

Program EVALPLOT  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net

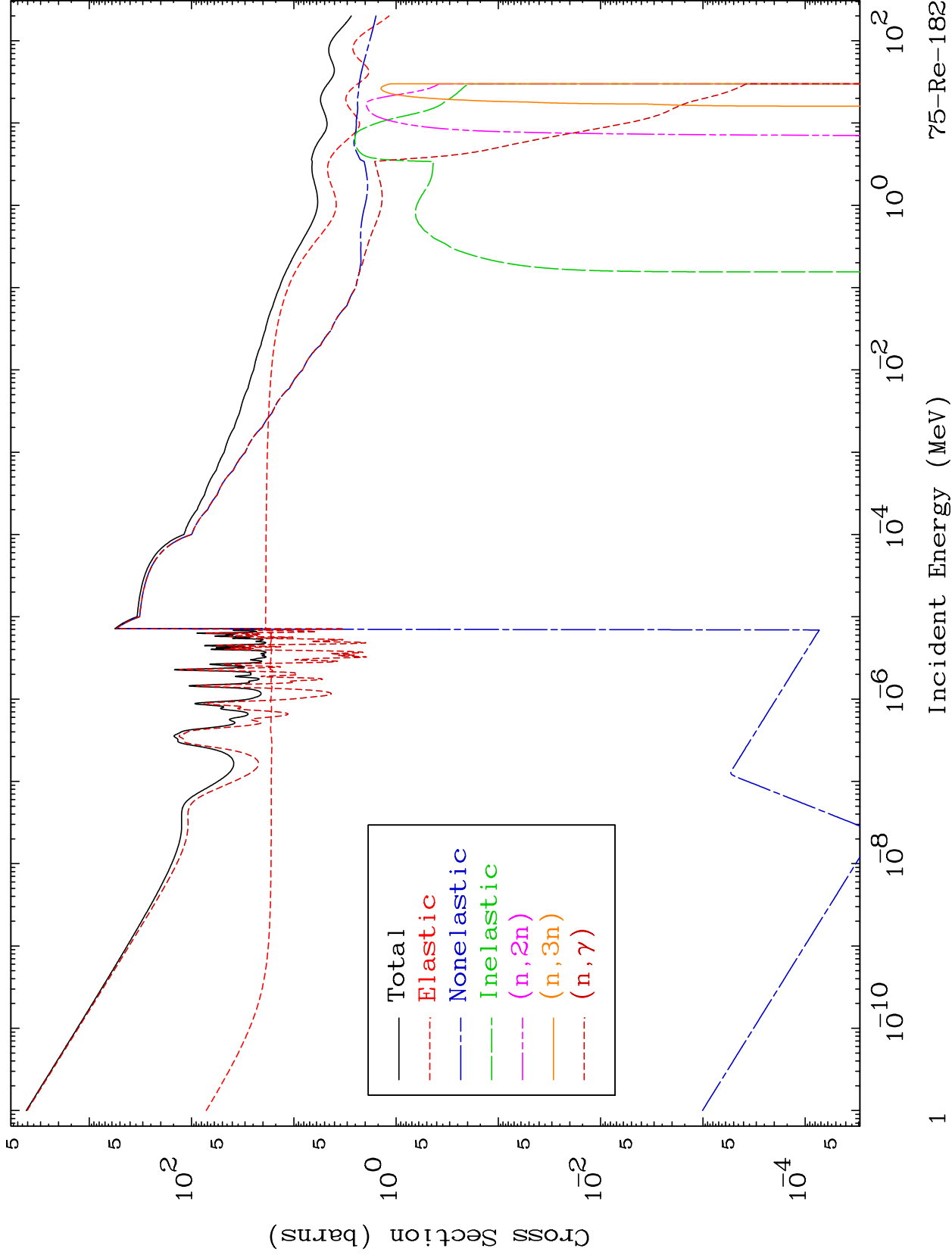
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7516

