

Program EVALPLOT  
(Version 2018-1)

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

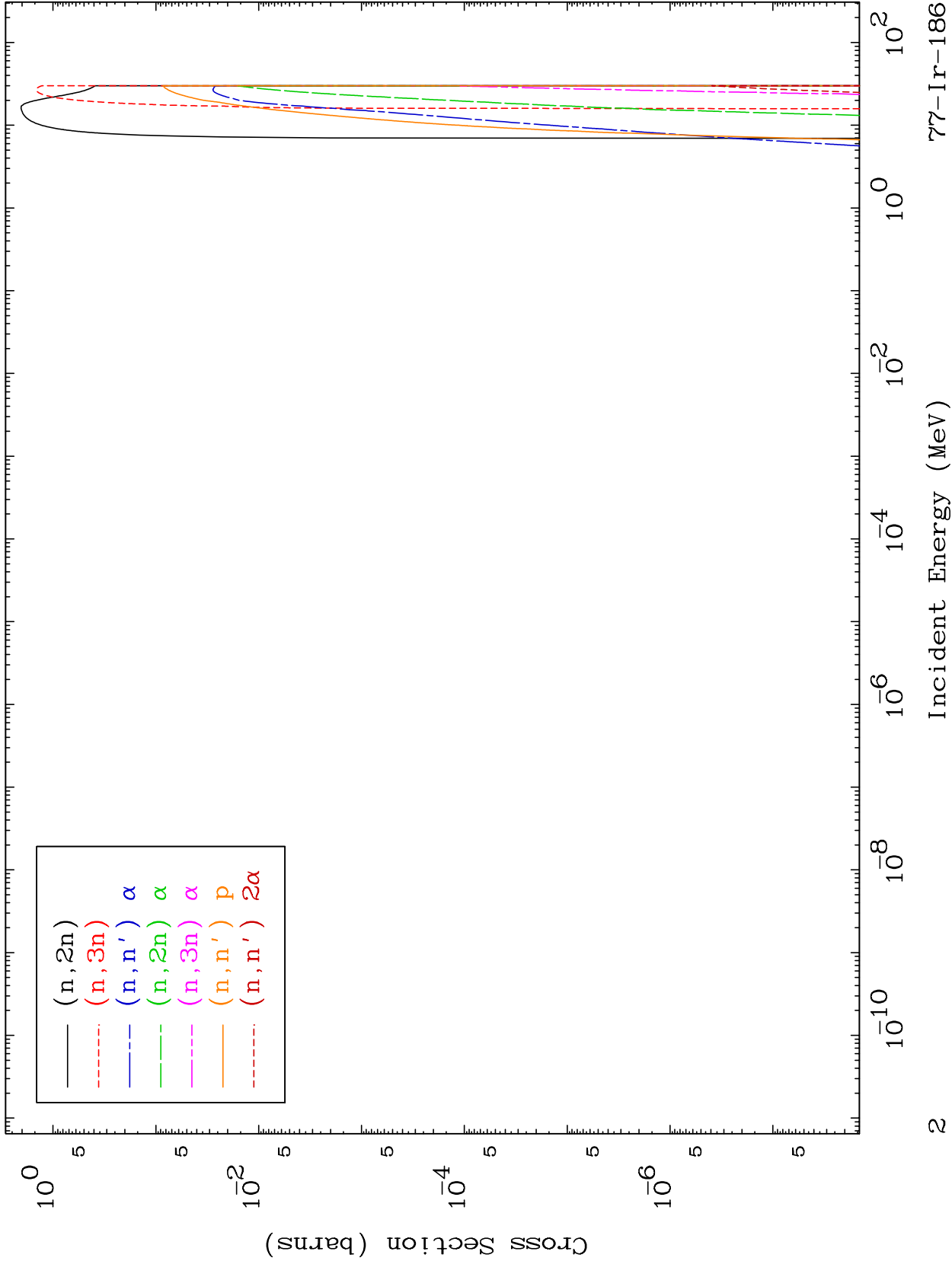
