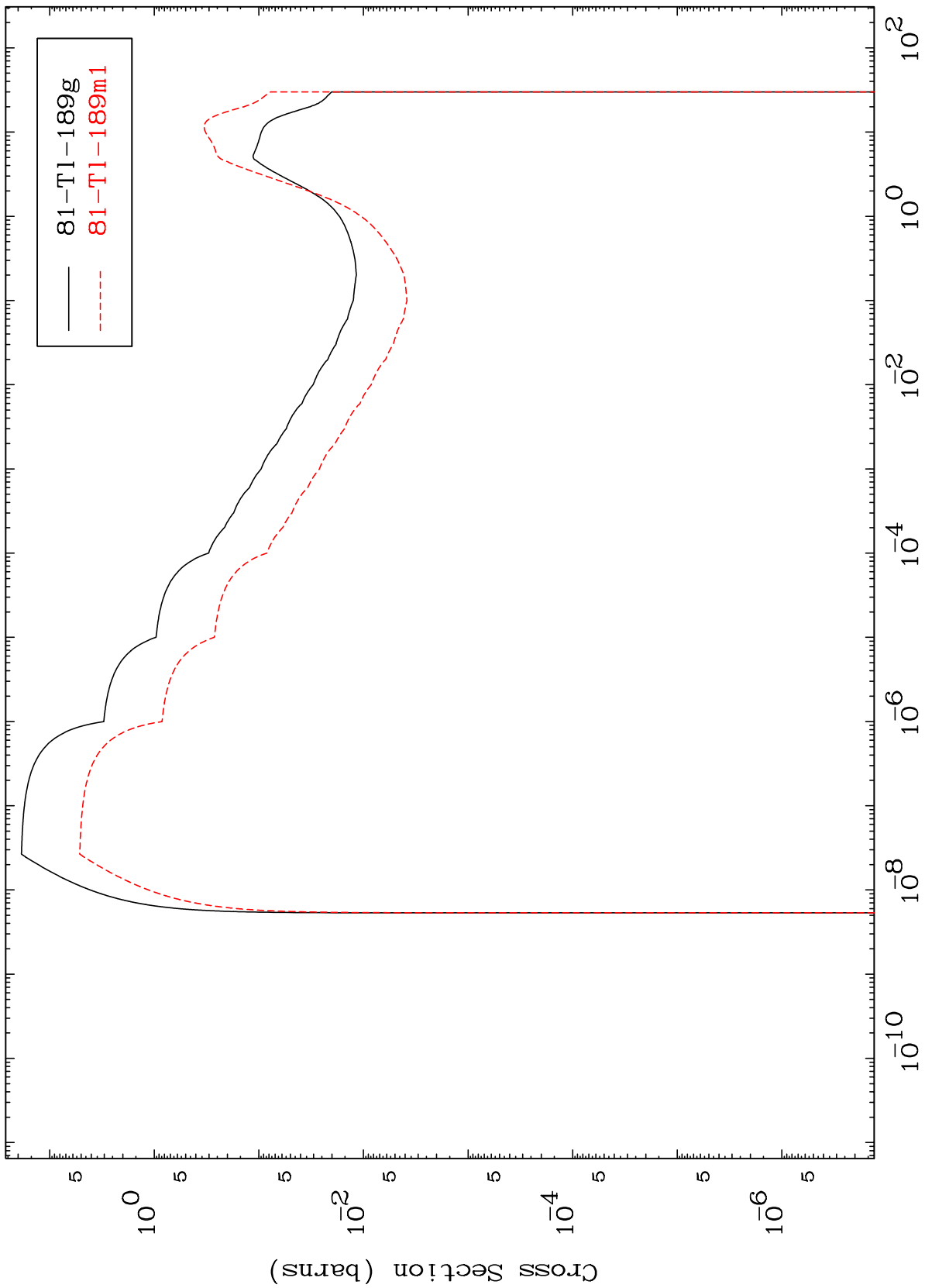


79-Au-184g
79-Au-184m1

MAT 8180

82-Pb-189

(n,p)
Radionuclide Production Cross Section



— 81-Tl-189g