Neutron Major  
293 Kelvin Cross Sections

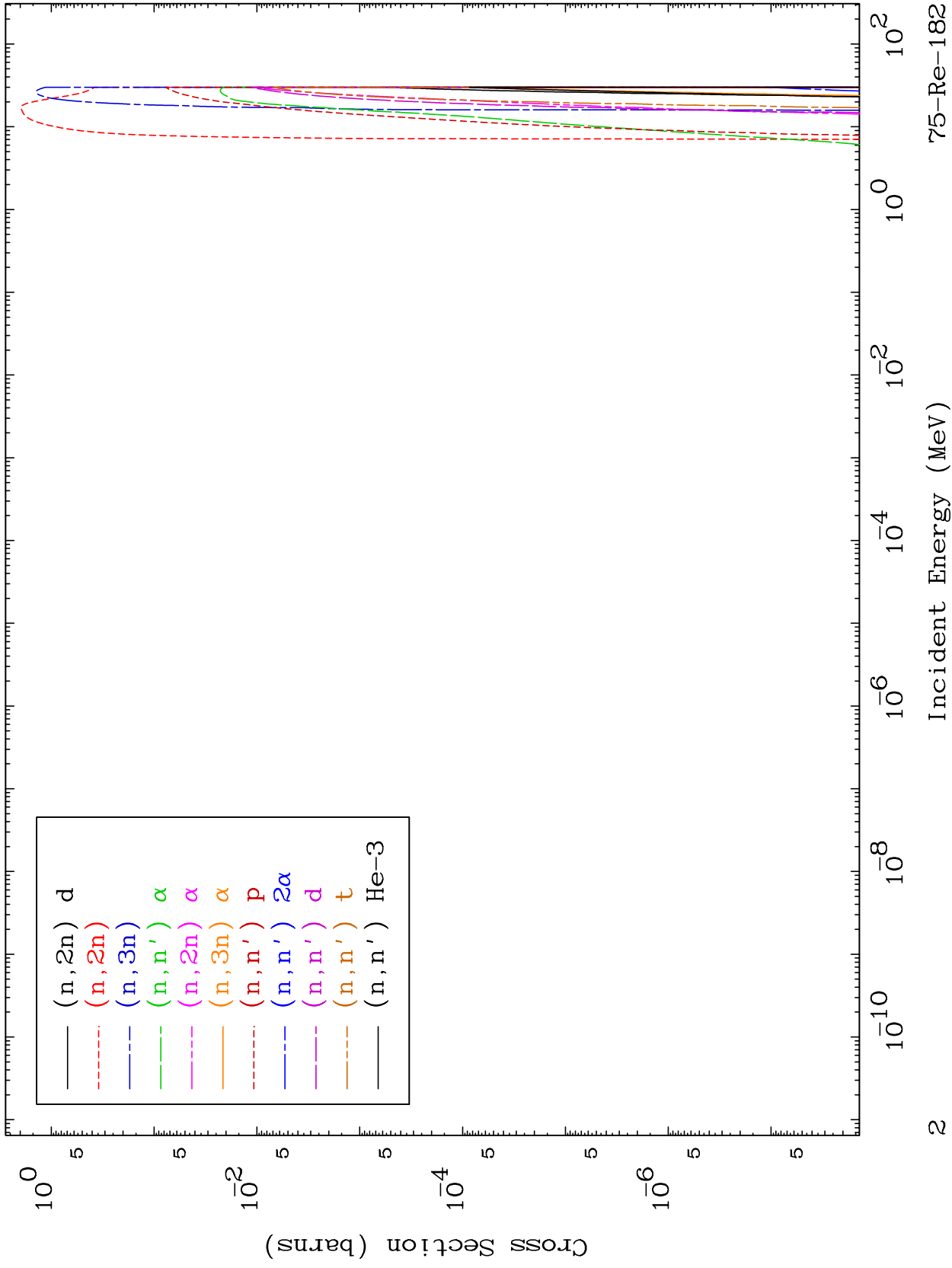
75-Re-182



MAT 7516

Neutron Absorption  
293 Kelvin Cross Sections

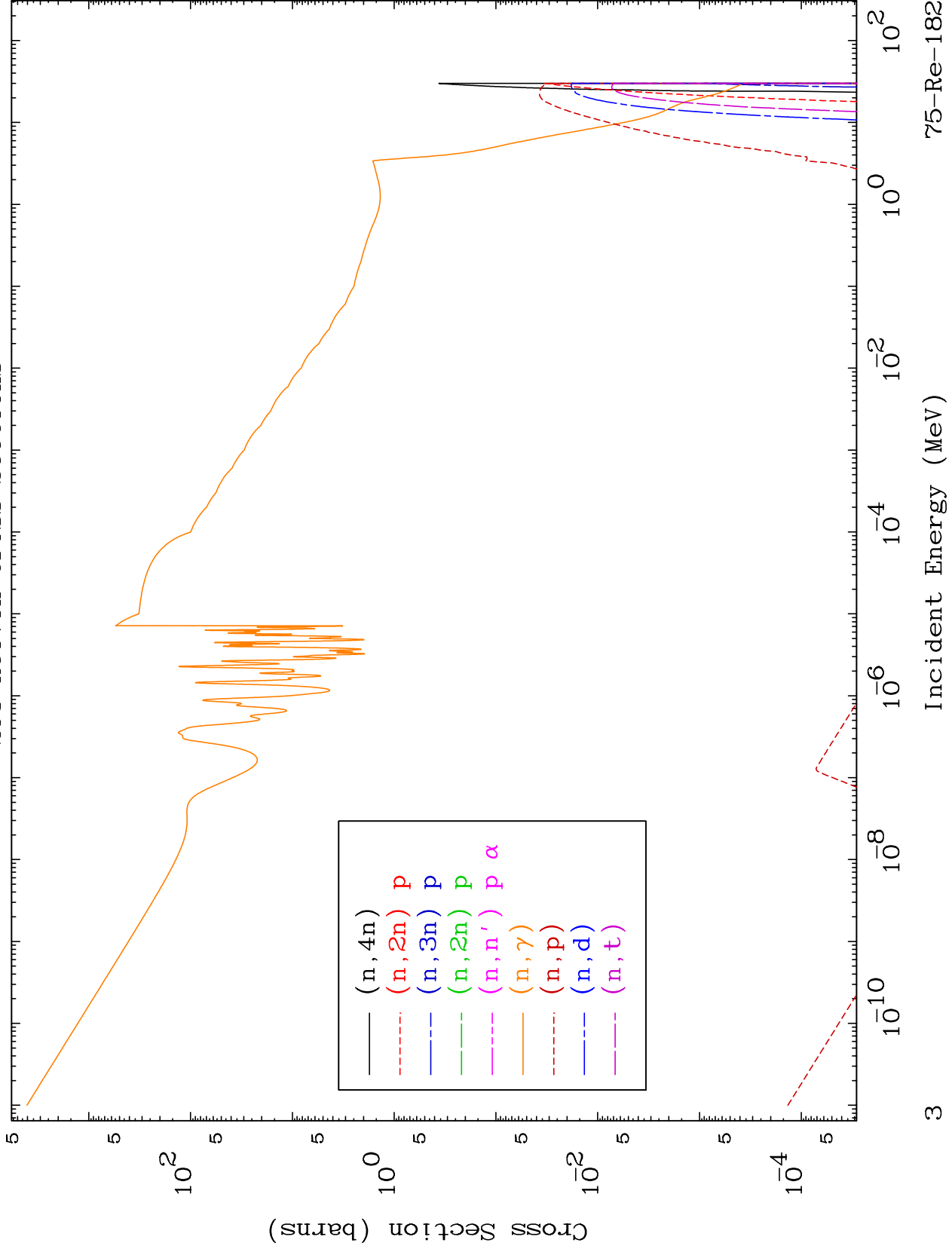
75-Re-182



MAT 7516

Neutron Absorption  
293 Kelvin Cross Sections

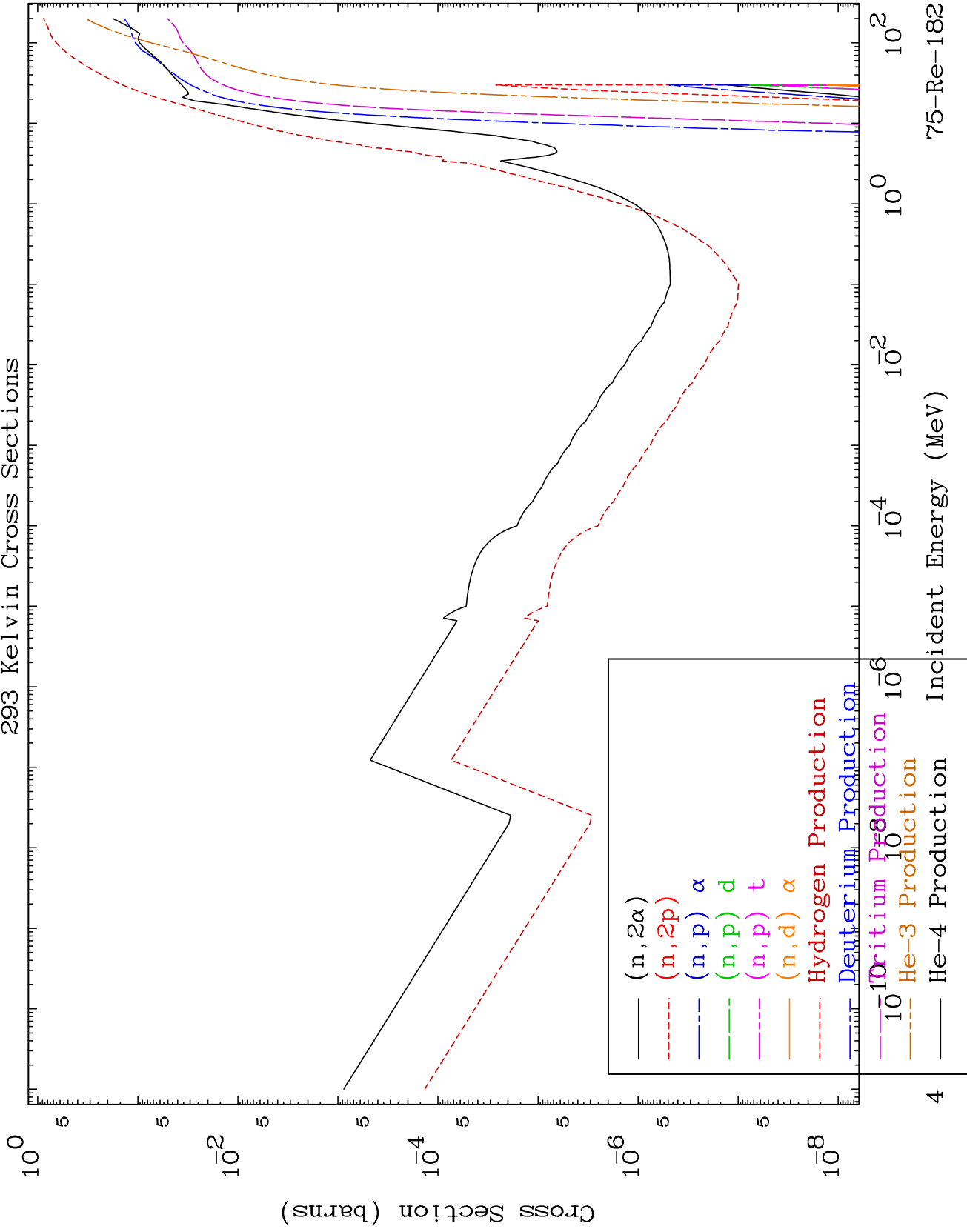
75-Re-182



MAT 7516

Neutron Absorption  
293 Kelvin Cross Sections

75-Re-182

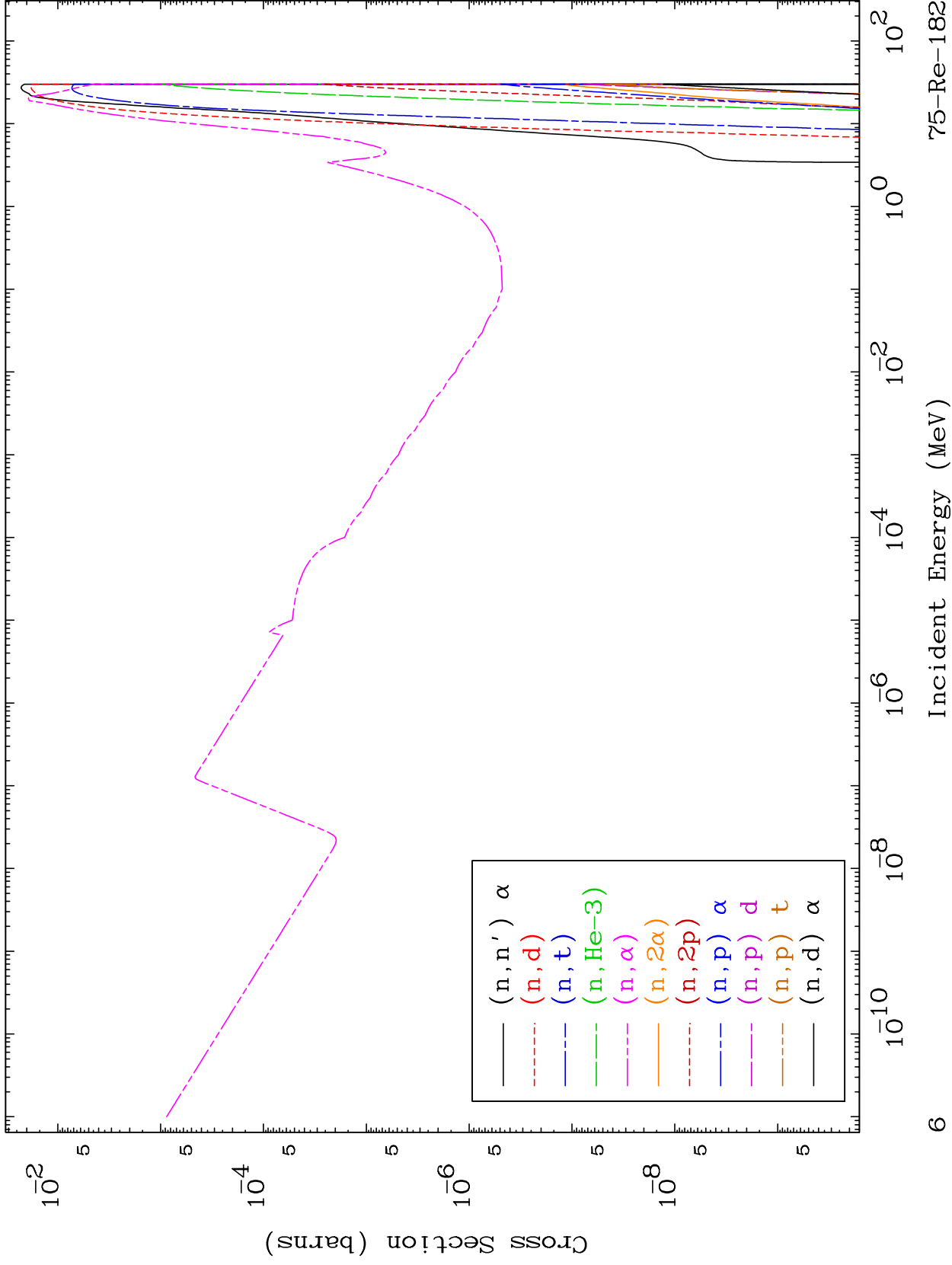


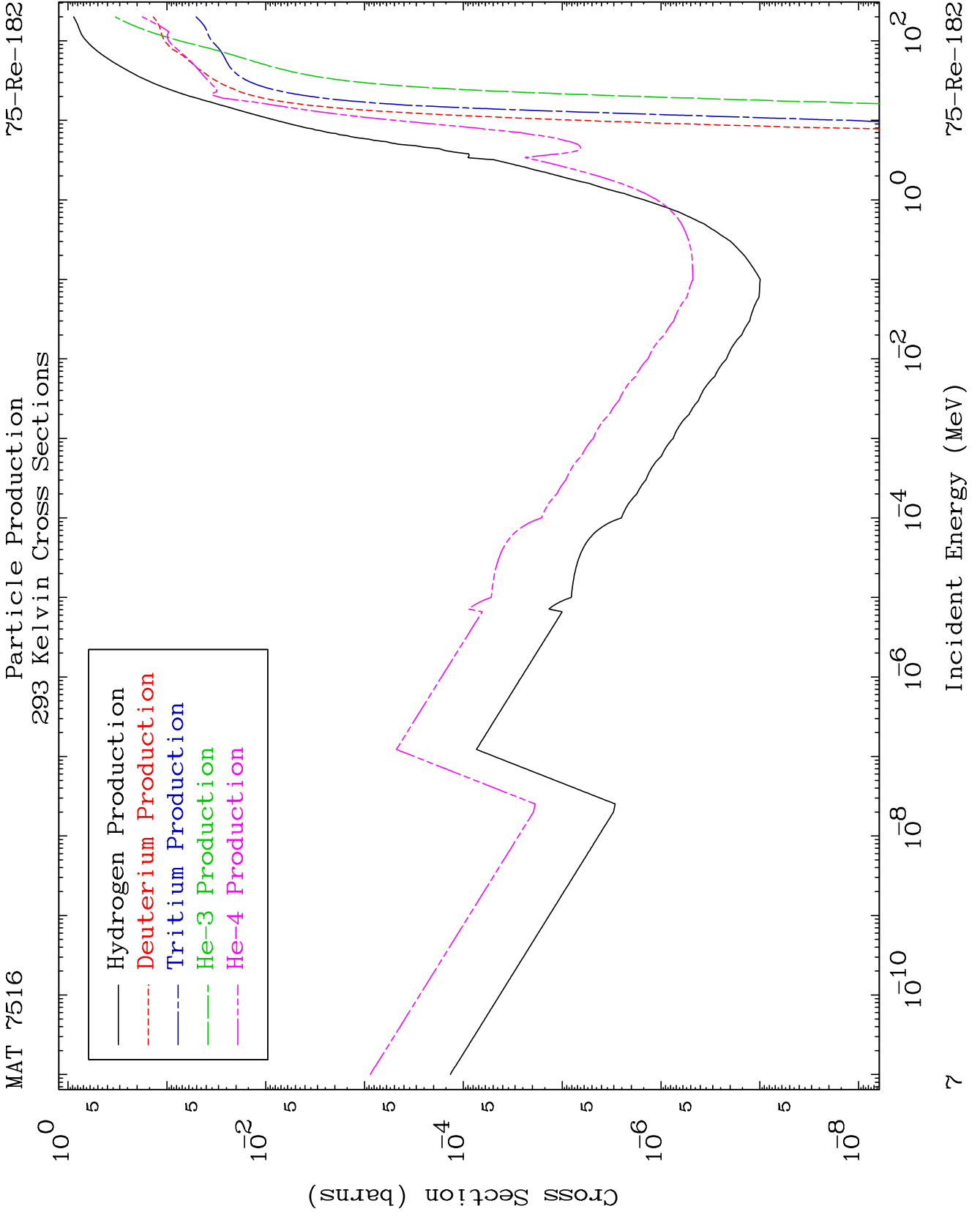


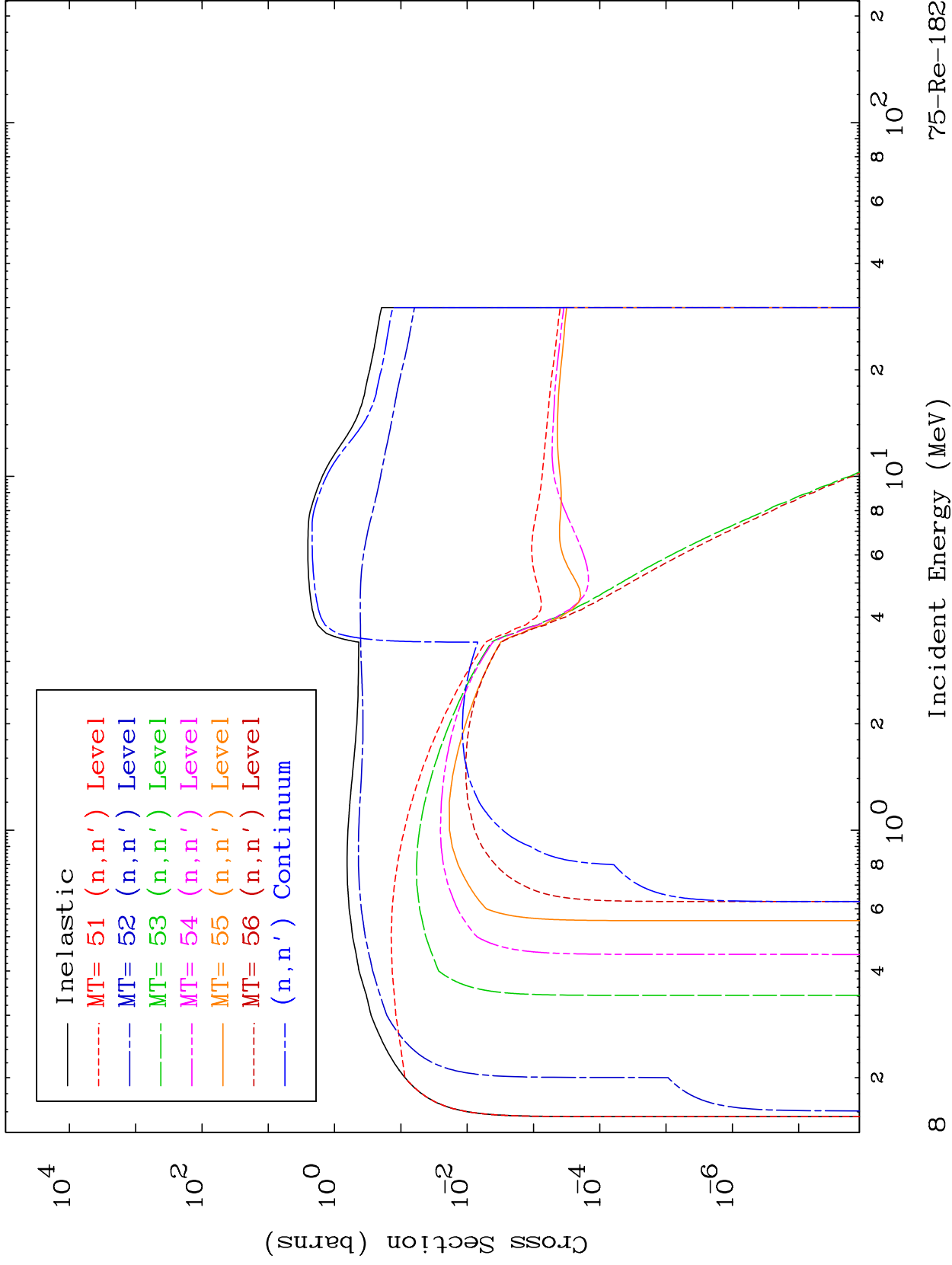
MAT 7516

Charged Particle  
293 Kelvin Cross Sections

75-Re-182



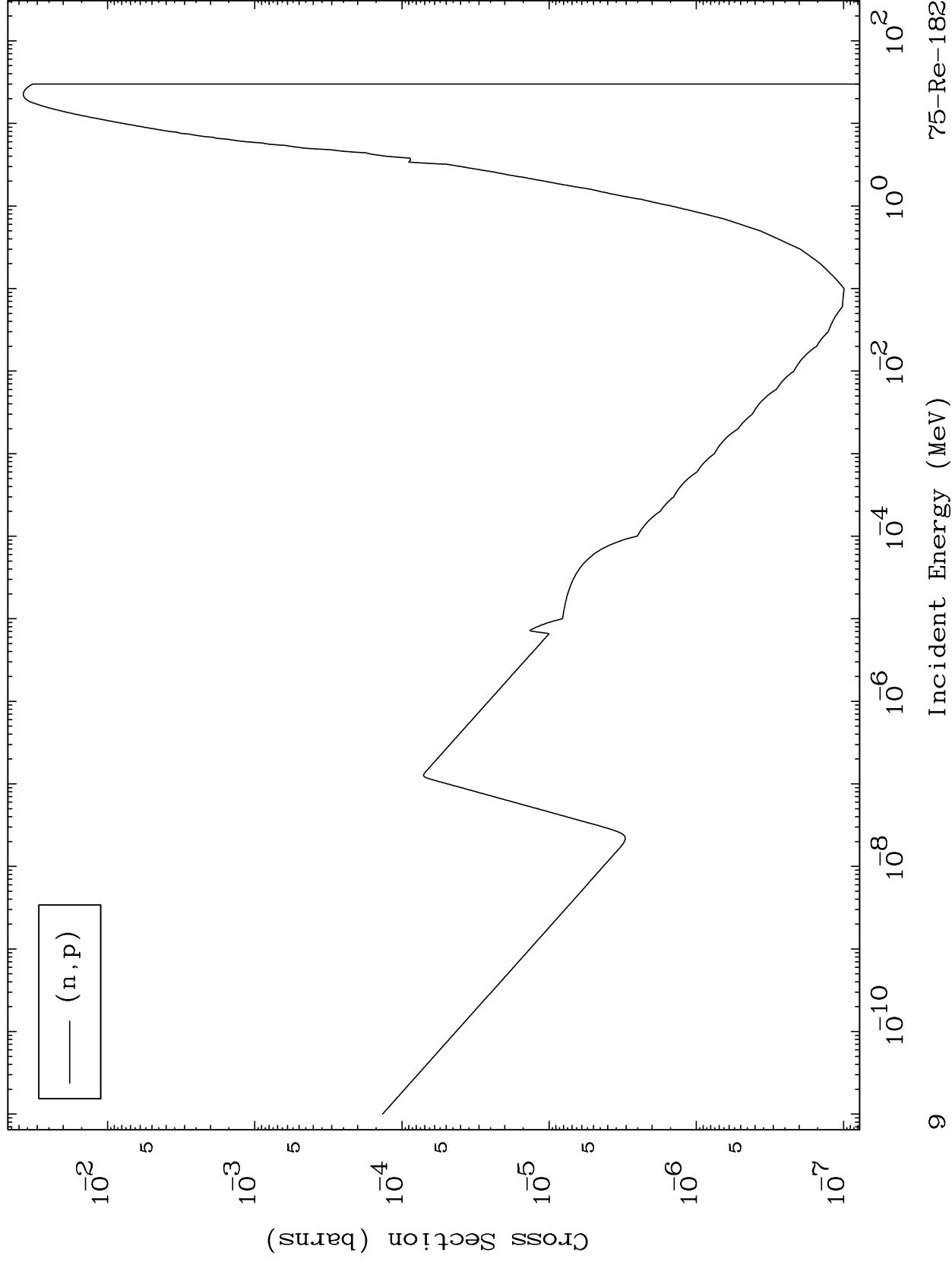




MAT 7516

(n,p) Levels  
293 Kelvin Cross Sections

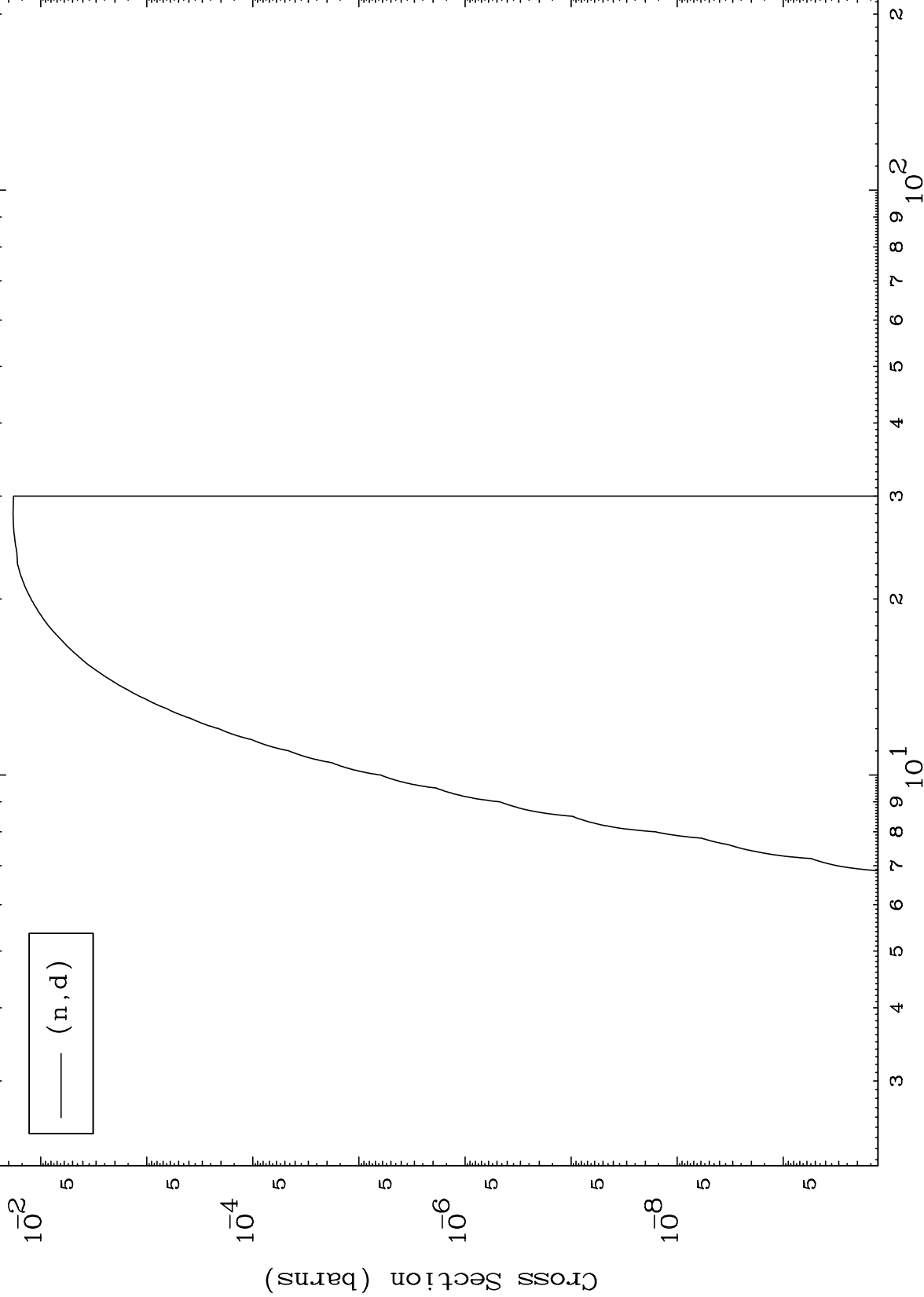
75-Re-182



MAT 7516

(n,d) Levels  
293 Kelvin Cross Sections

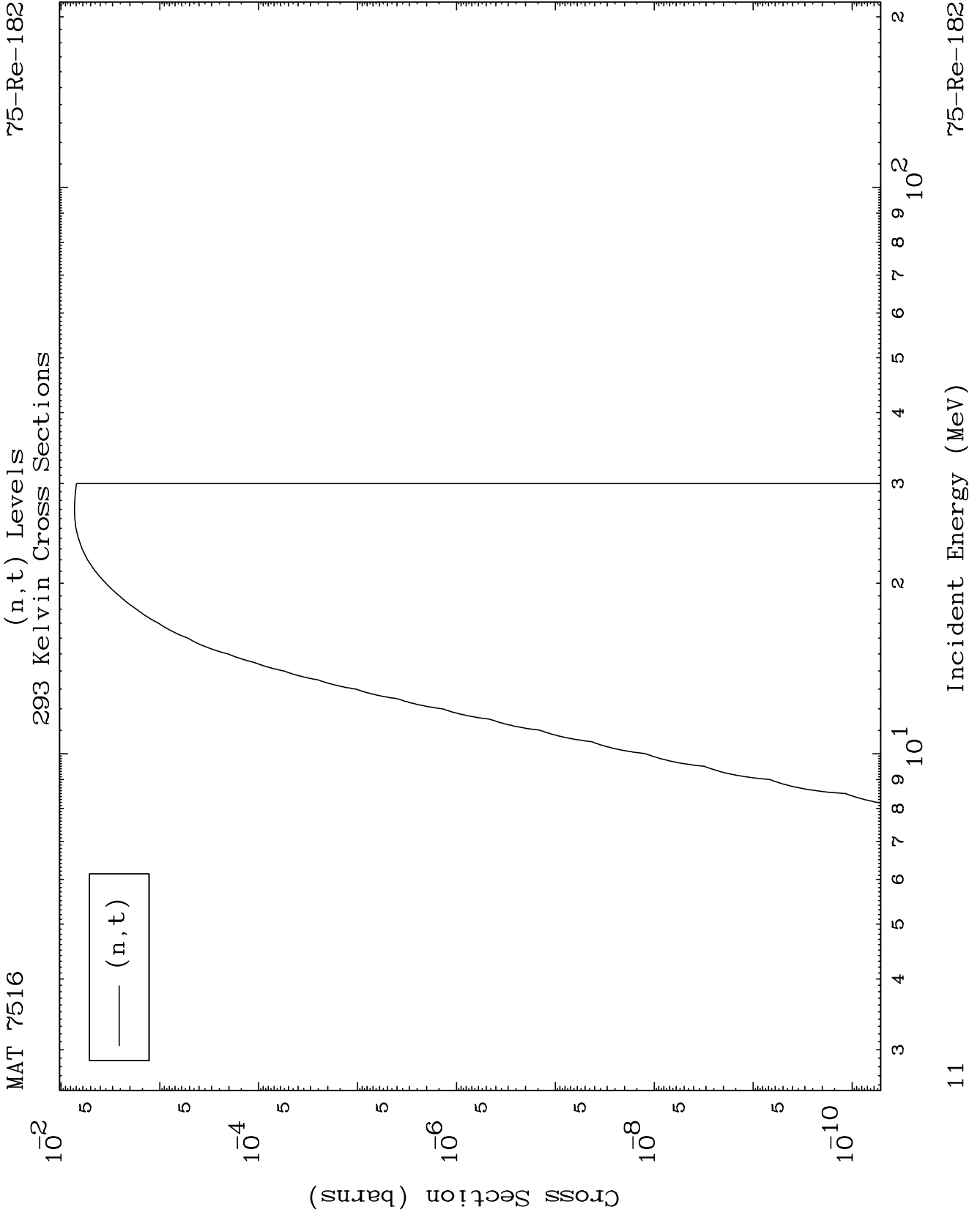
75-Re-182



10

Incident Energy (MeV)

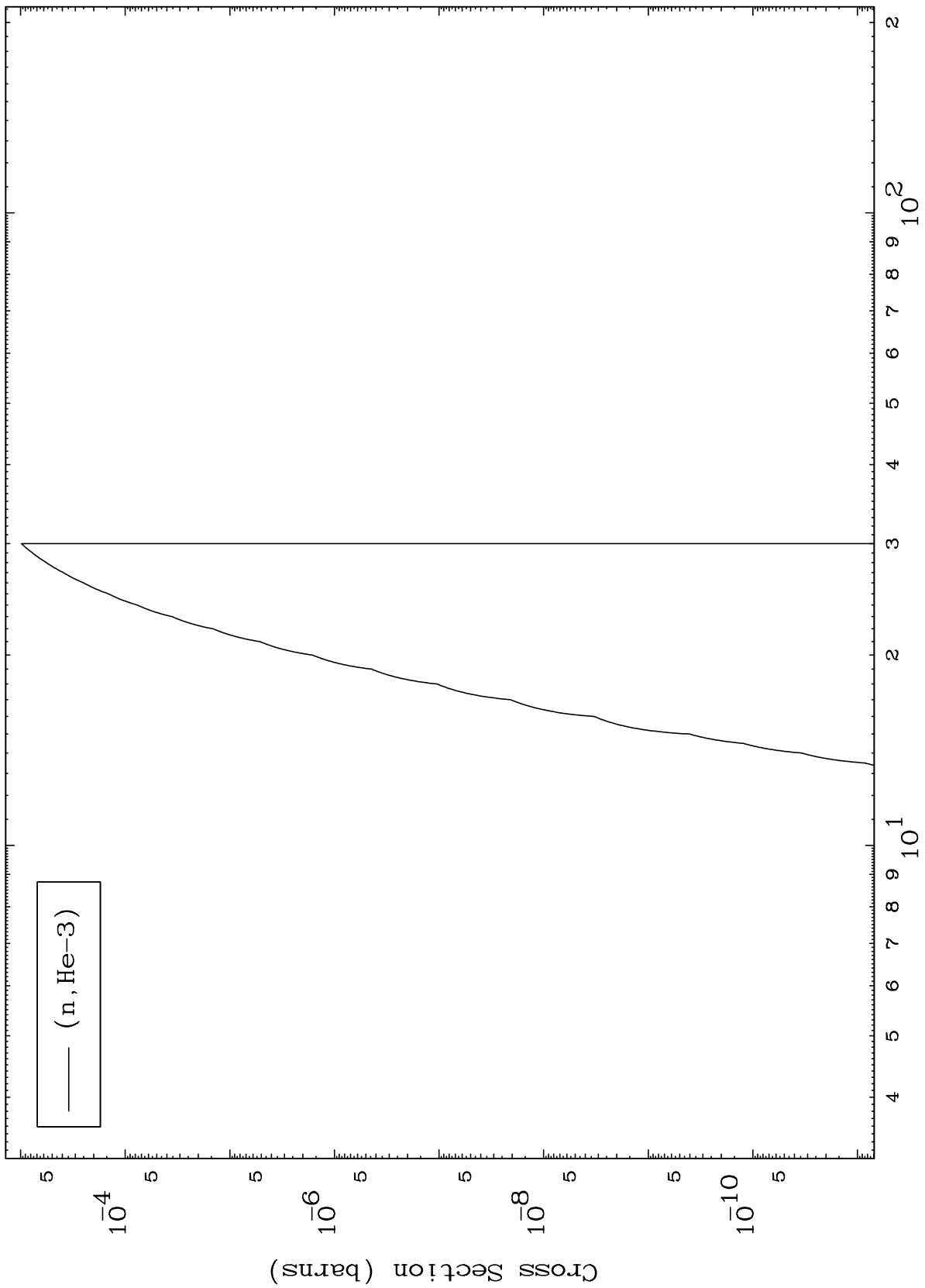
75-Re-182



MAT 7516

(n,He3) Levels  
293 Kelvin Cross Sections

75-Re-182



12

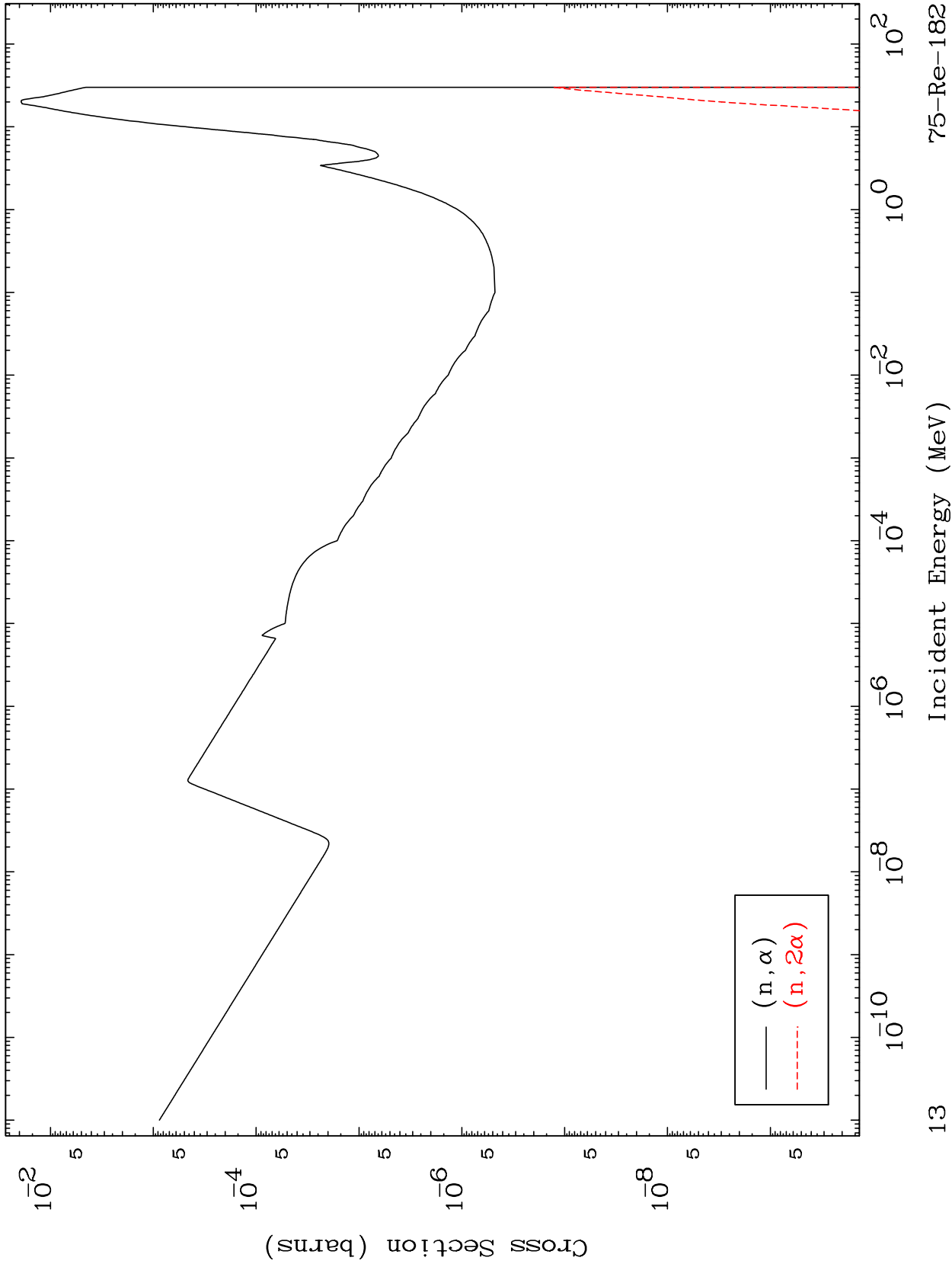
Incident Energy (MeV)