Press Mouse Button to Start



MAT 7710

Neutron Production  
293 Kelvin Cross Sections

77-Ir-186

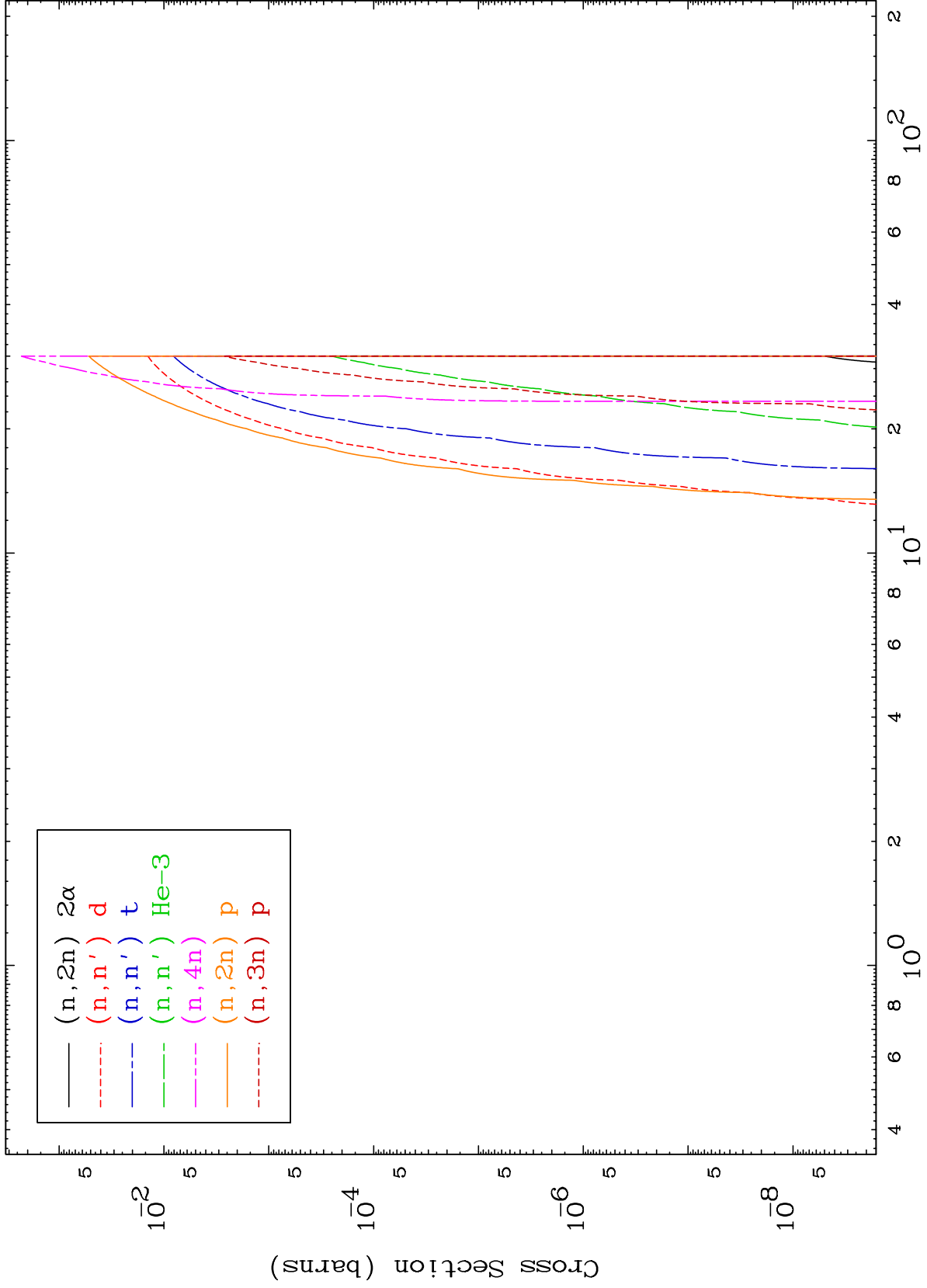