- - - 81-Tl-189m1

40

82-Pb-189

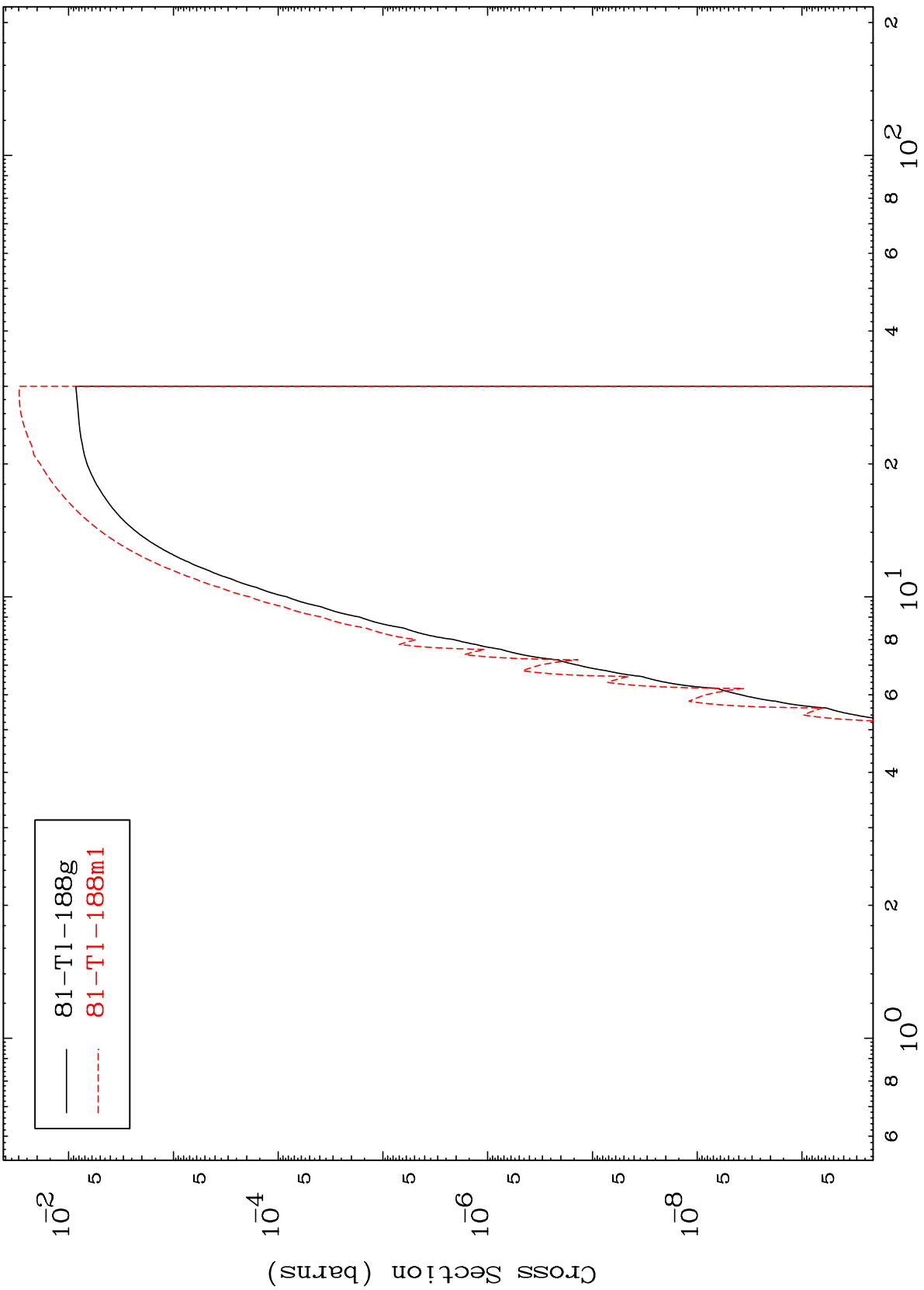
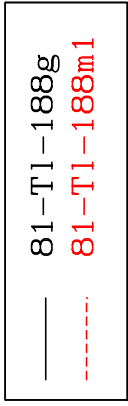
Incident Energy (MeV)