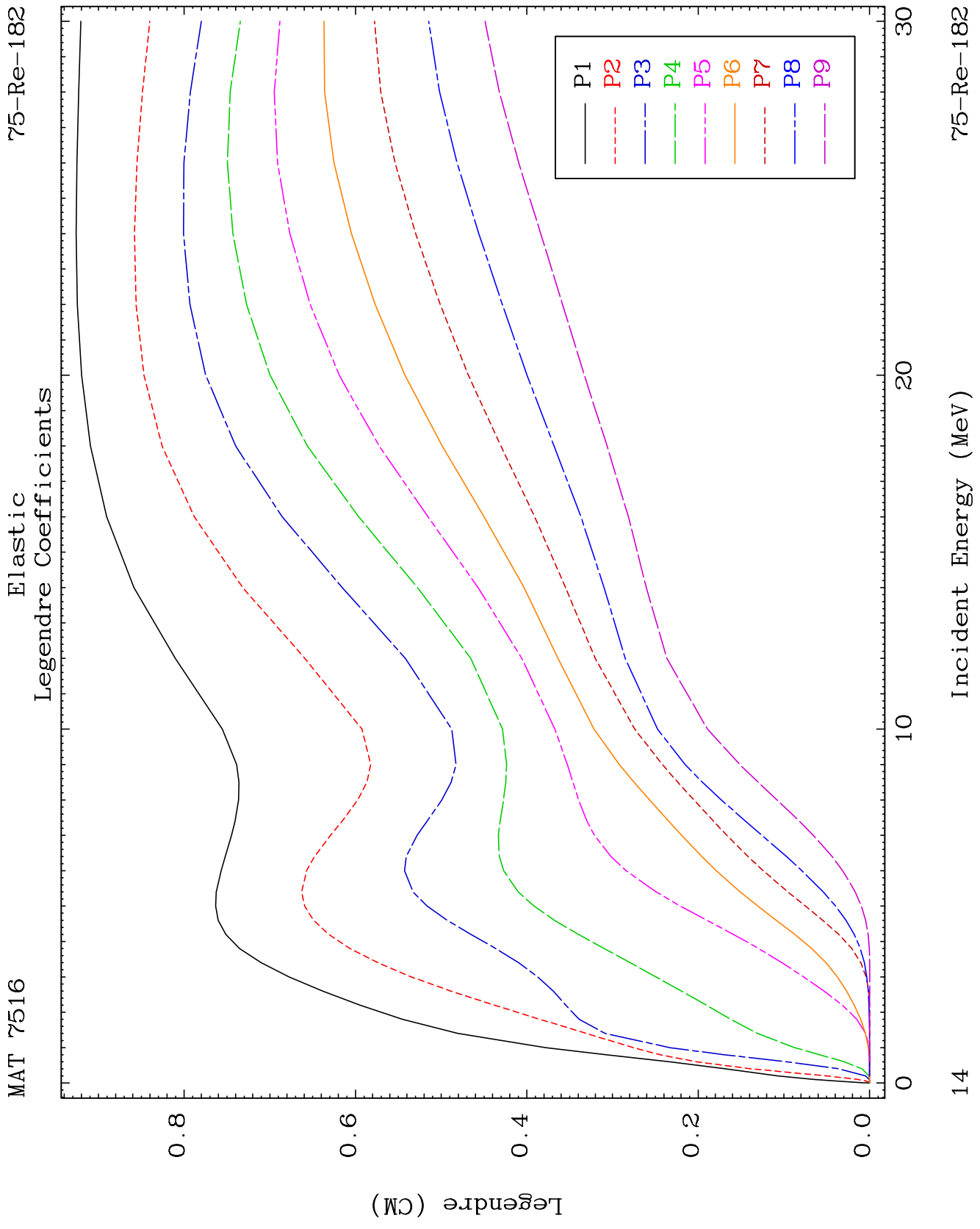
75-Re-182

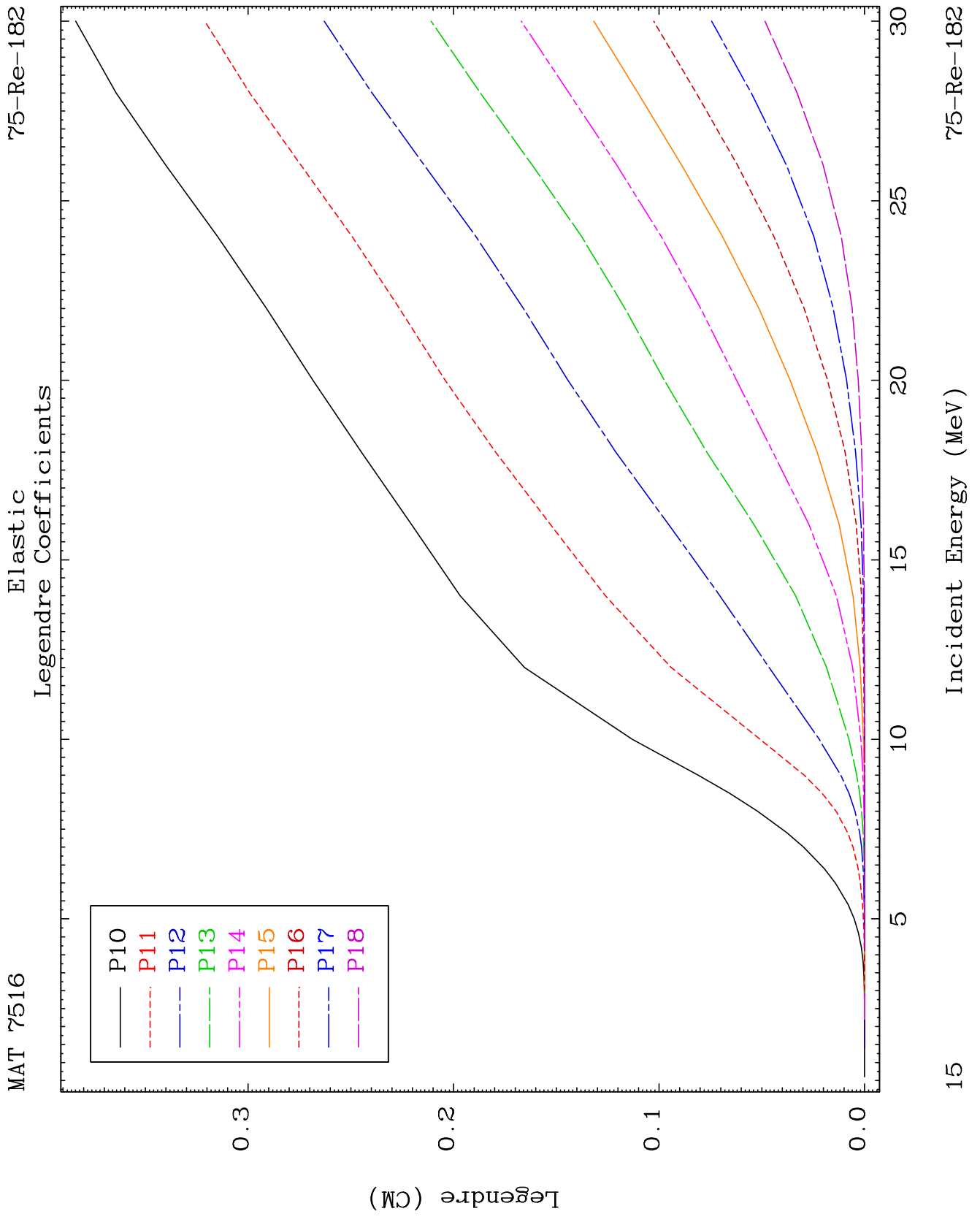
MAT 7516

(n,α) Levels  
293 Kelvin Cross Sections

75-Re-182



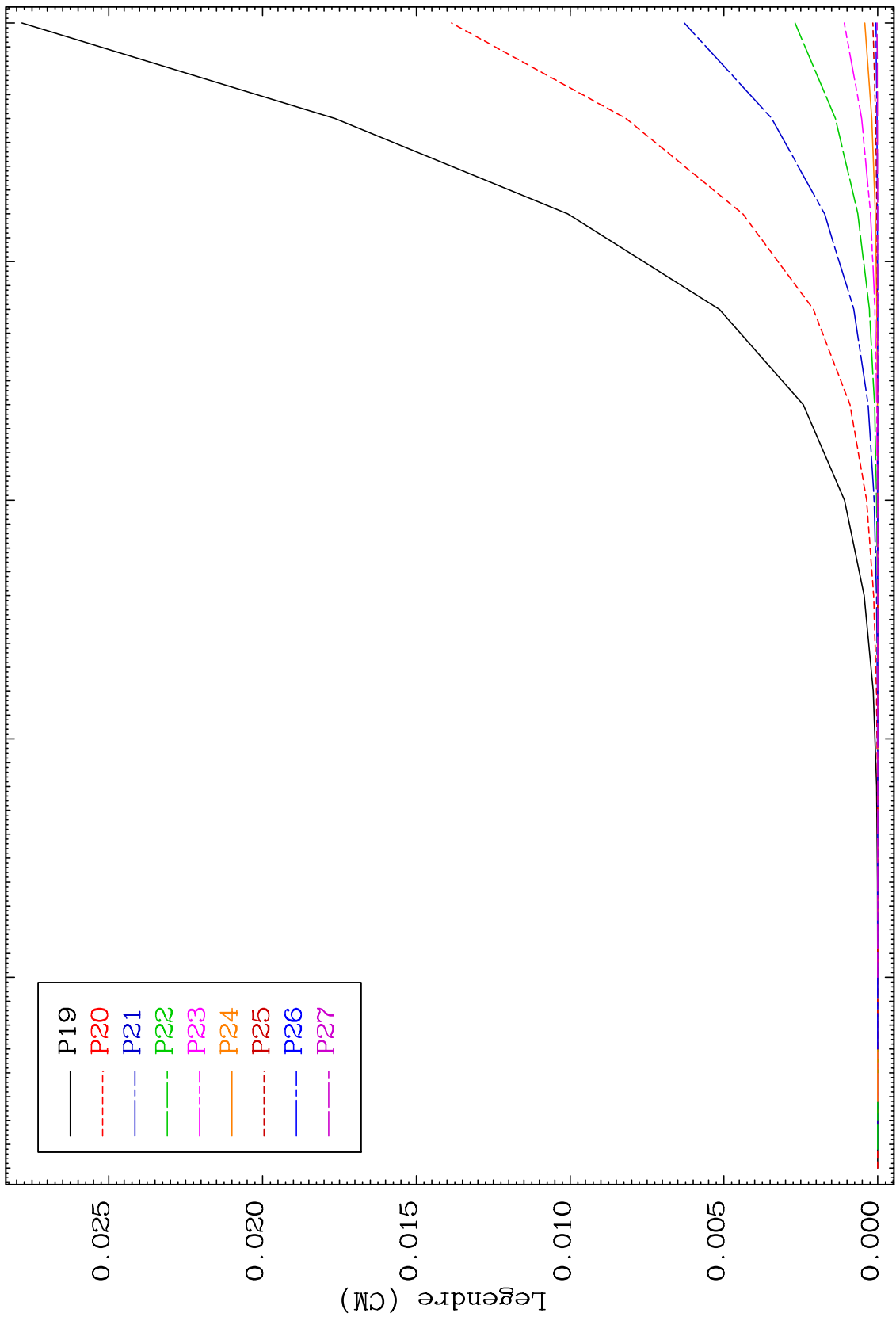




MAT 7516

Elastic Legendre Coefficients

75-Re-182



16

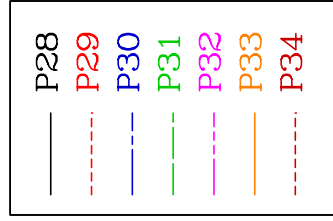
Incident Energy (MeV)

75-Re-182

MAT 7516

Elastic Legendre Coefficients

75-Re-182



$\times 10^{-6}$

Legendre (CM)

6

4

2

0

15

20

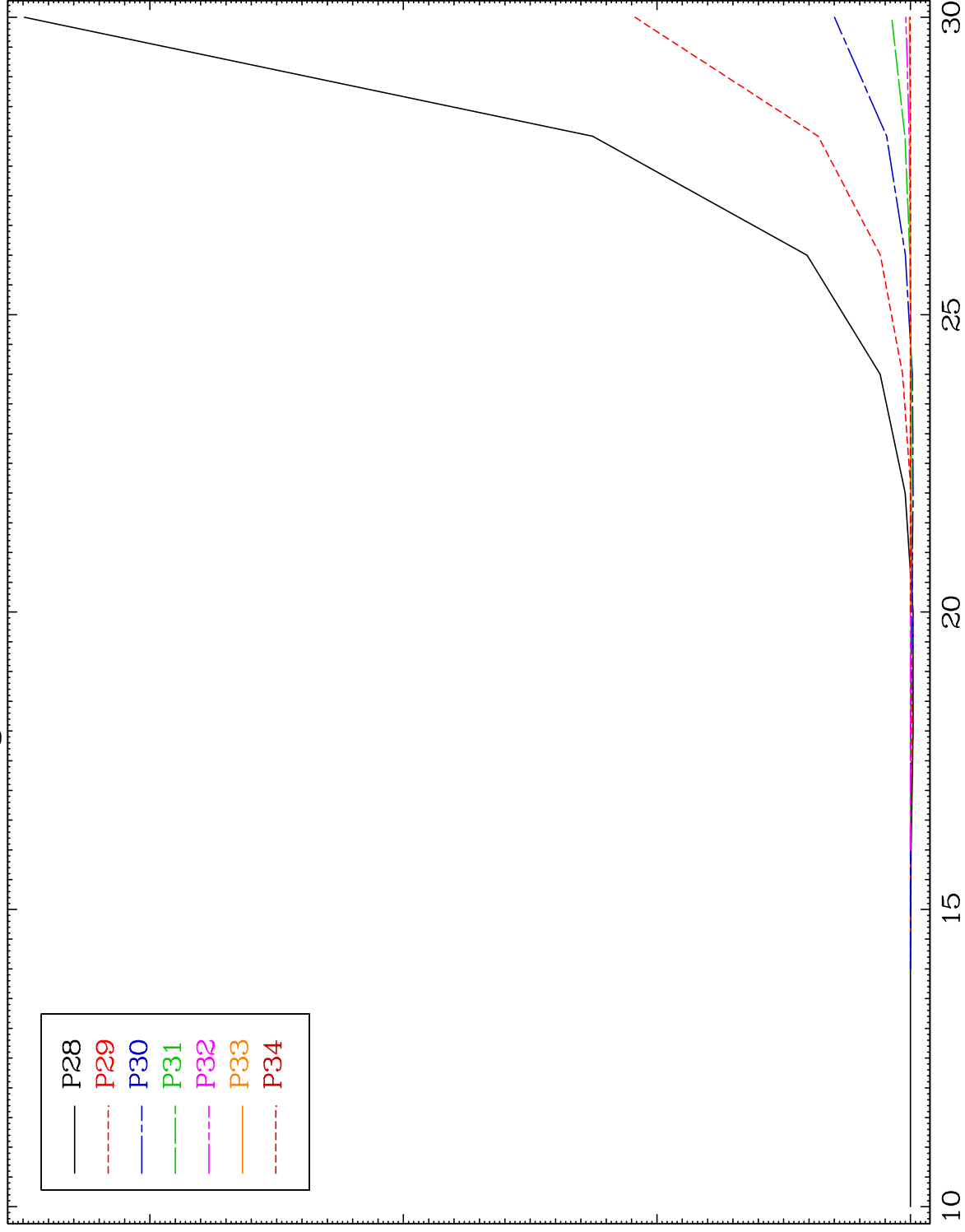
25

30

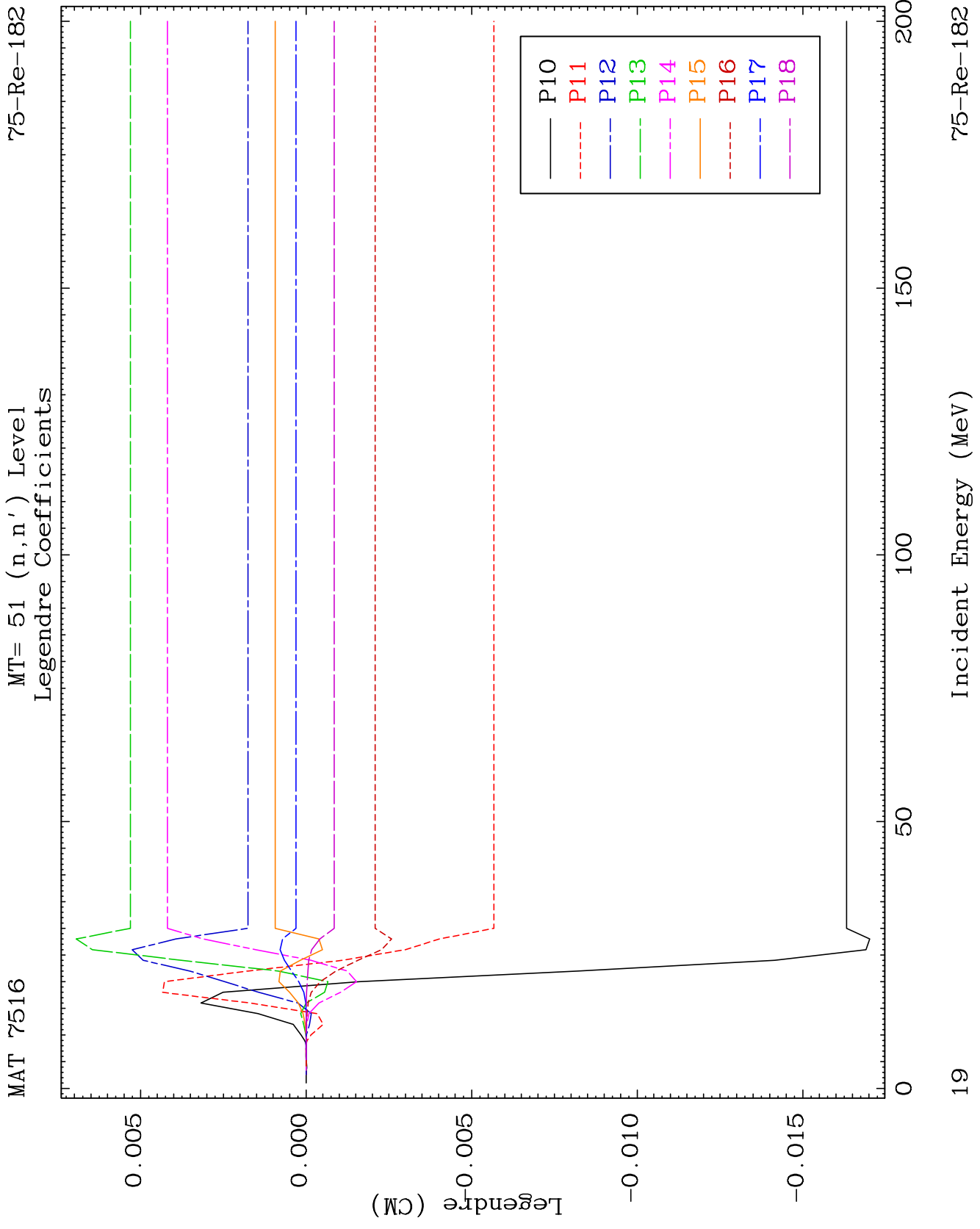
17

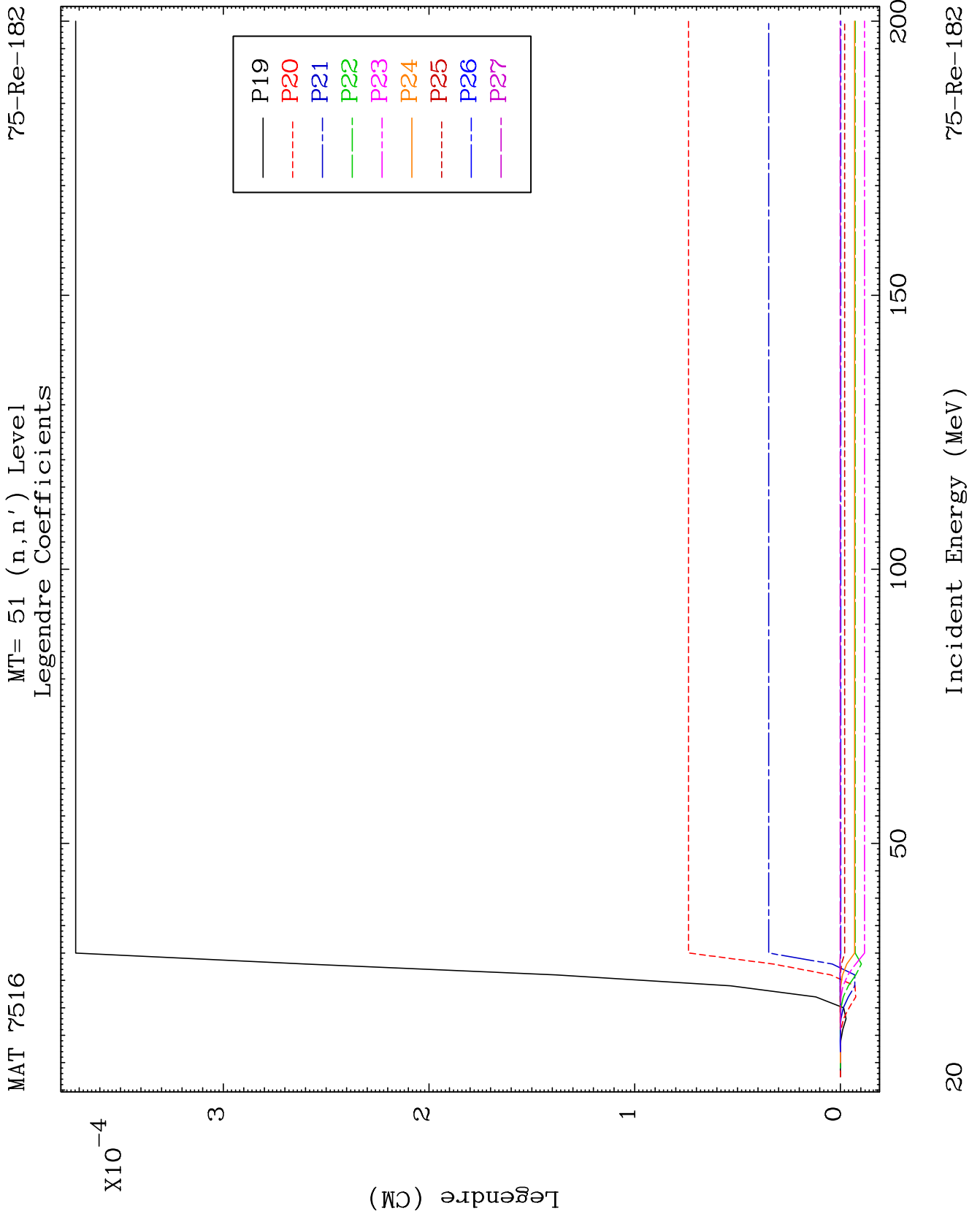
Incident Energy (MeV)