MAT 7710

Neutron Production

77-Ir-186

293 Kelvin Cross Sections



3

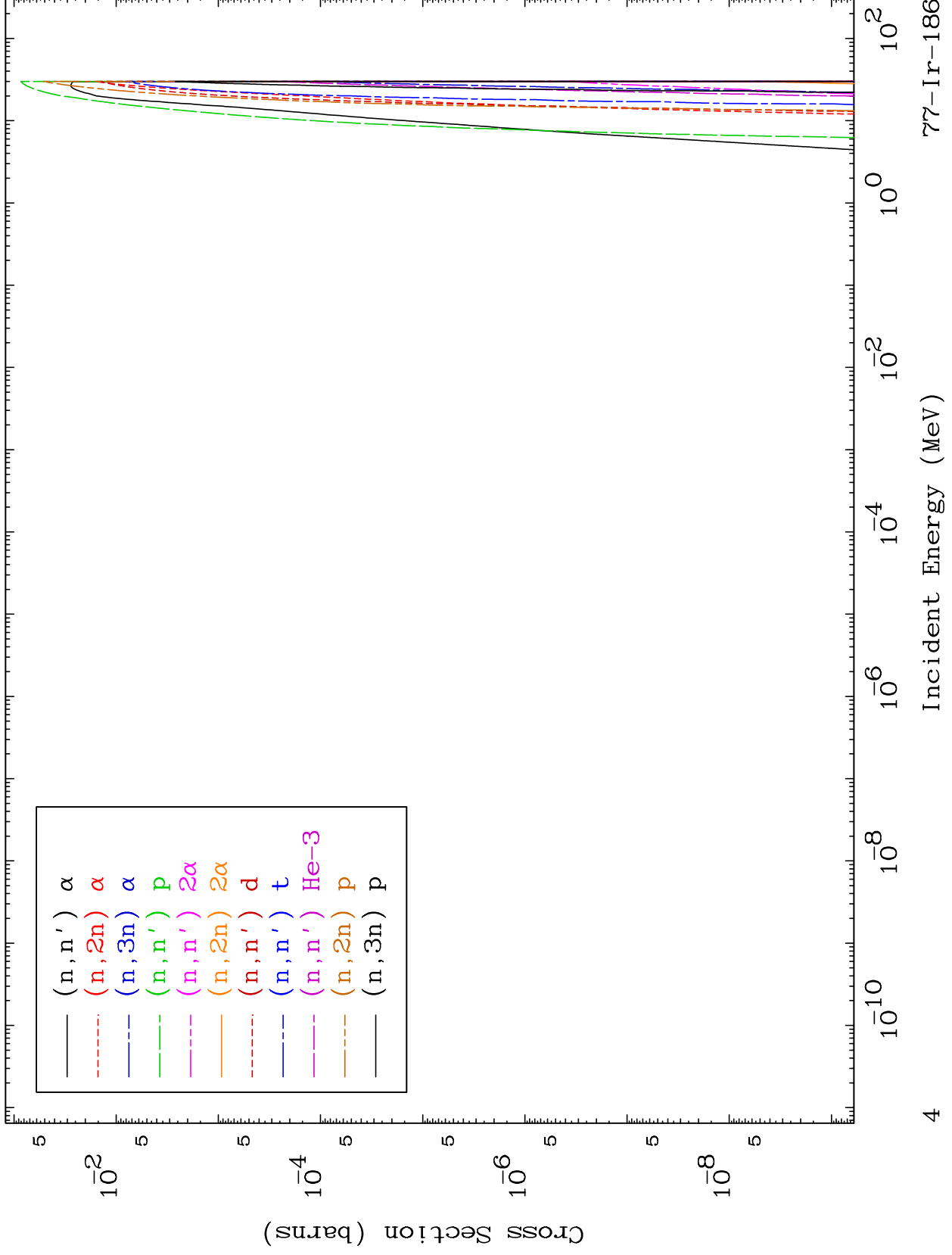
Incident Energy (MeV)