MAT 8180

(n,d)

82-Pb-189

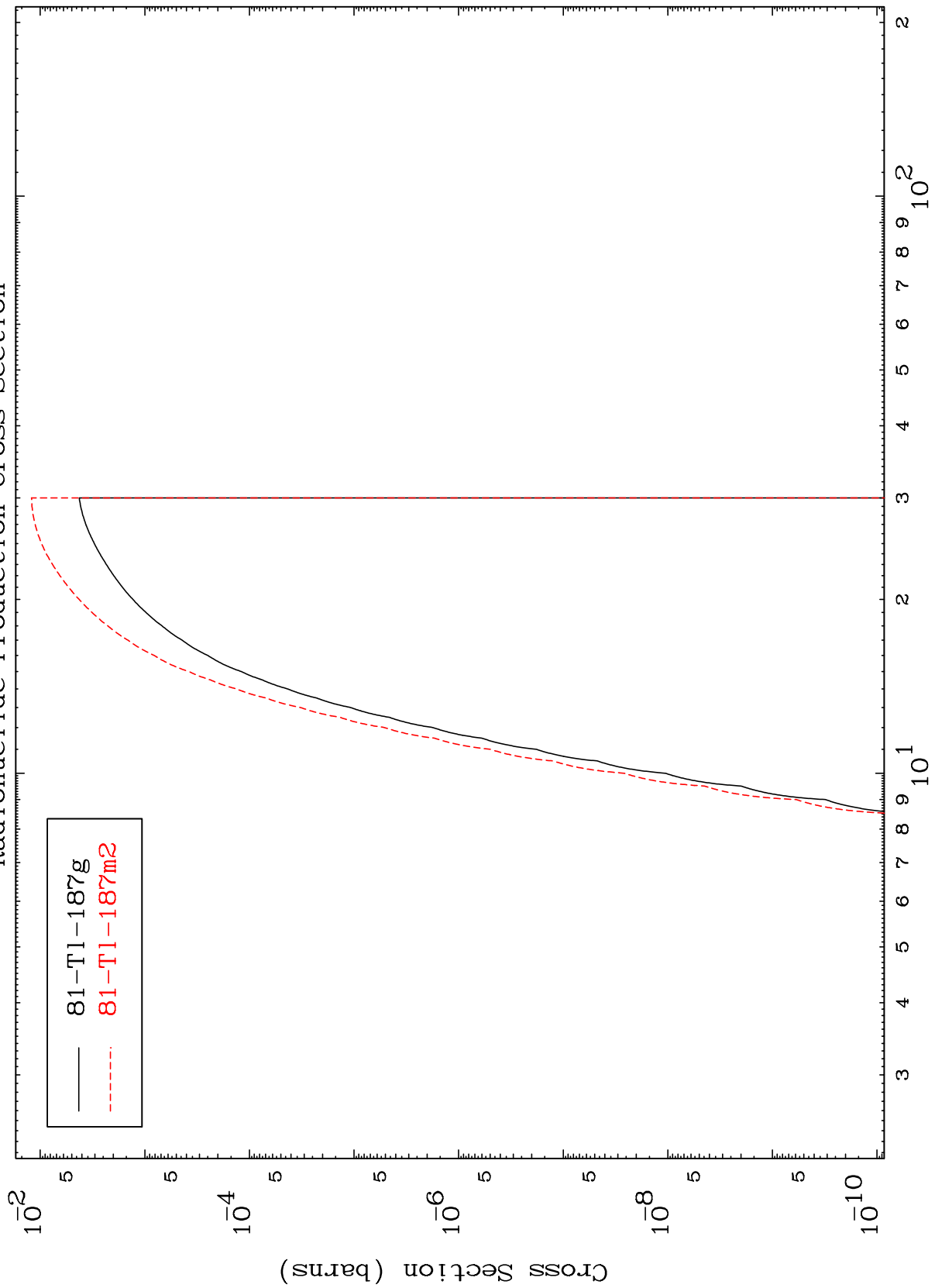
Radionuclide Production Cross Section



MAT 8180

82-Pb-189

(n, t)
Radionuclide Production Cross Section



82-Pb-189

Incident Energy (MeV)