75-Re-182





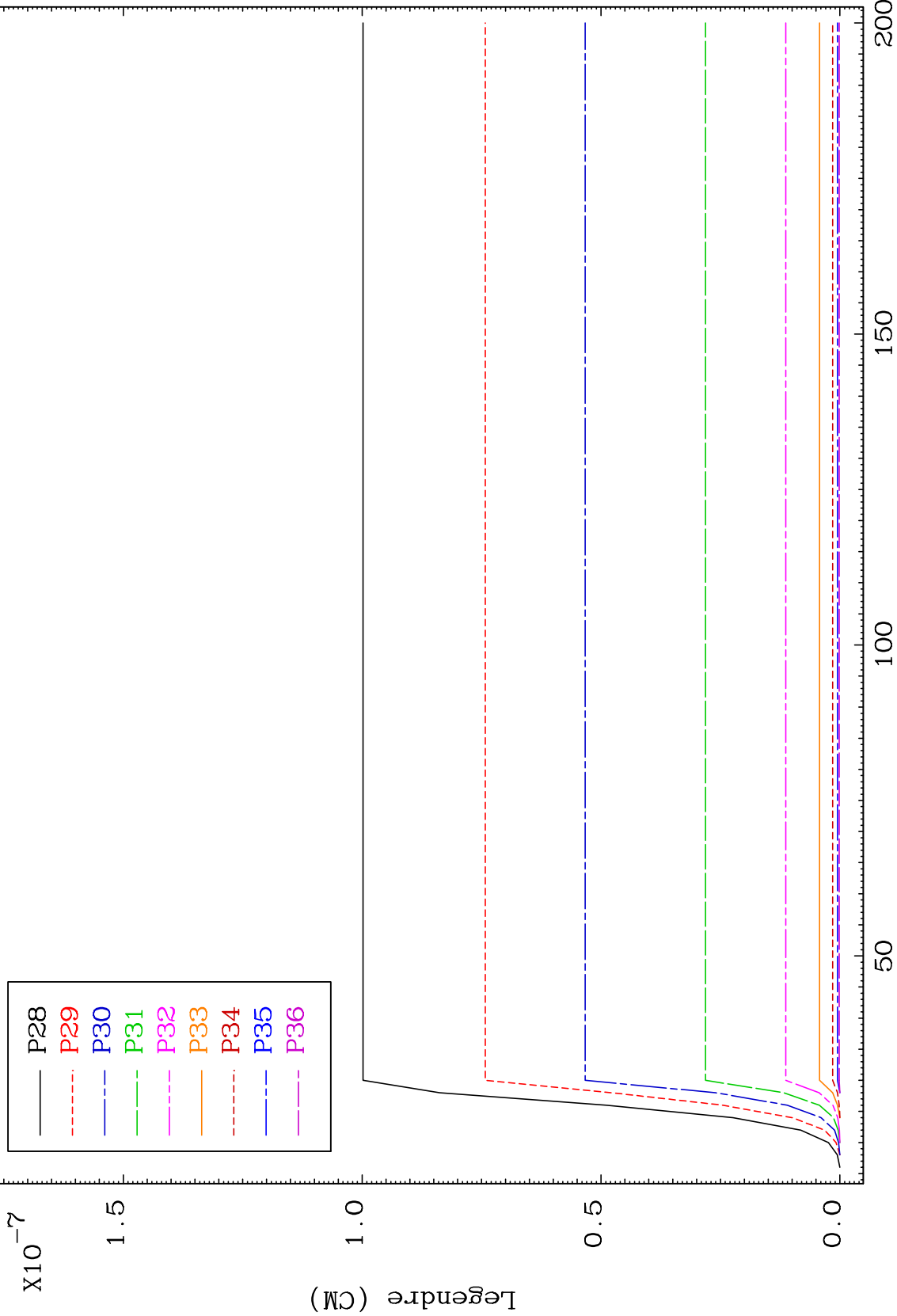
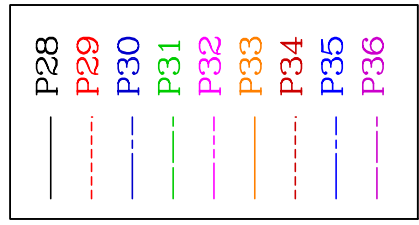




MAT 7516

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

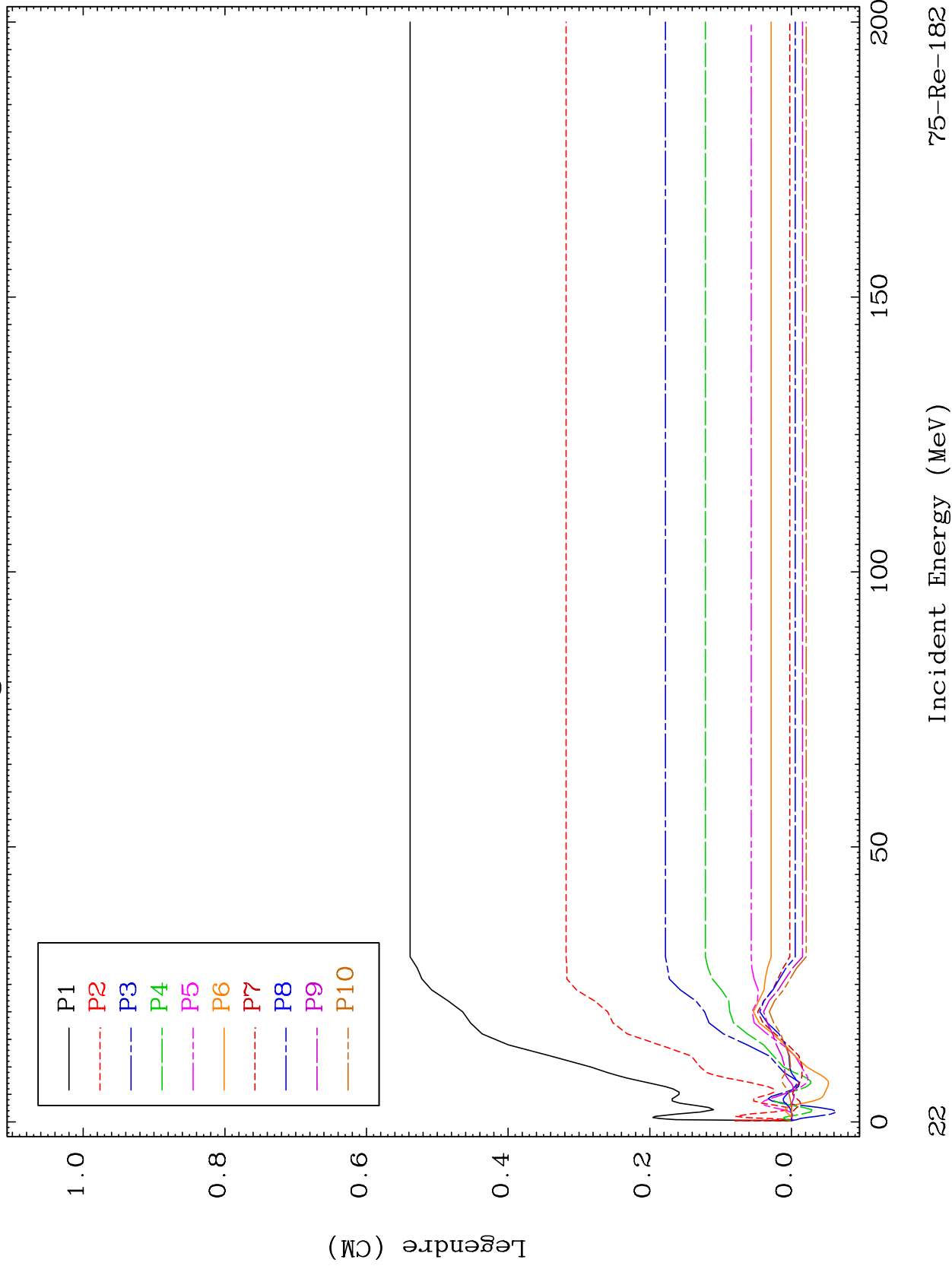
75-Re-182



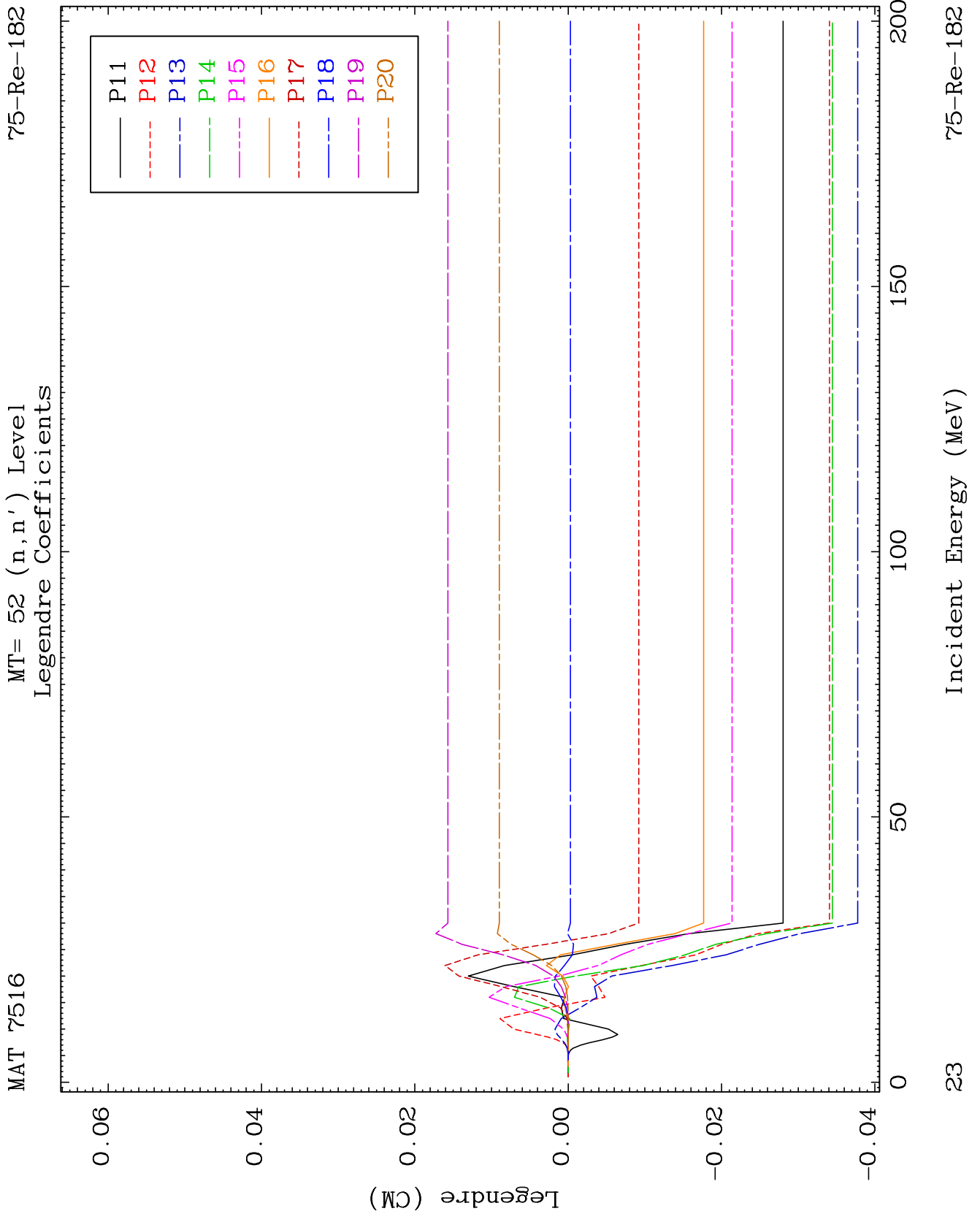
MAT 7516

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

75-Re-182



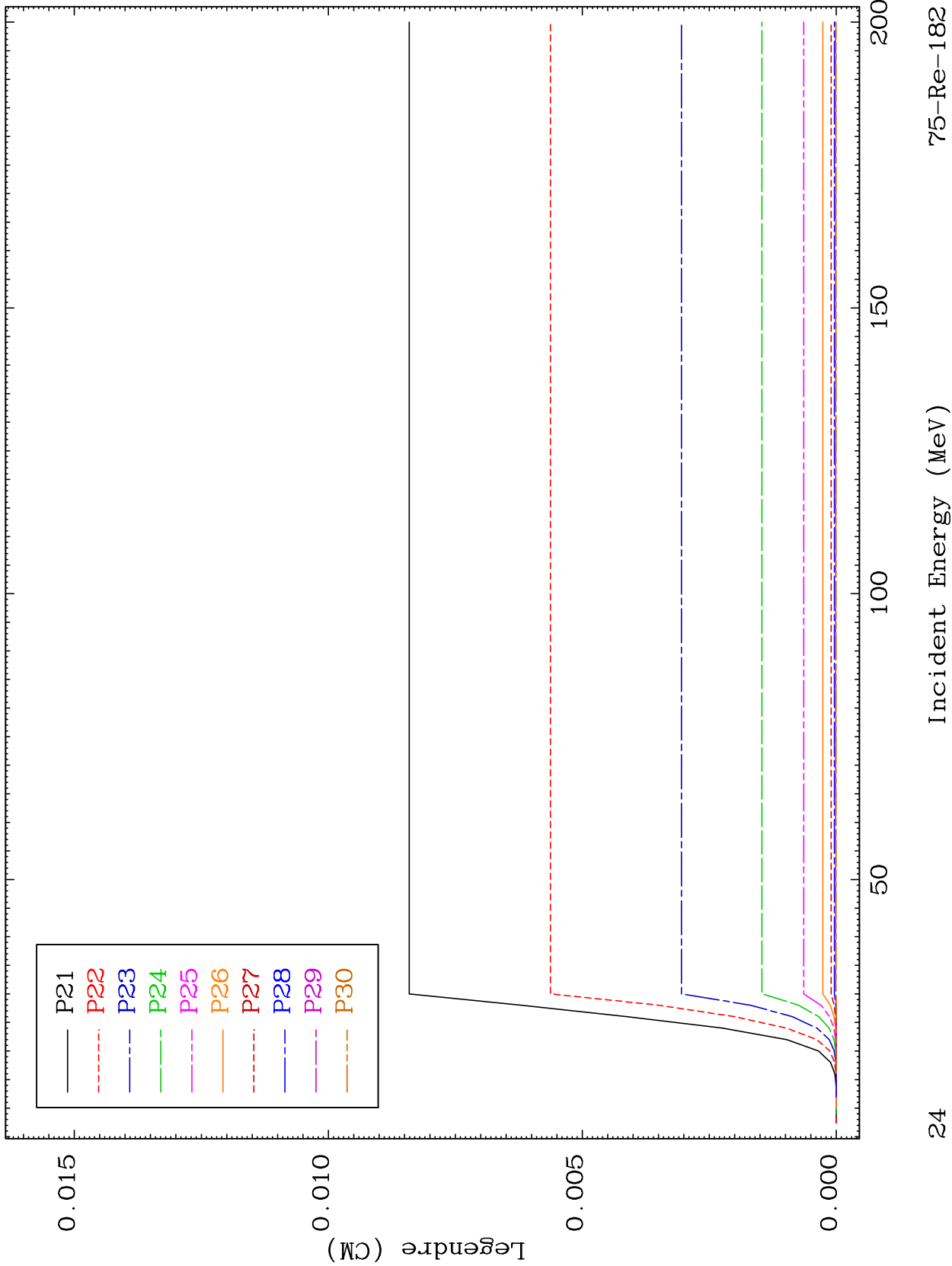
22



MAT 7516

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

75-Re-182

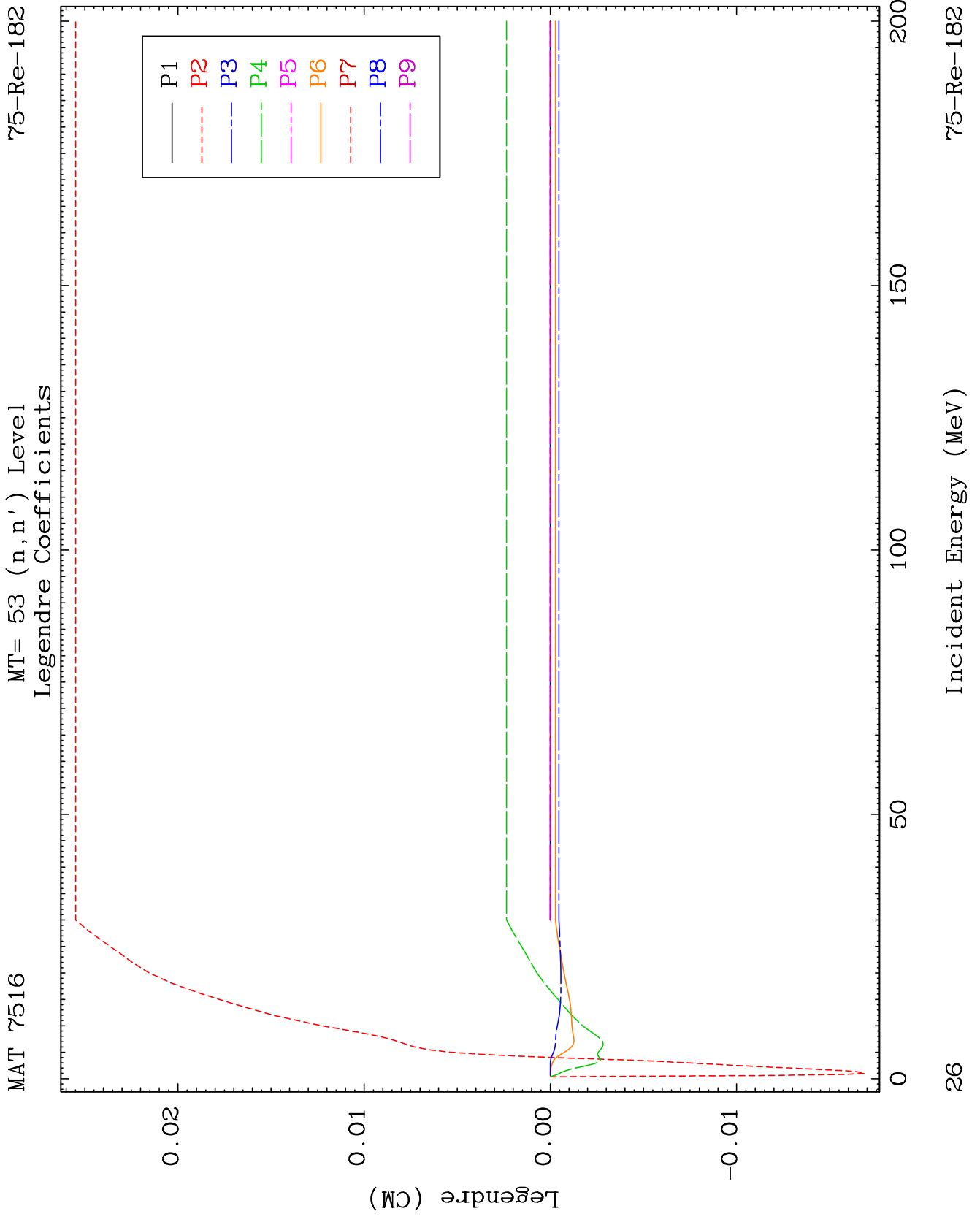


24

Incident Energy (MeV)