77-Ir-186

MAT 7710

Charged Particle  
293 Kelvin Cross Sections

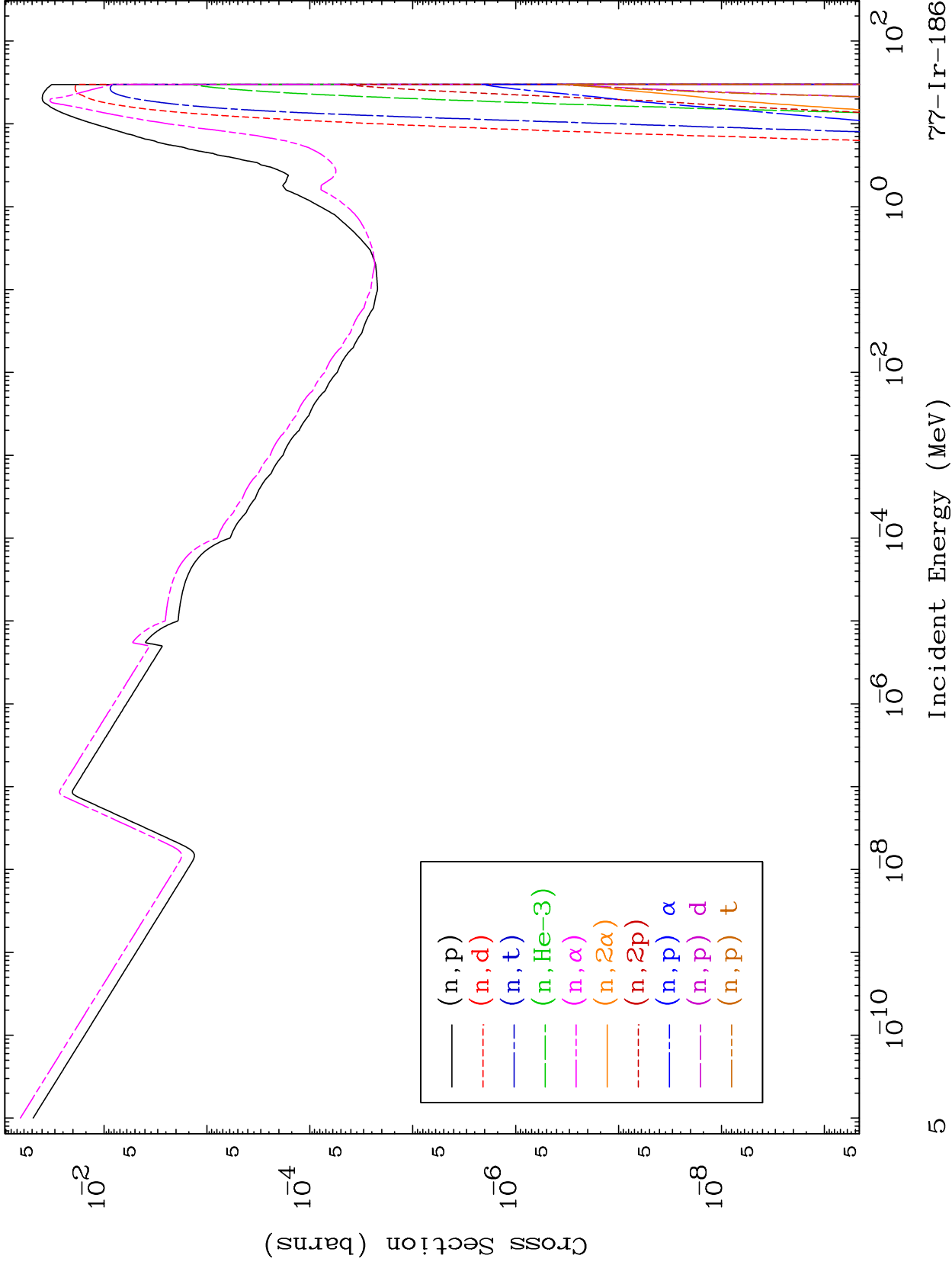
77-Ir-186



MAT 7710

Charged Particle  