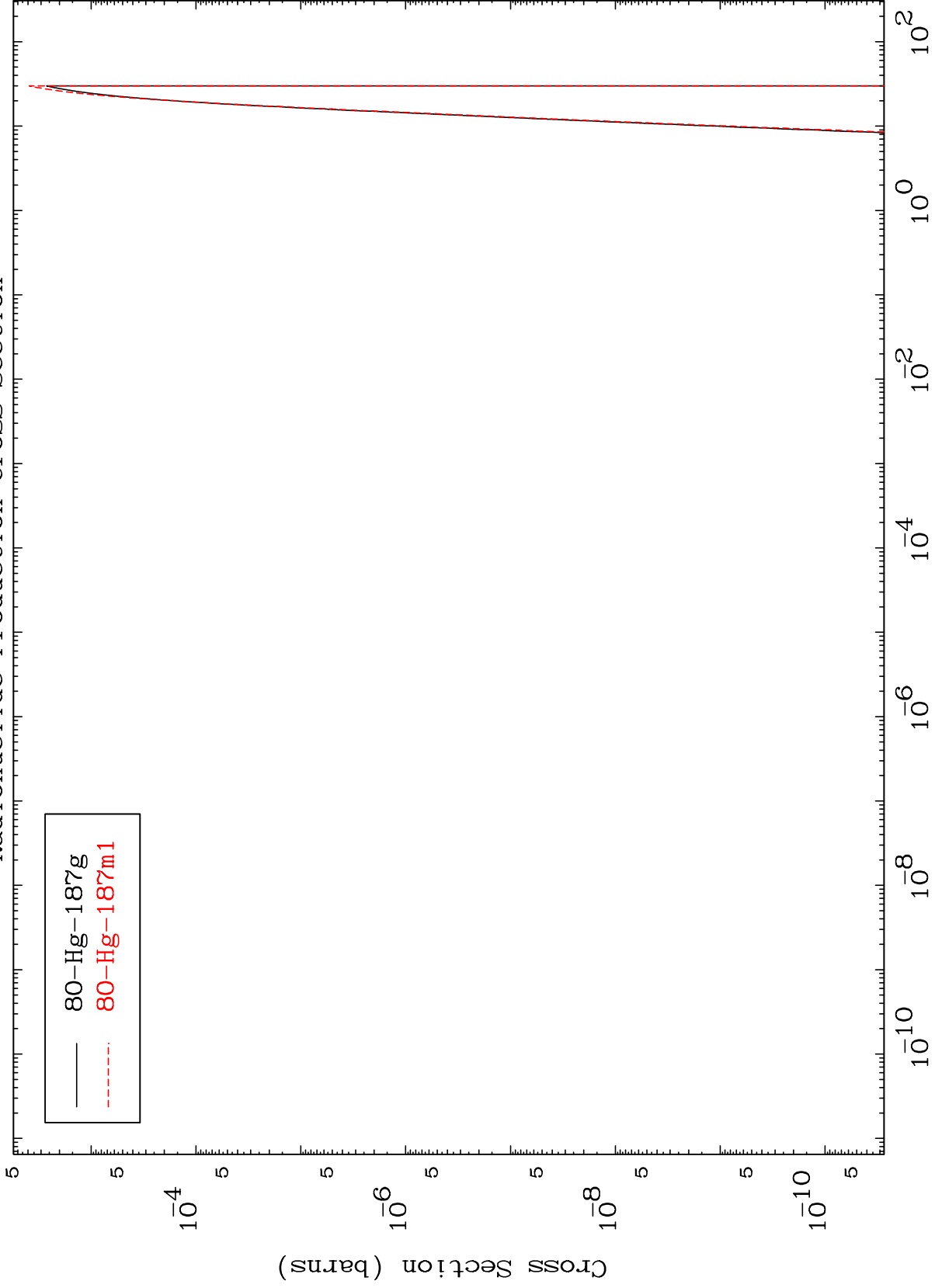
42

MAT 8180

(n,He-3)

82-Pb-189

Radionuclide Production Cross Section



43

Incident Energy (MeV)