75-Re-182

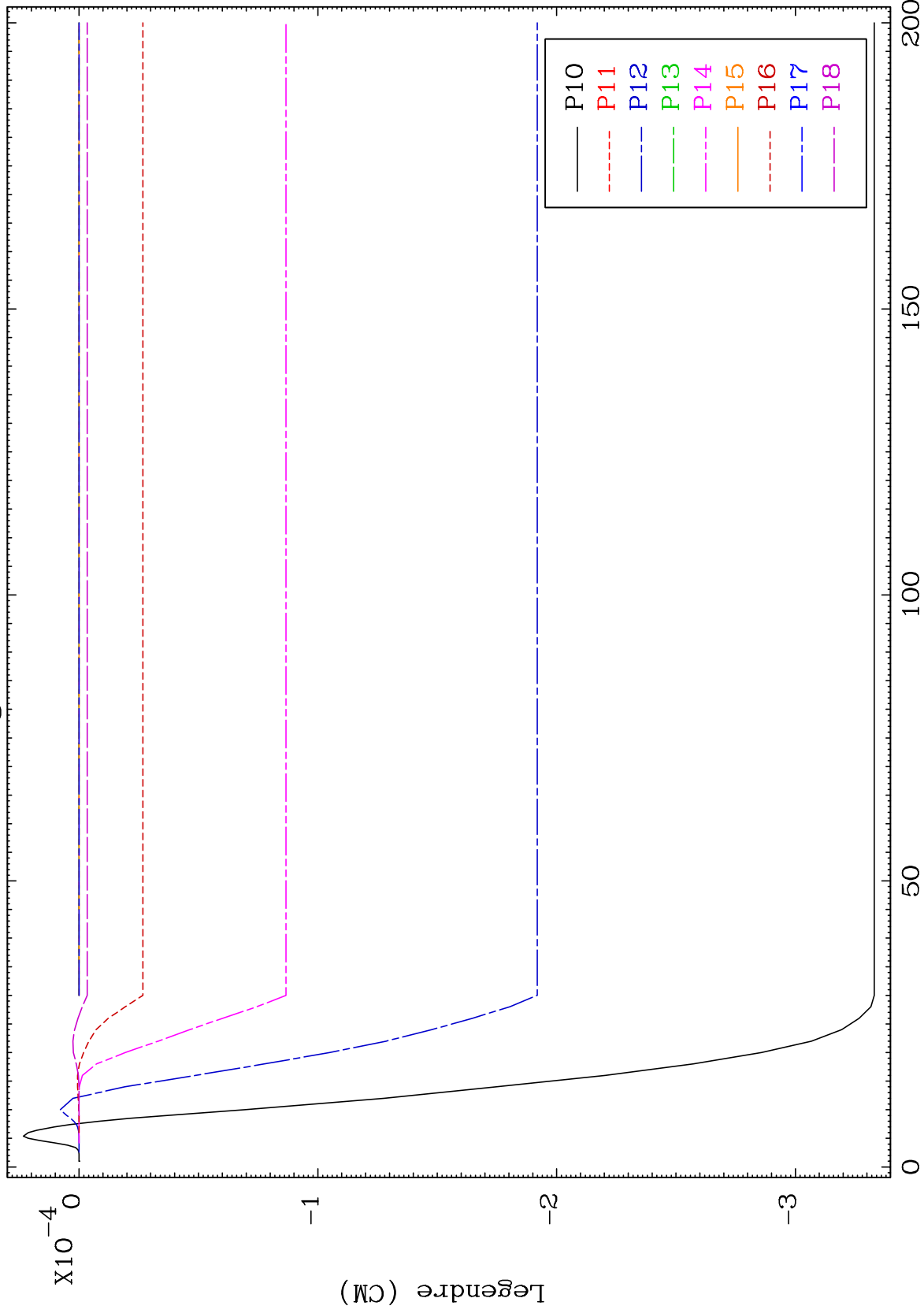




MAT 7516

MT= 53 (n,n') Level  
Legendre Coefficients

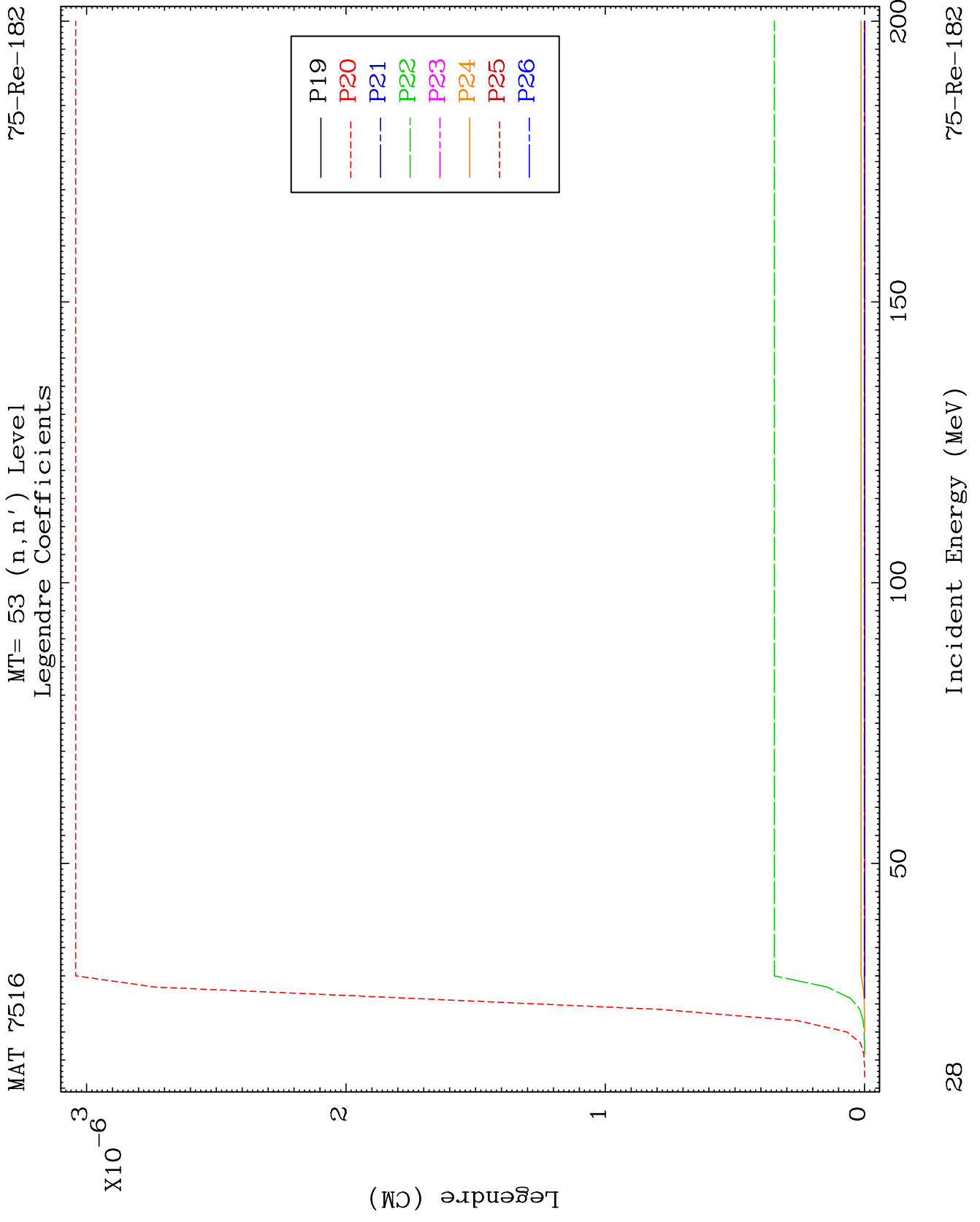
75-Re-182

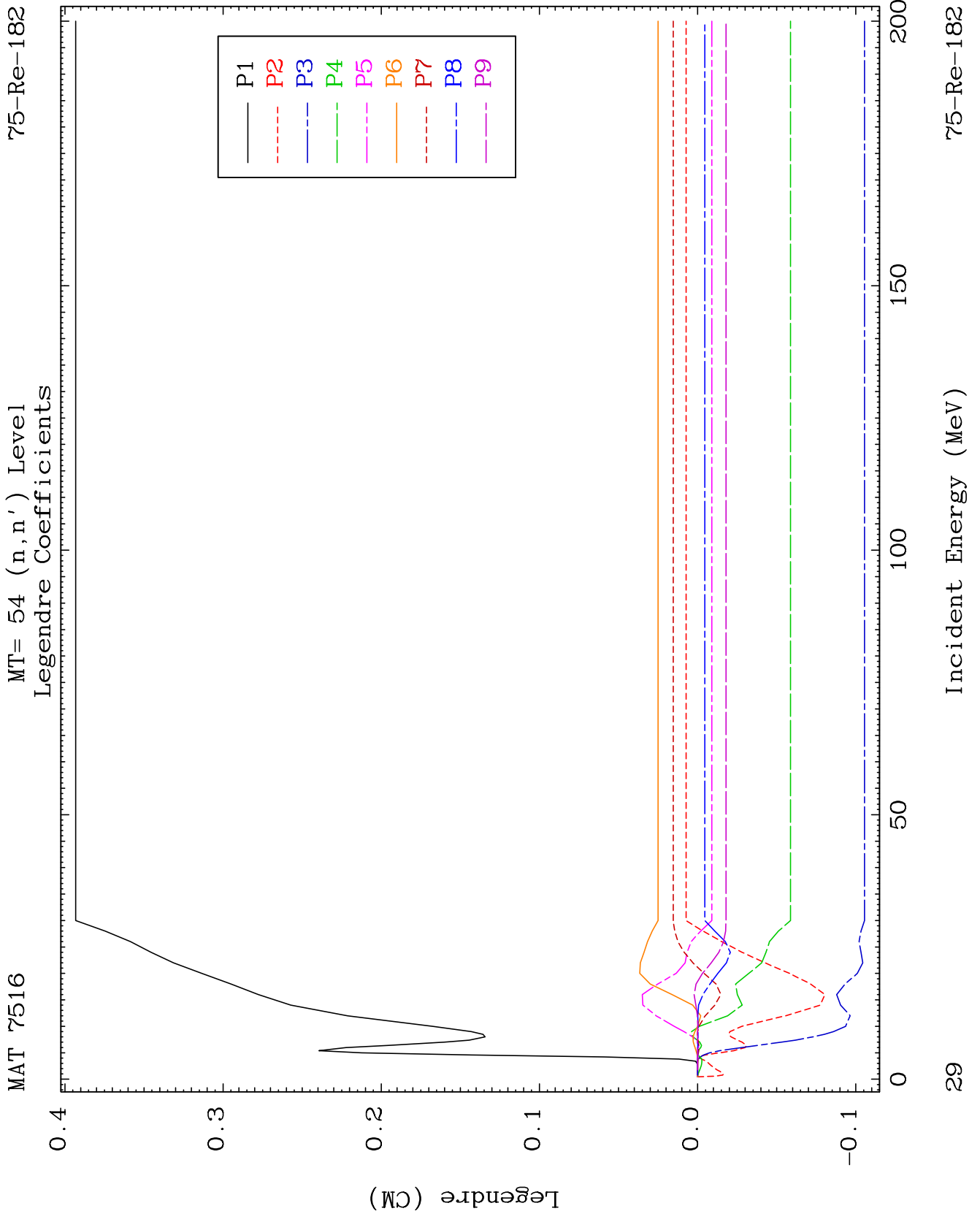


27

Incident Energy (MeV)

75-Re-182



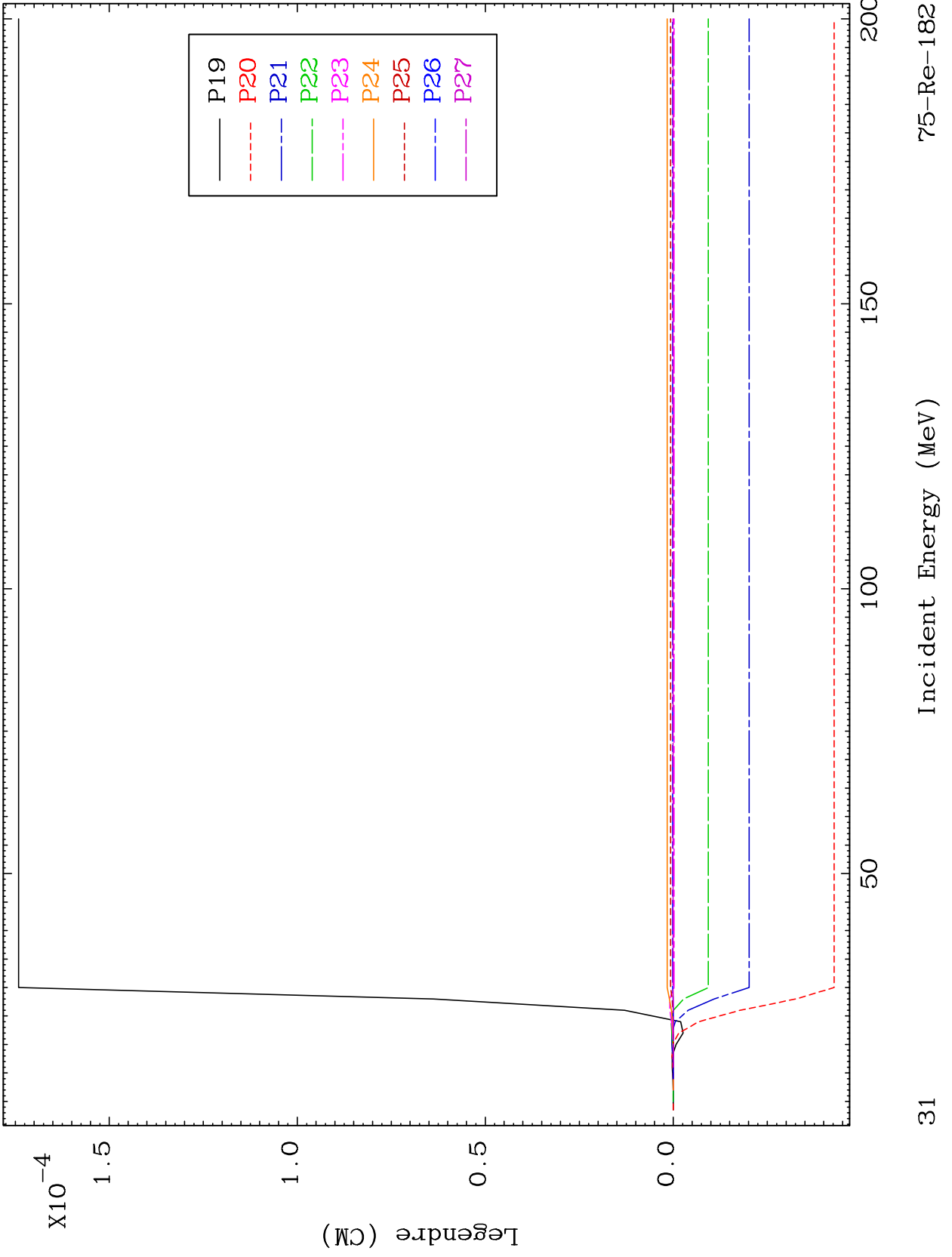




MAT 7516

MT= 54 (n,n') Level  
Legendre Coefficients

75-Re-182



31

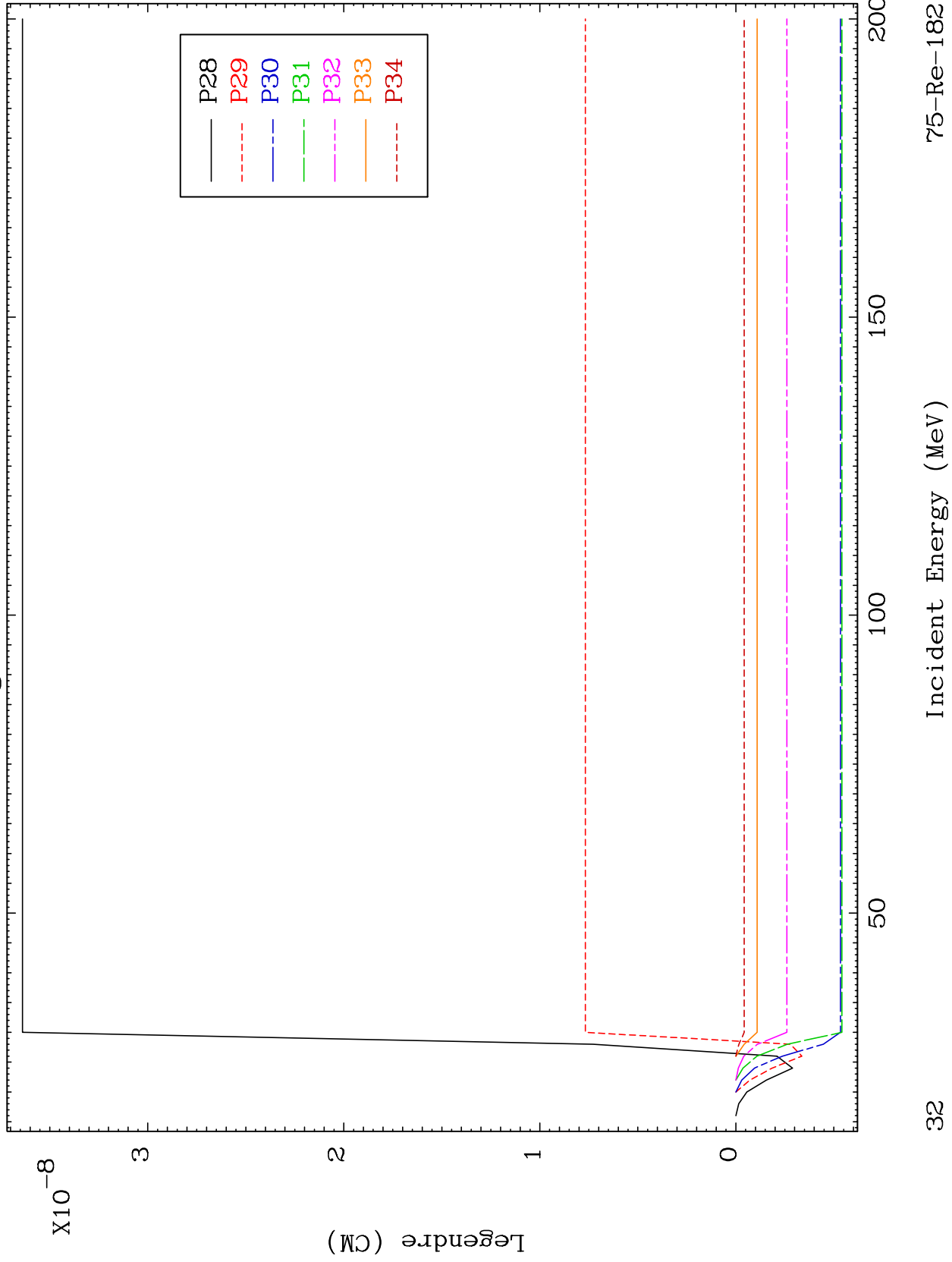
Incident Energy (MeV)

75-Re-182

MAT 7516

MT= 54 (n,n') Level  
Legendre Coefficients

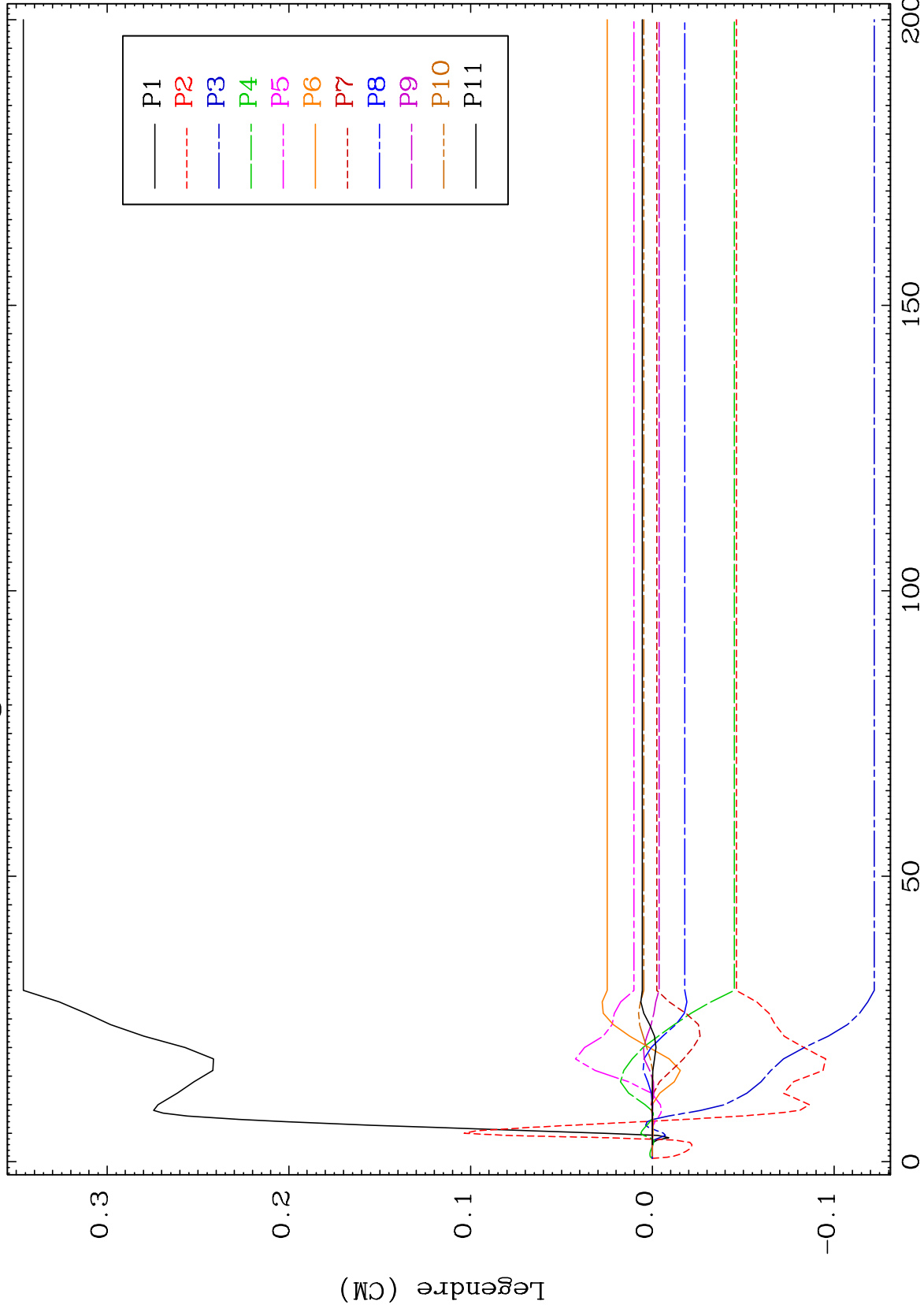
75-Re-182



MAT 7516

MT= 55 (n,n') Level  
Legendre Coefficients

75-Re-182



33

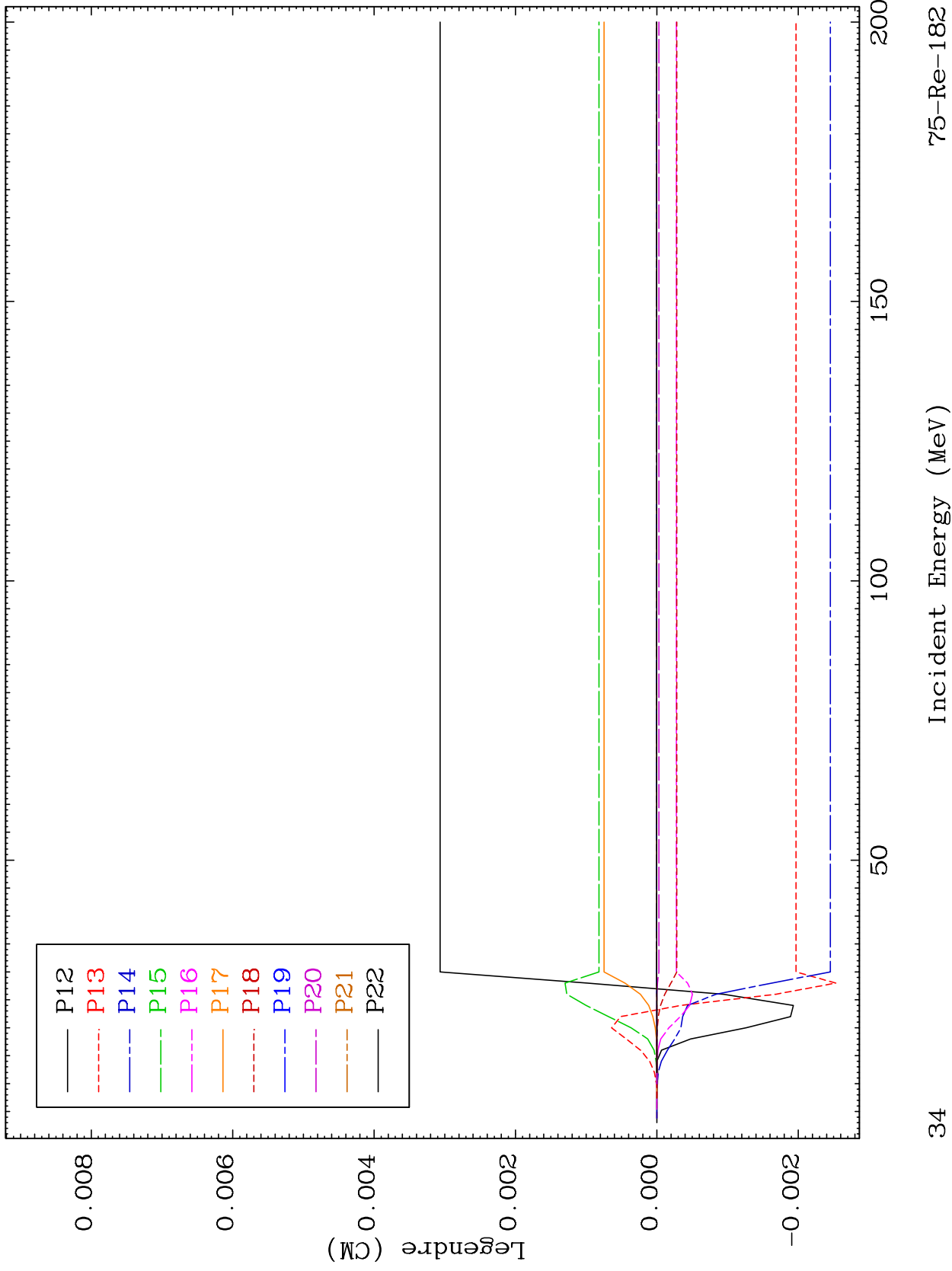
Incident Energy (MeV)

75-Re-182

MAT 7516

MT= 55 (n,n') Level  
Legendre Coefficients

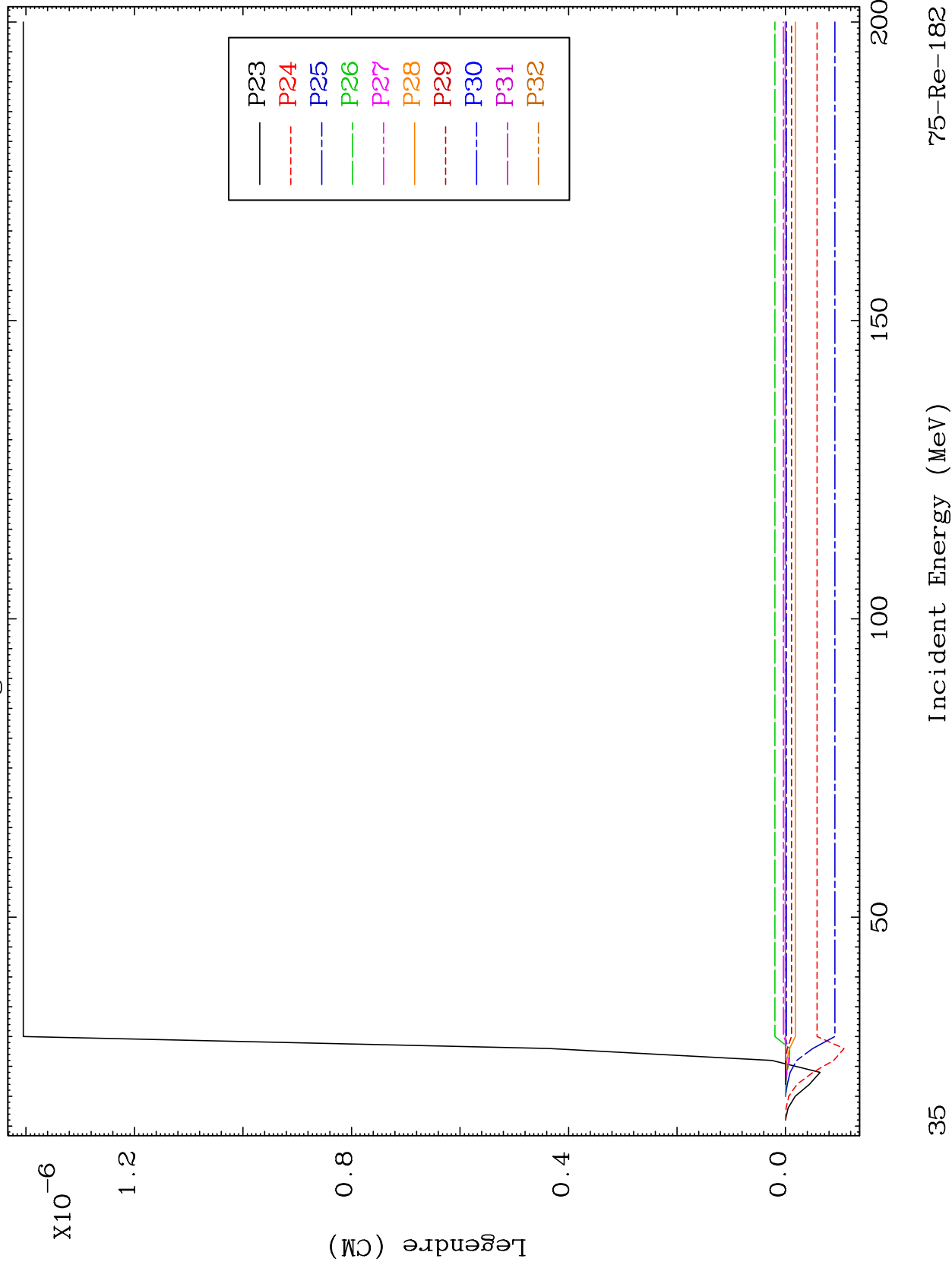
75-Re-182



MAT 7516

MT= 55 (n,n') Level  
Legendre Coefficients

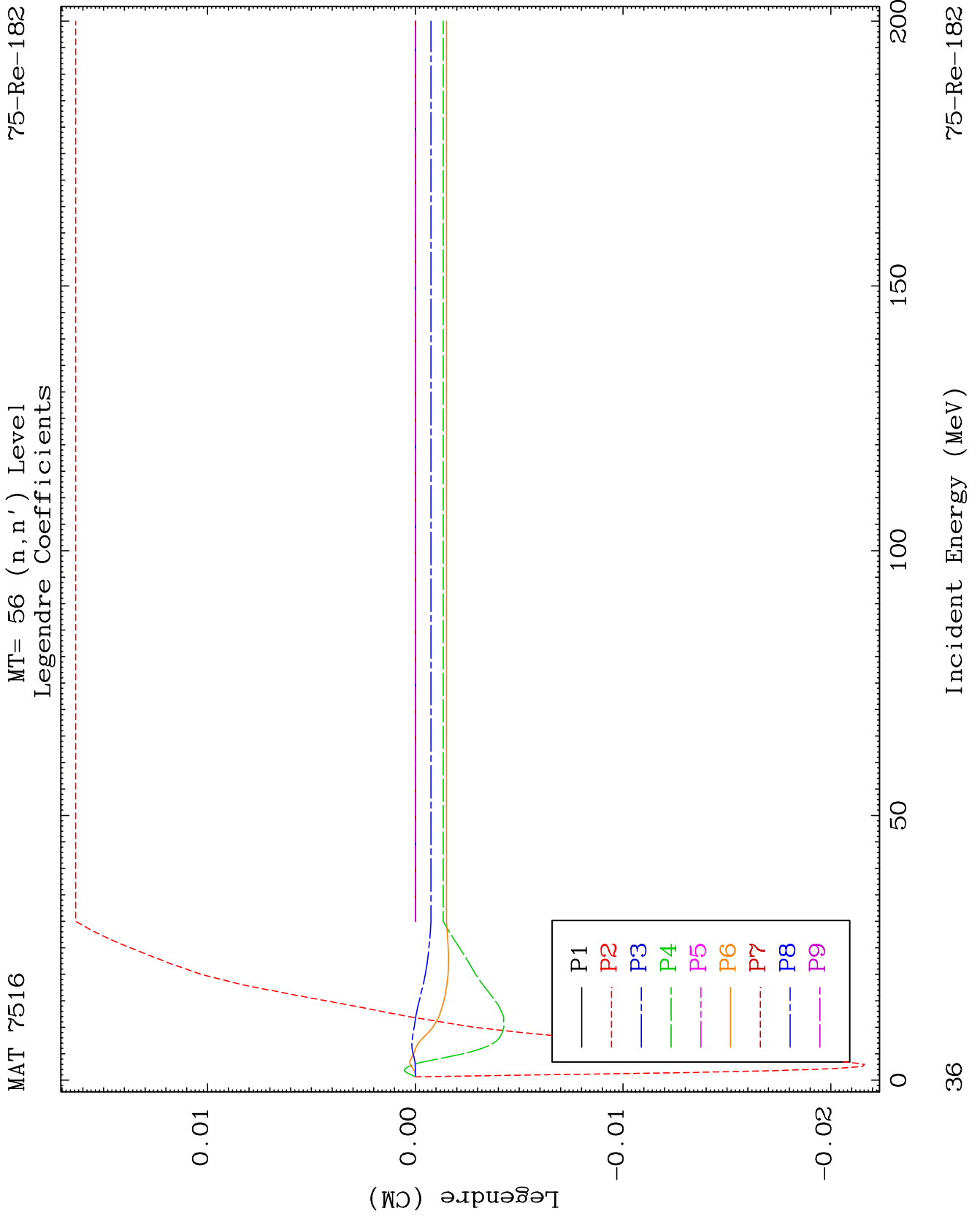
75-Re-182



75-Re-182

Incident Energy (MeV)