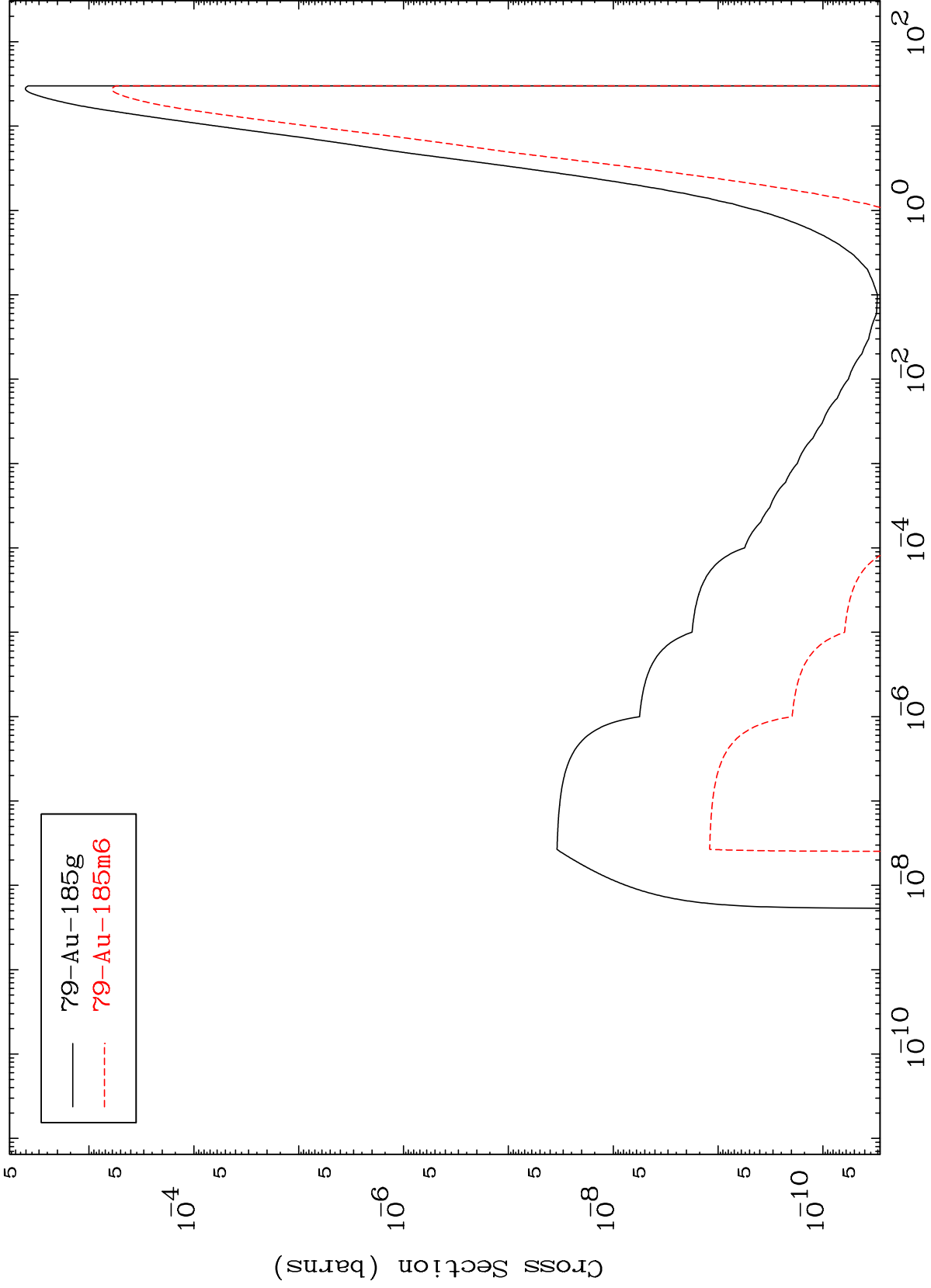
82-Pb-189

MAT 8180

(n,p) α

82-Pb-189

Radionuclide Production Cross Section



79-Au-185g
79-Au-185m6

Incident Energy (MeV)