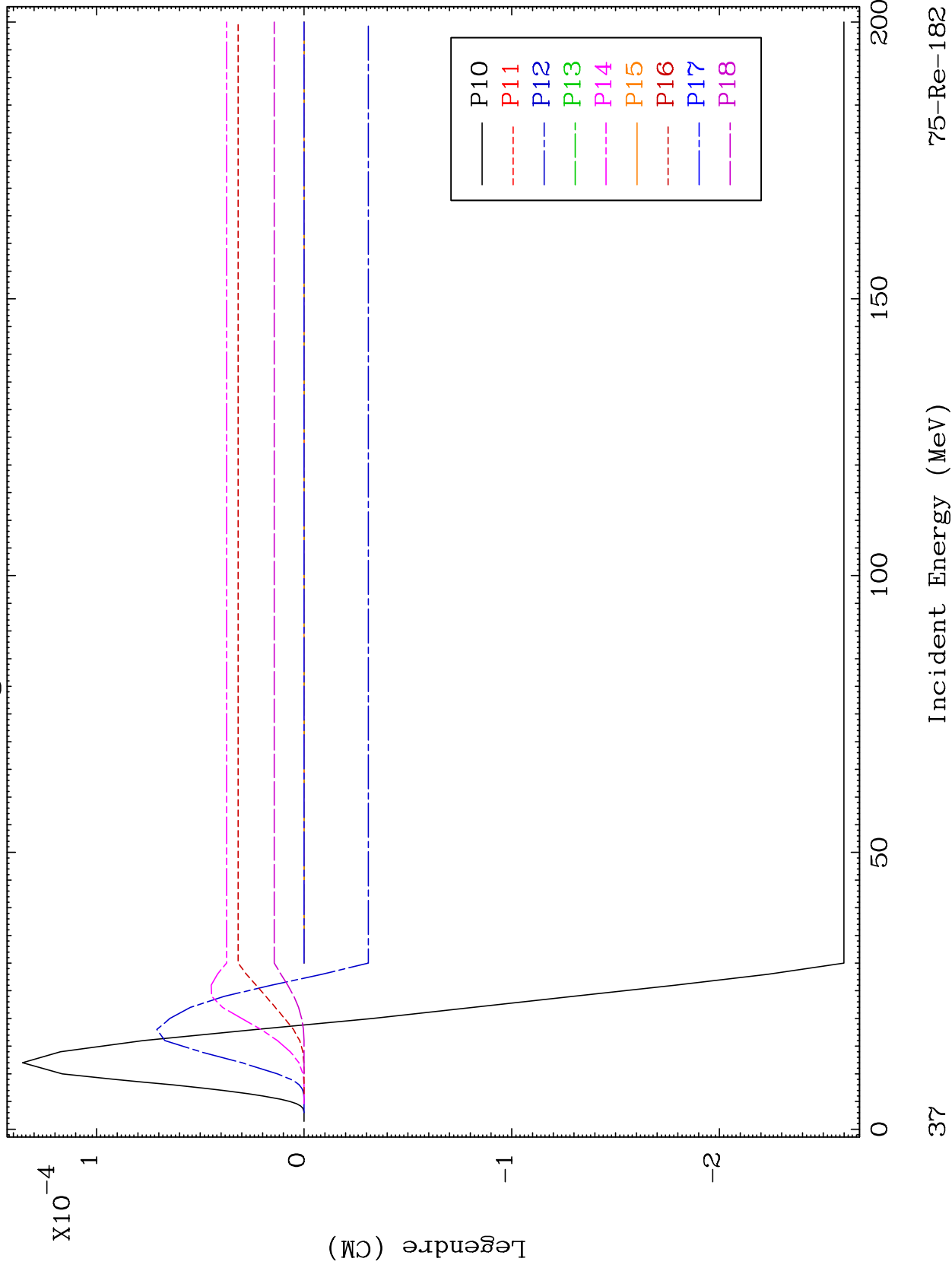
35

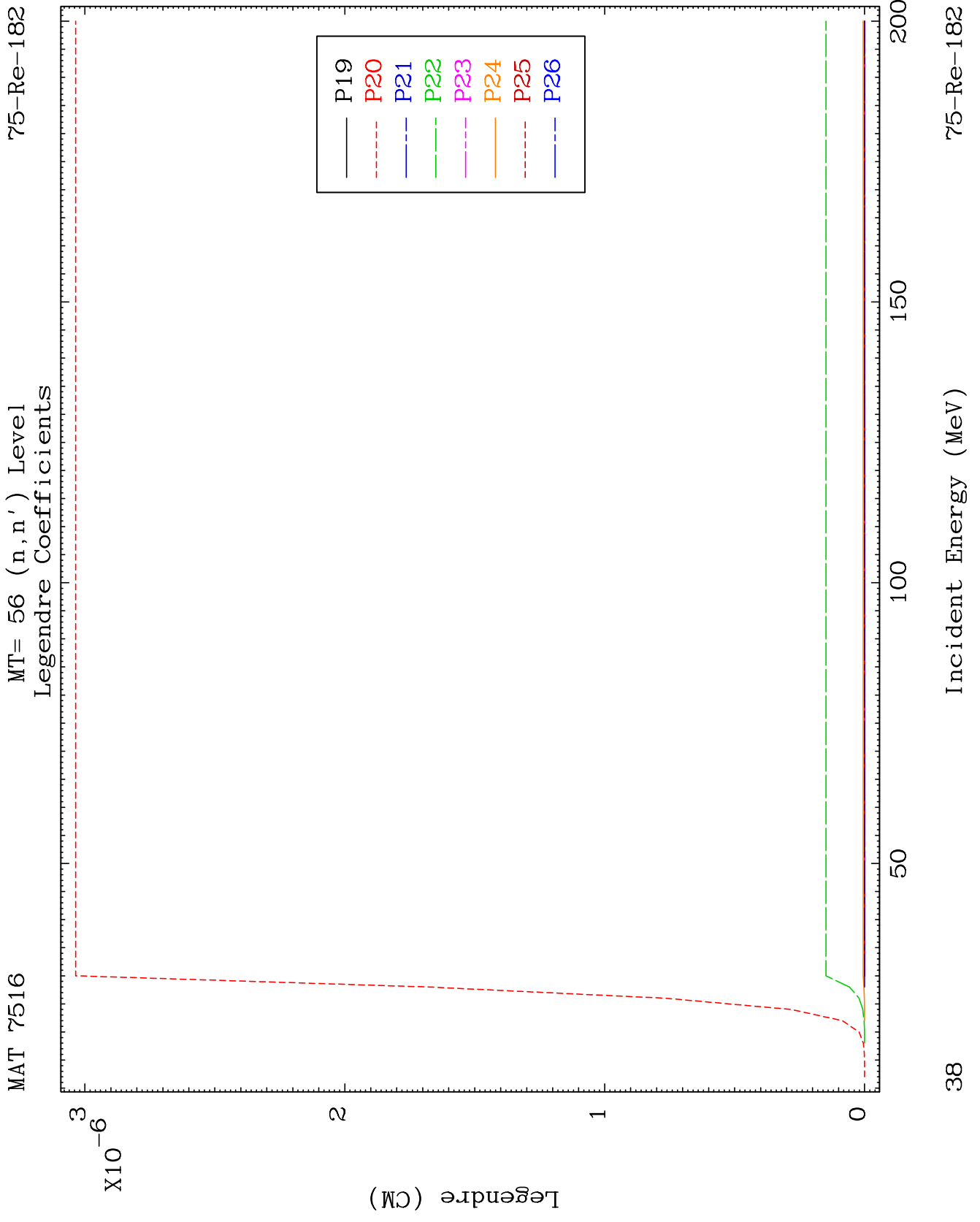


MAT 7516

MT= 56 (n,n') Level  
Legendre Coefficients

75-Re-182



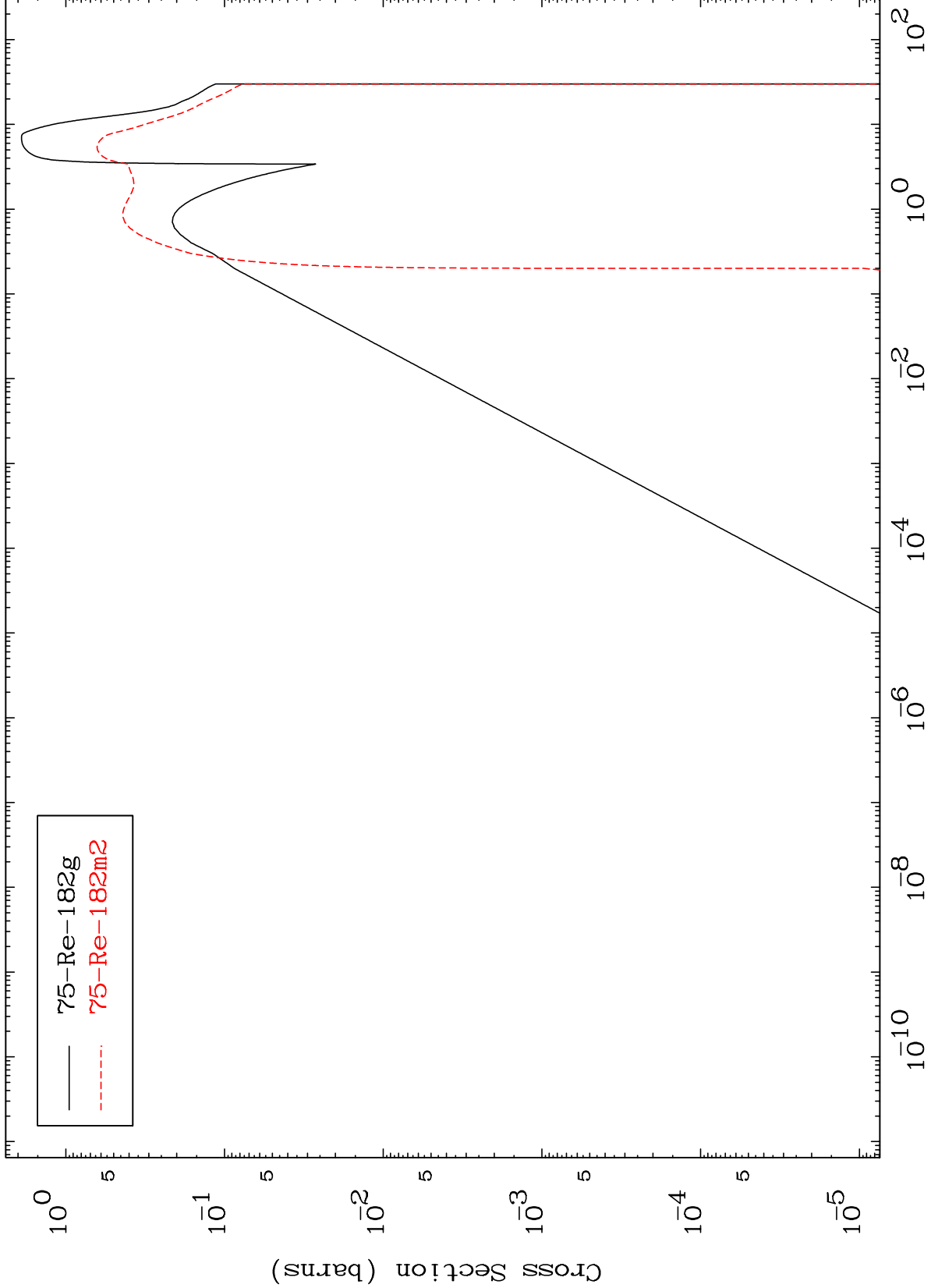


MAT 7516

Inelastic

75-Re-182

Radionuclide Production Cross Section



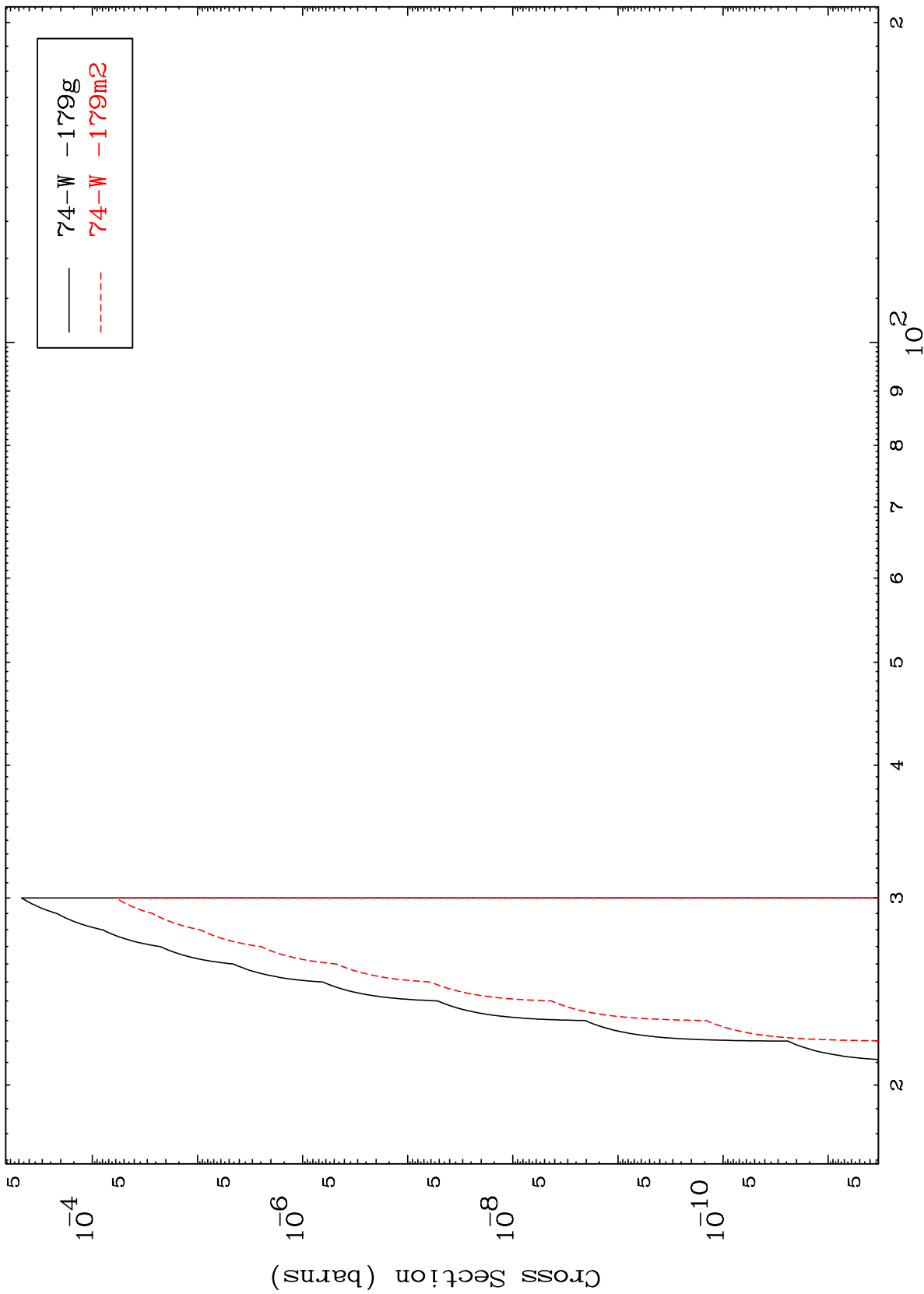
75-Re-182g  
75-Re-182m2

MAT 7516

(n,2n) d

75-Re-182

Radionuclide Production Cross Section



40

Incident Energy (MeV)

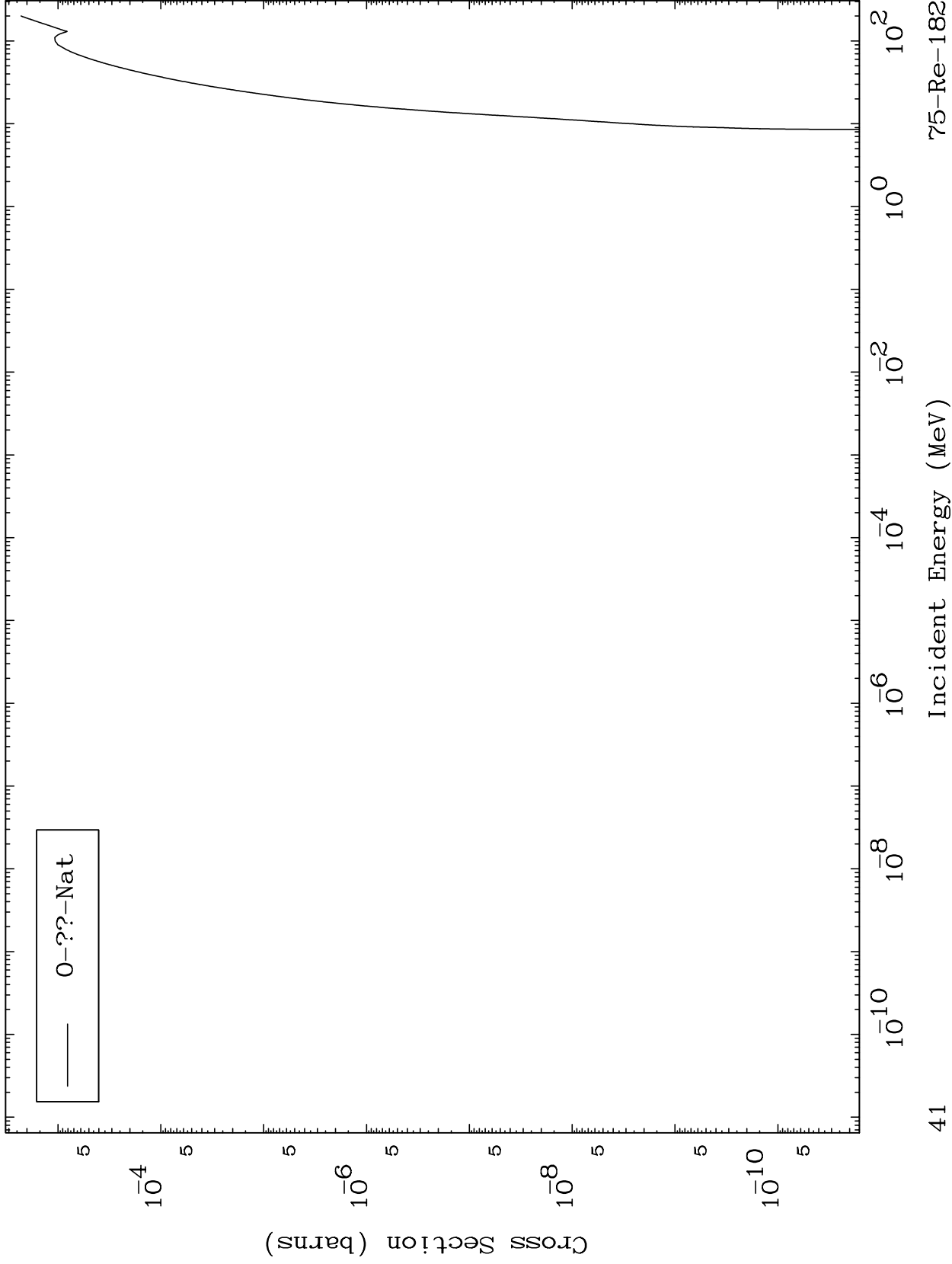
75-Re-182

MAT 7516

Fission

75-Re-182

Radionuclide Production Cross Section

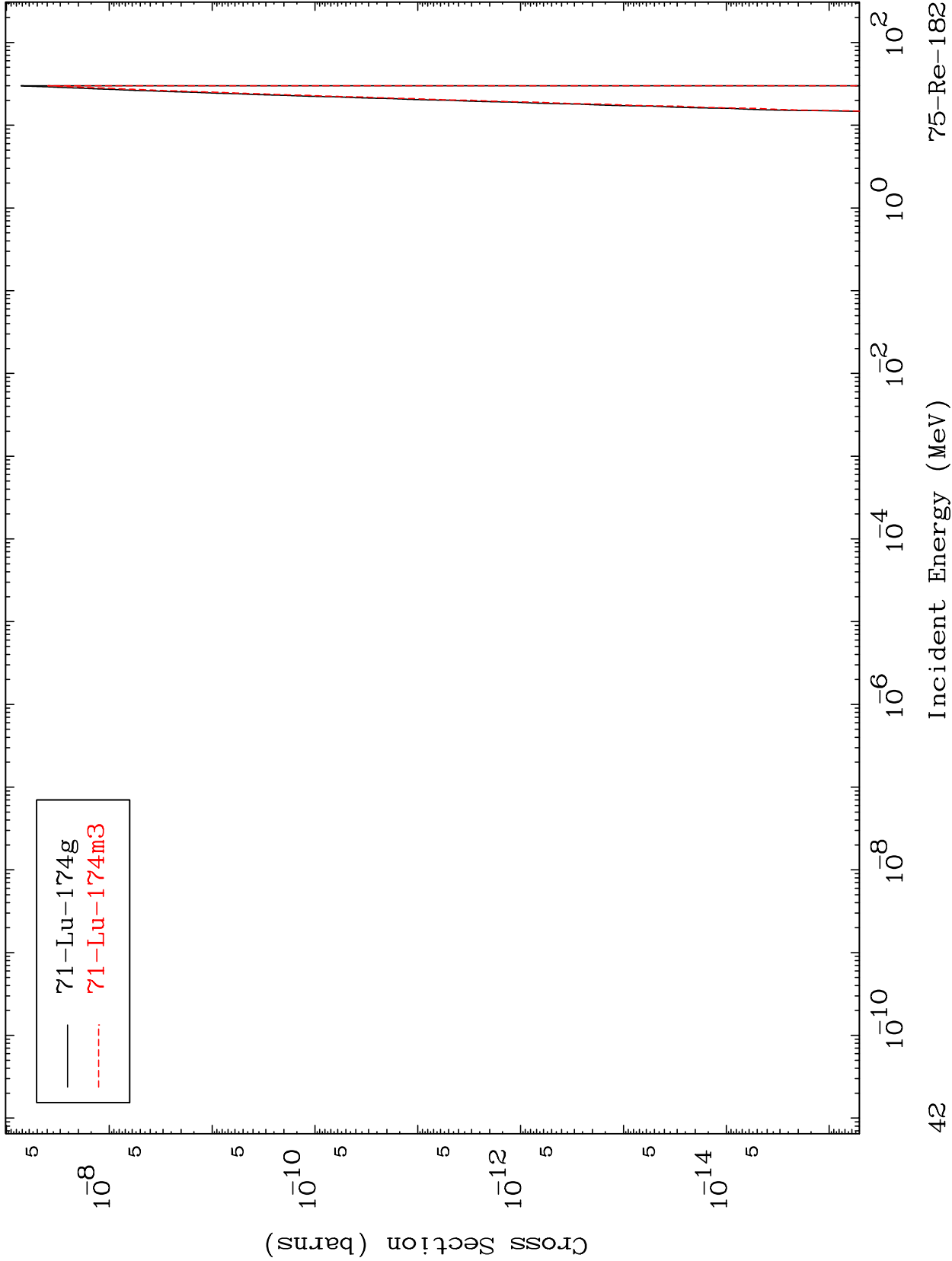


MAT 7516

(n,n') 2α

75-Re-182

Radionuclide Production Cross Section



42

Incident Energy (MeV)

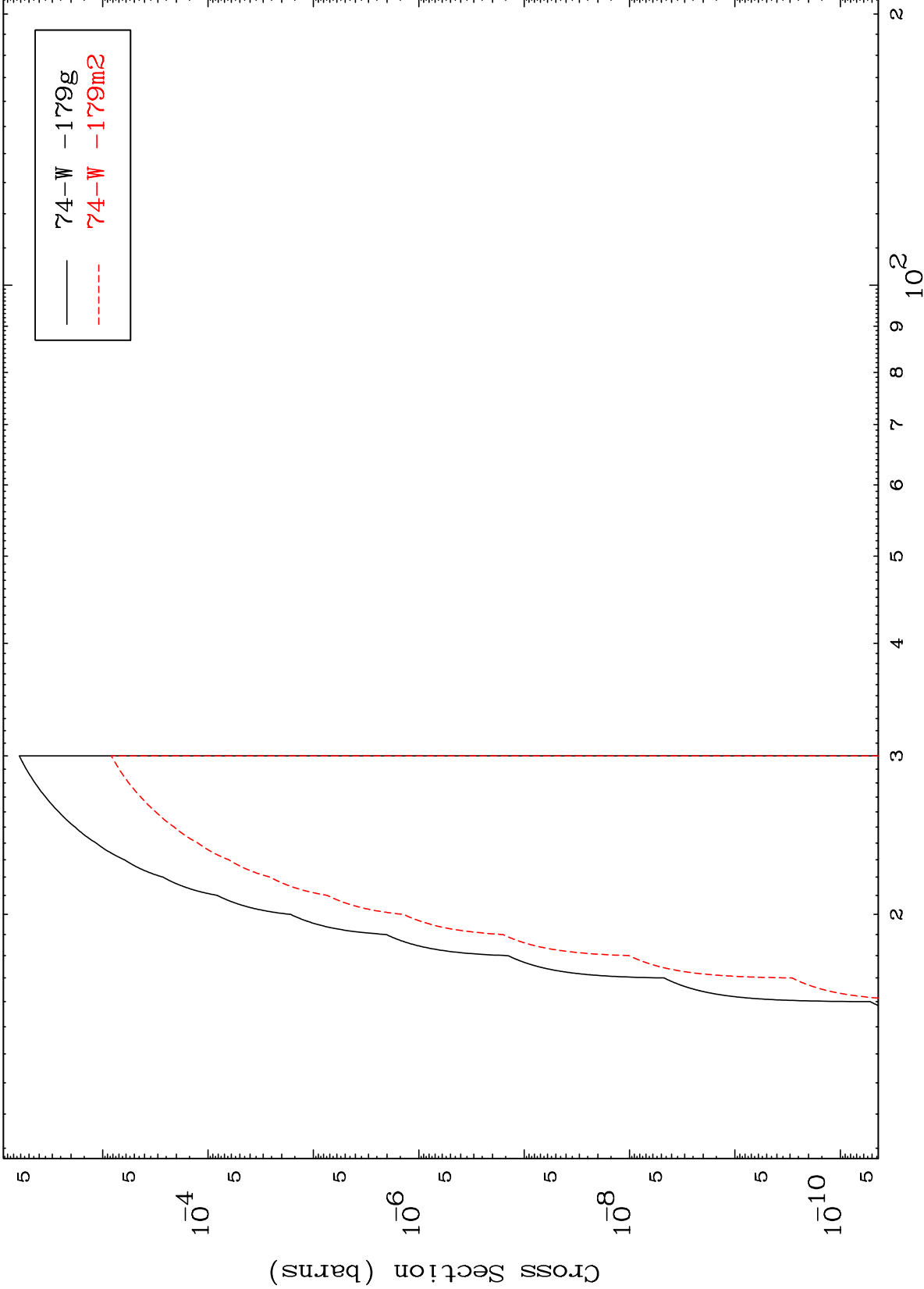
75-Re-182

MAT 7516

(n,n') t

75-Re-182

Radionuclide Production Cross Section



43

Incident Energy (MeV)

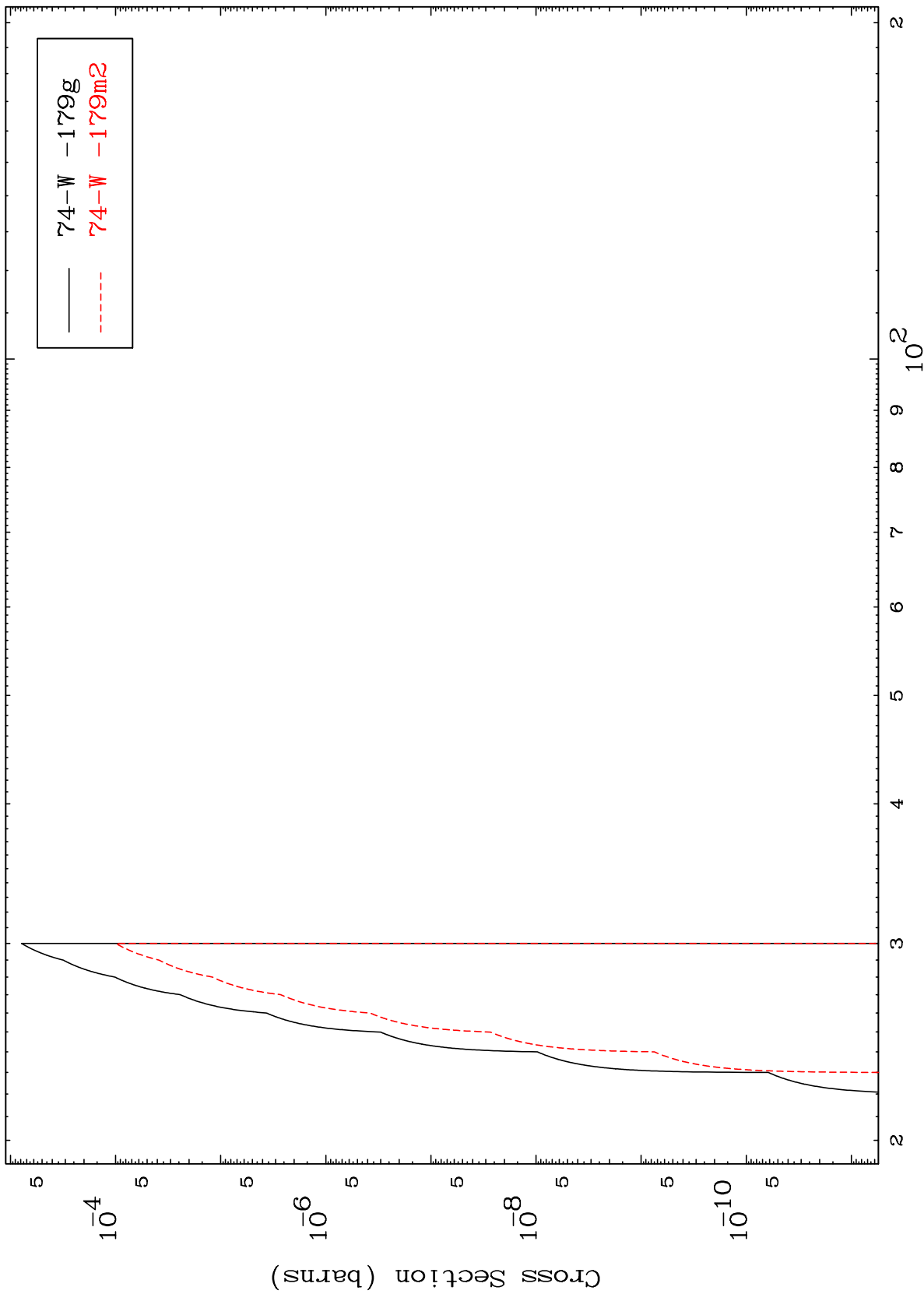
75-Re-182

MAT 7516

(n,3n) p

75-Re-182

Radionuclide Production Cross Section



44

Incident Energy (MeV)

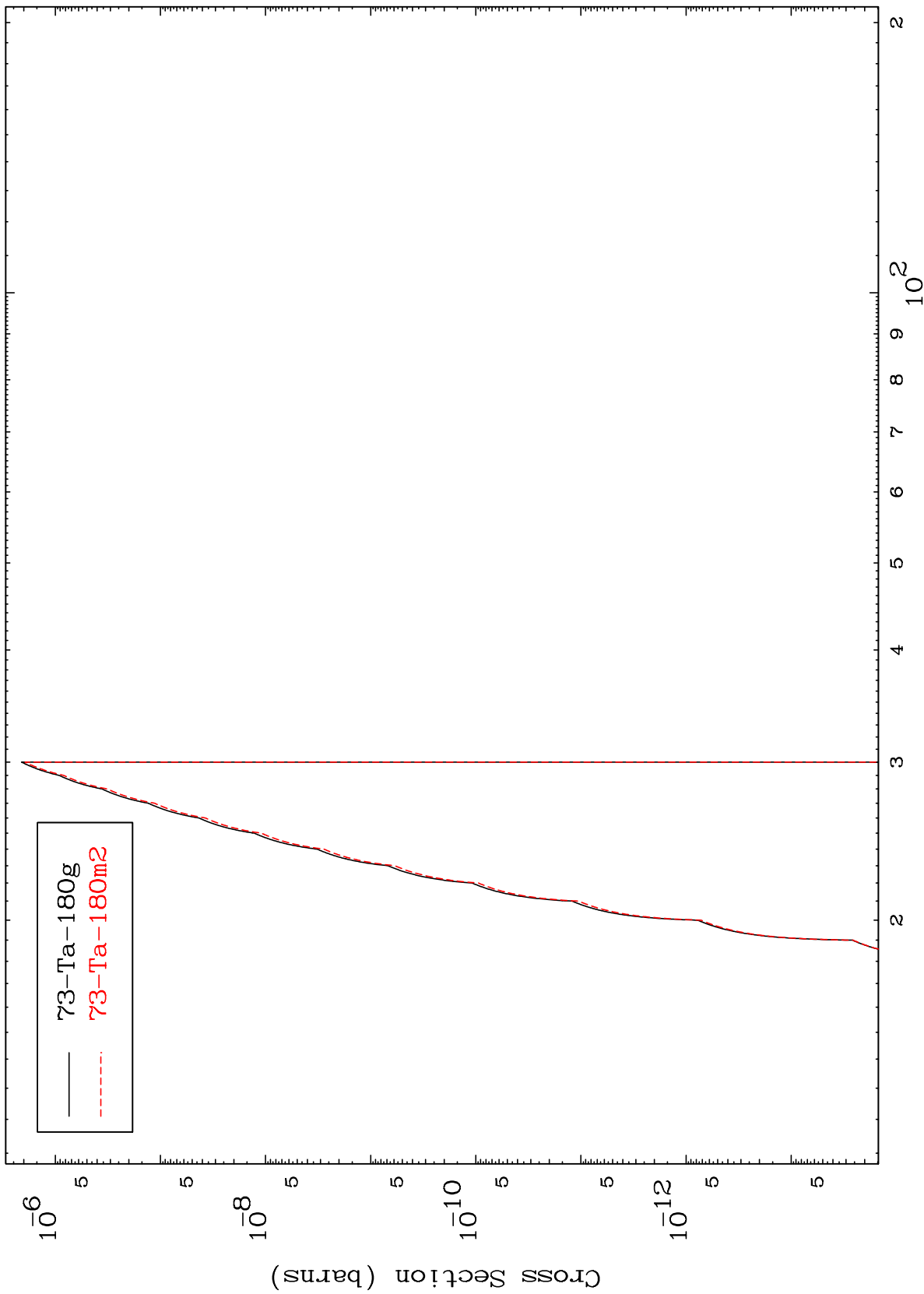
75-Re-182

MAT 75116

(n,2n) p

75-Re-182

Radionuclide Production Cross Section



45

Incident Energy (MeV)

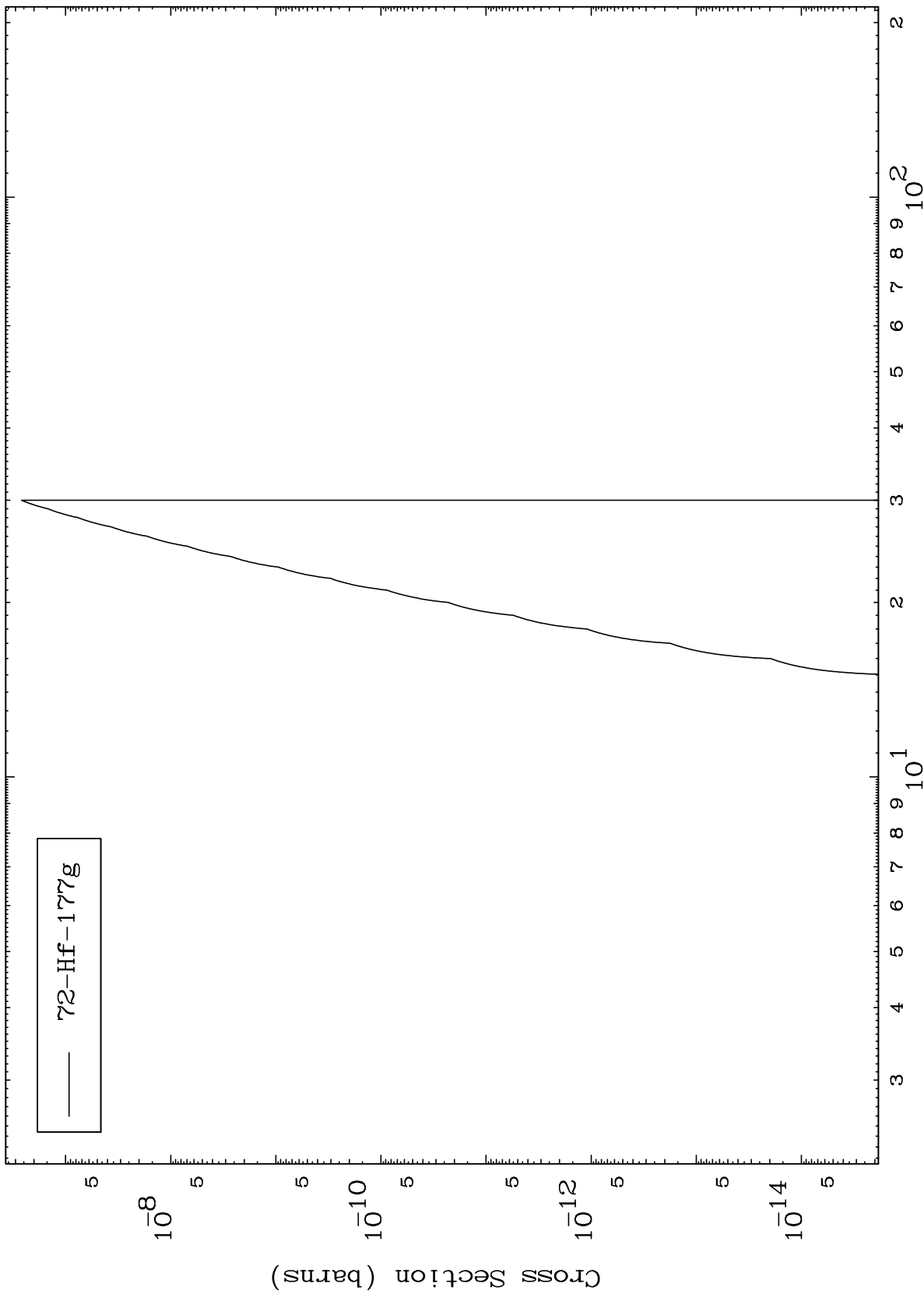
75-Re-182

MAT 7516

(n,n') p  $\alpha$

75-Re-182

Radionuclide Production Cross Section

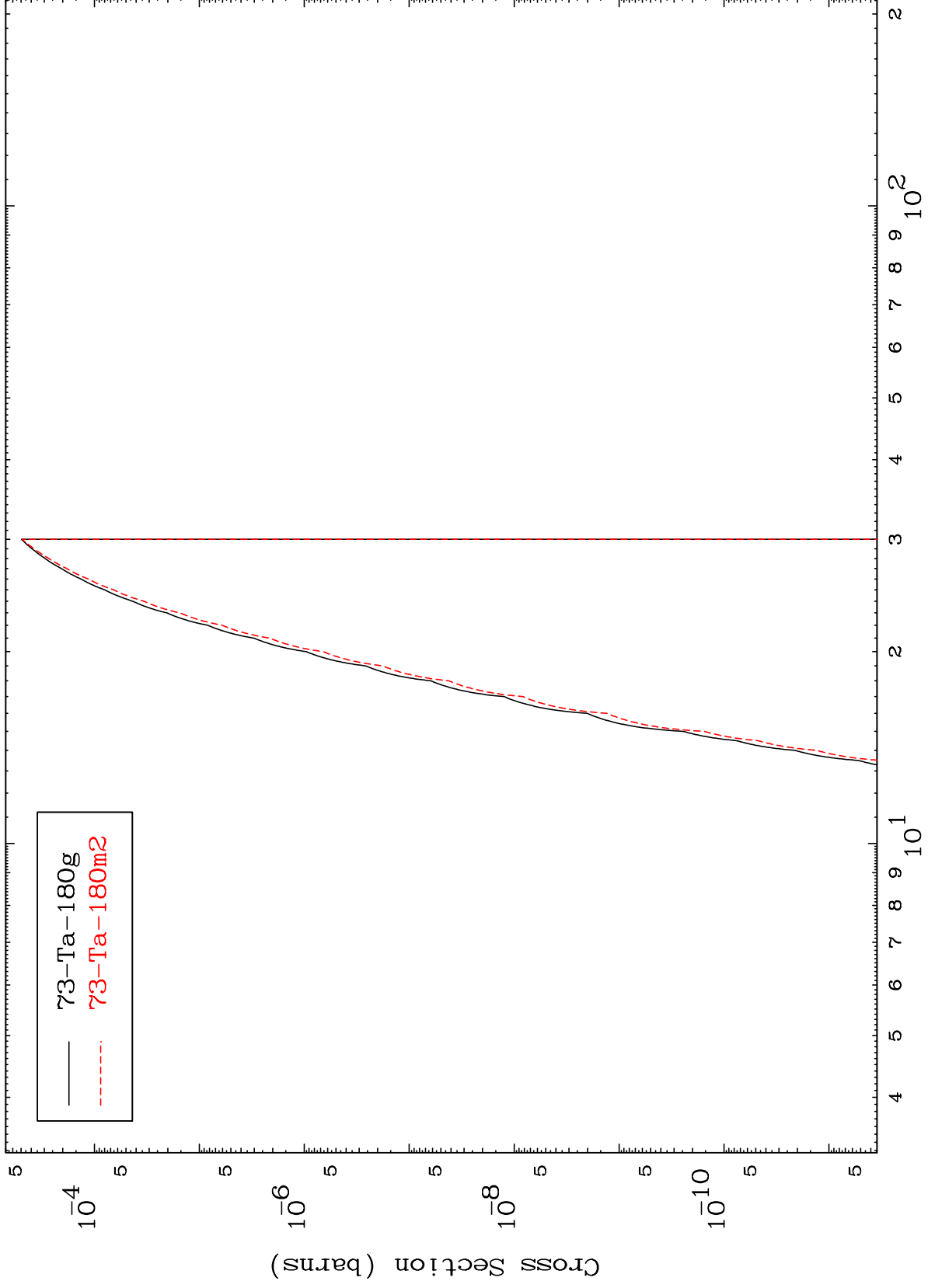


MAT 7516

(n,He-3)

75-Re-182

Radionuclide Production Cross Section



73-Ta-180g  
73-Ta-180m2

47

Incident Energy (MeV)

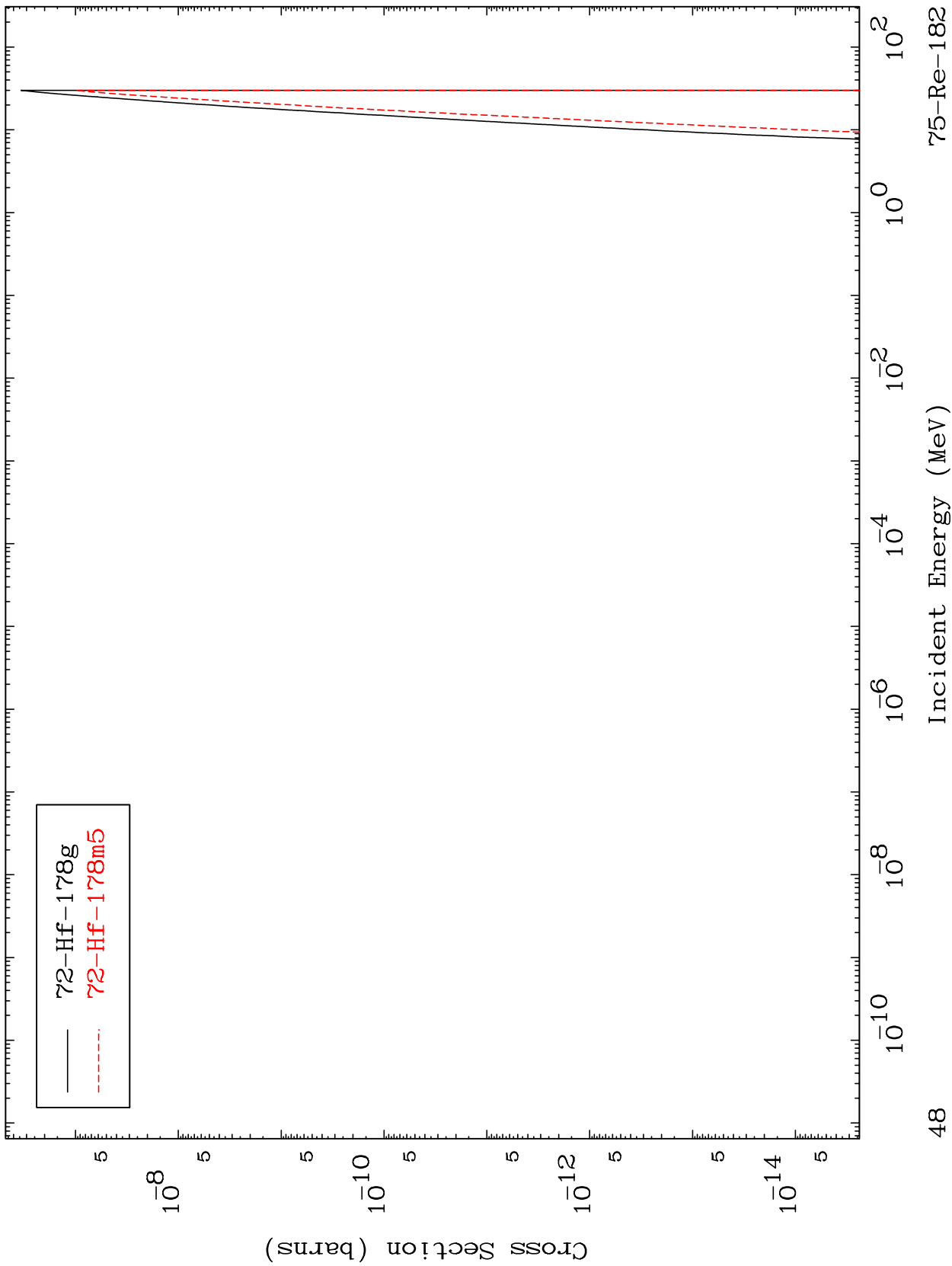
75-Re-182

MAT 7516

(n,p)  $\alpha$

<sup>75</sup>Re-<sup>182</sup>

Radionuclide Production Cross Section

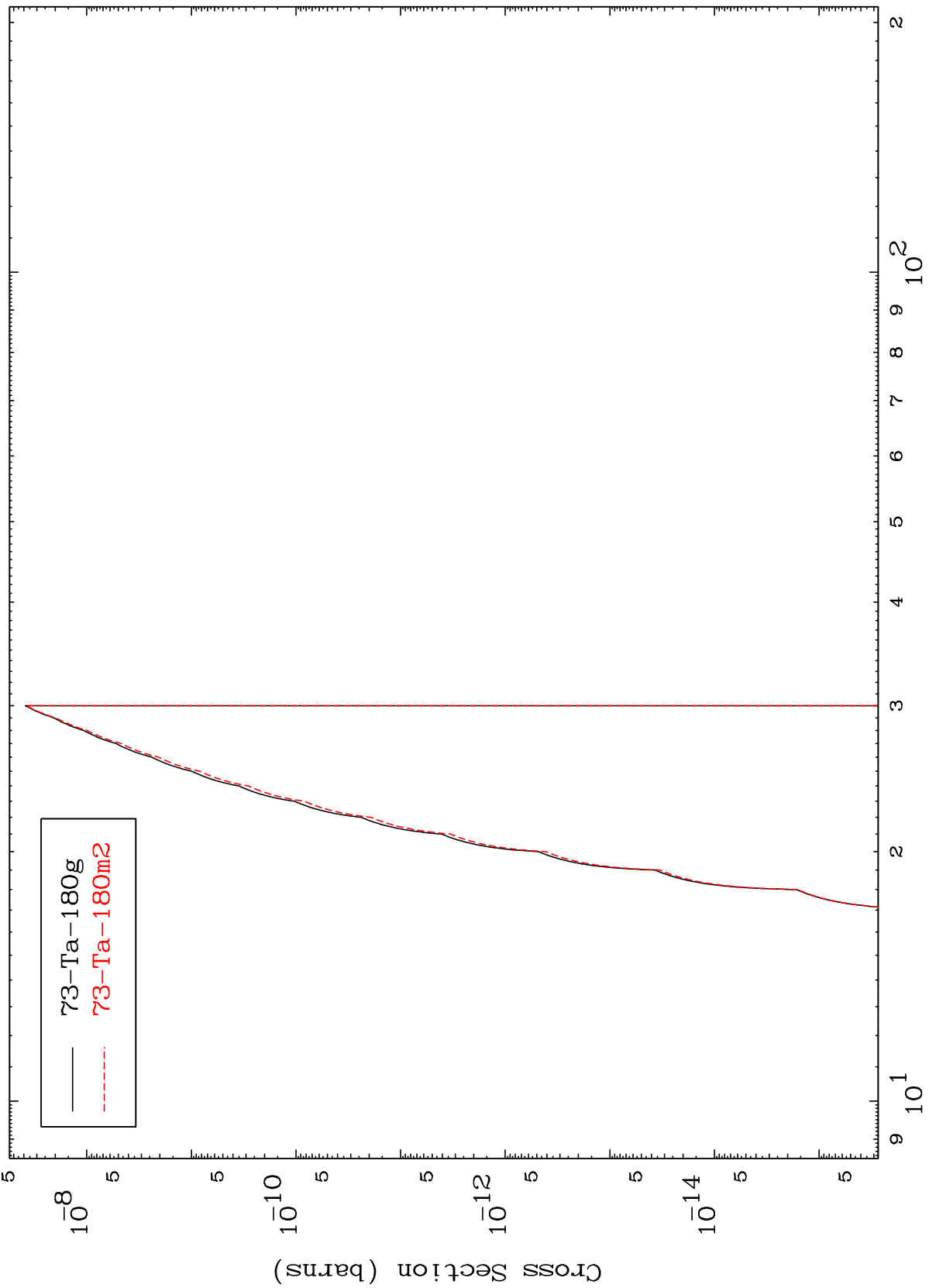


MAT 7516

(n,p) d

75-Re-182

Radionuclide Production Cross Section



49

Incident Energy (MeV)

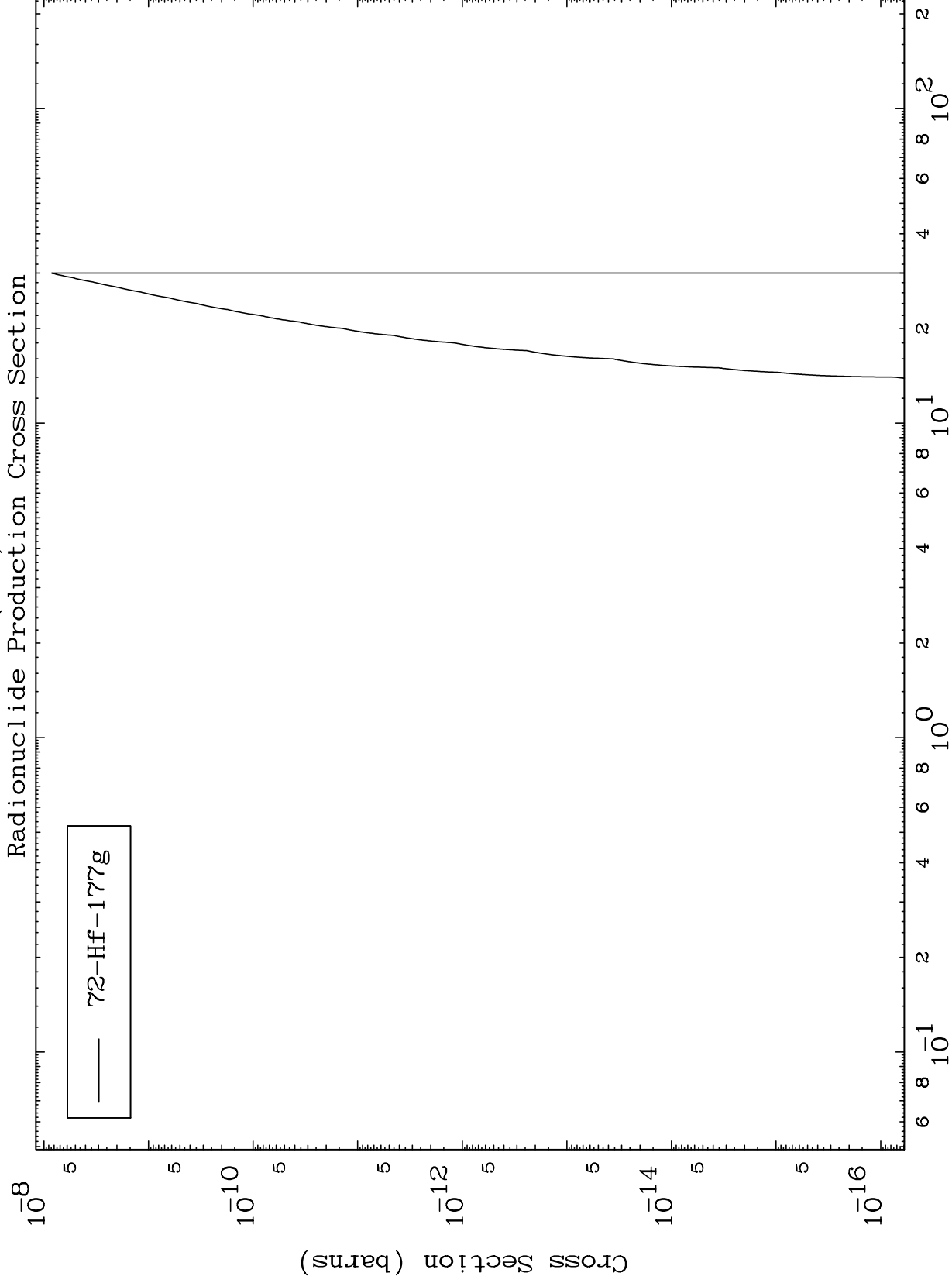
75-Re-182

MAT 7516

(n,d)  $\alpha$

75-Re-182

Radionuclide Production Cross Section



50

Incident Energy (MeV)

75-Re-182