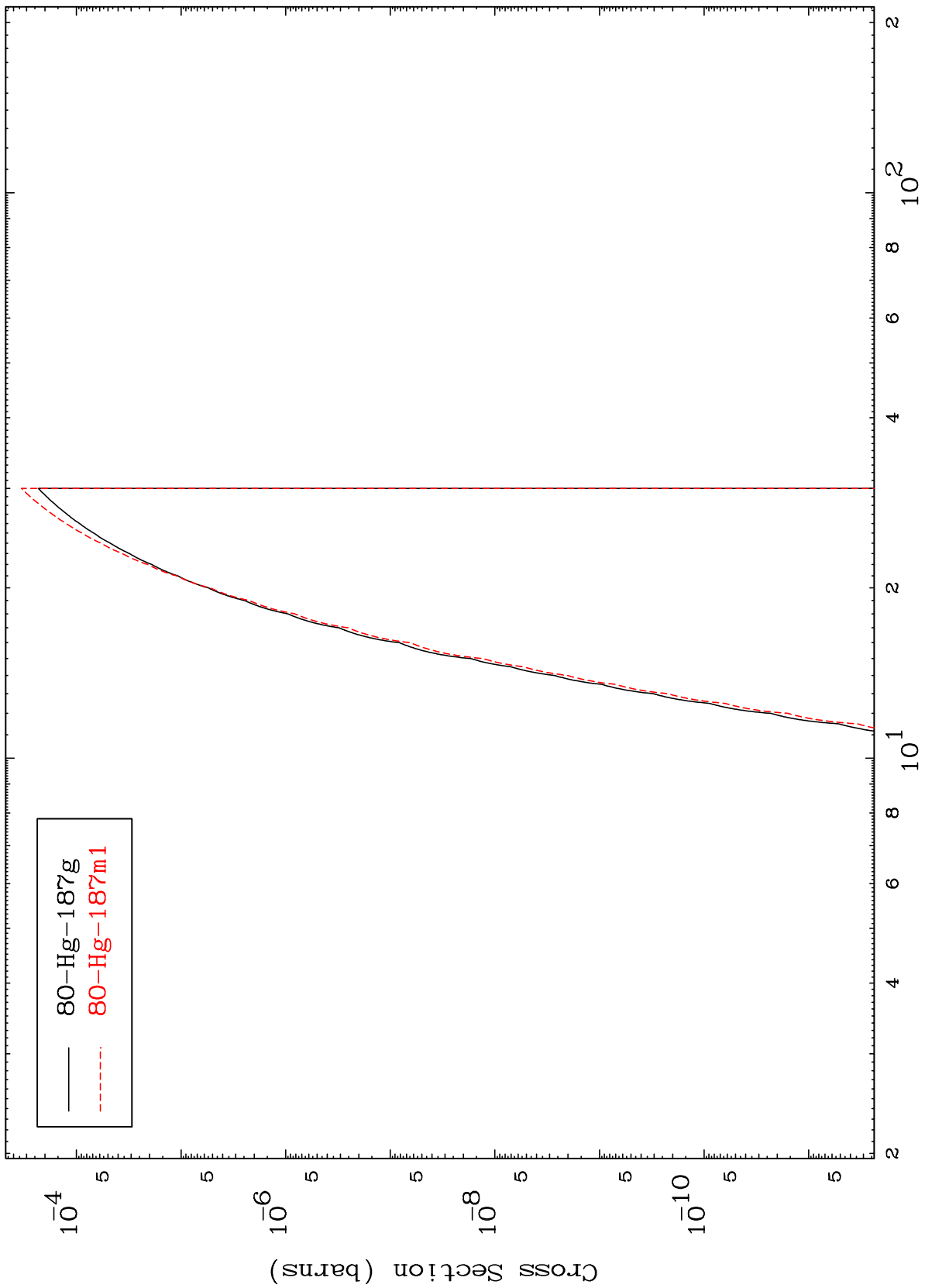
82-Pb-189

MAT 8180

(n,p) d

82-Pb-189

Radionuclide Production Cross Section



45

Incident Energy (MeV)

82-Pb-189

MAT 8180

(n,d) α

82-Pb-189

Radionuclide Production Cross Section