293 Kelvin Cross Sections

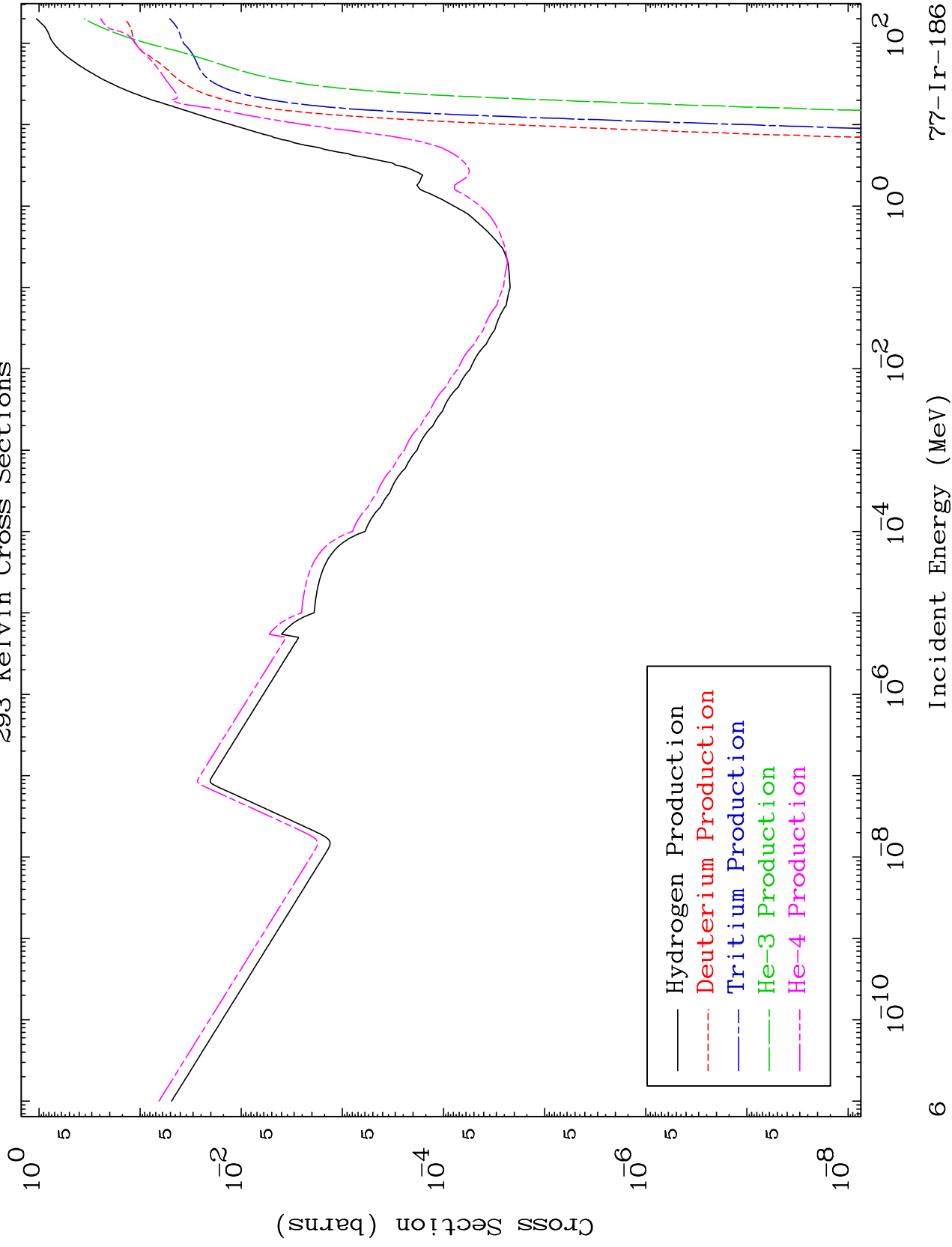
77-Ir-186



MAT 7710

Particle Production  
293 Kelvin Cross Sections

77-Ir-186

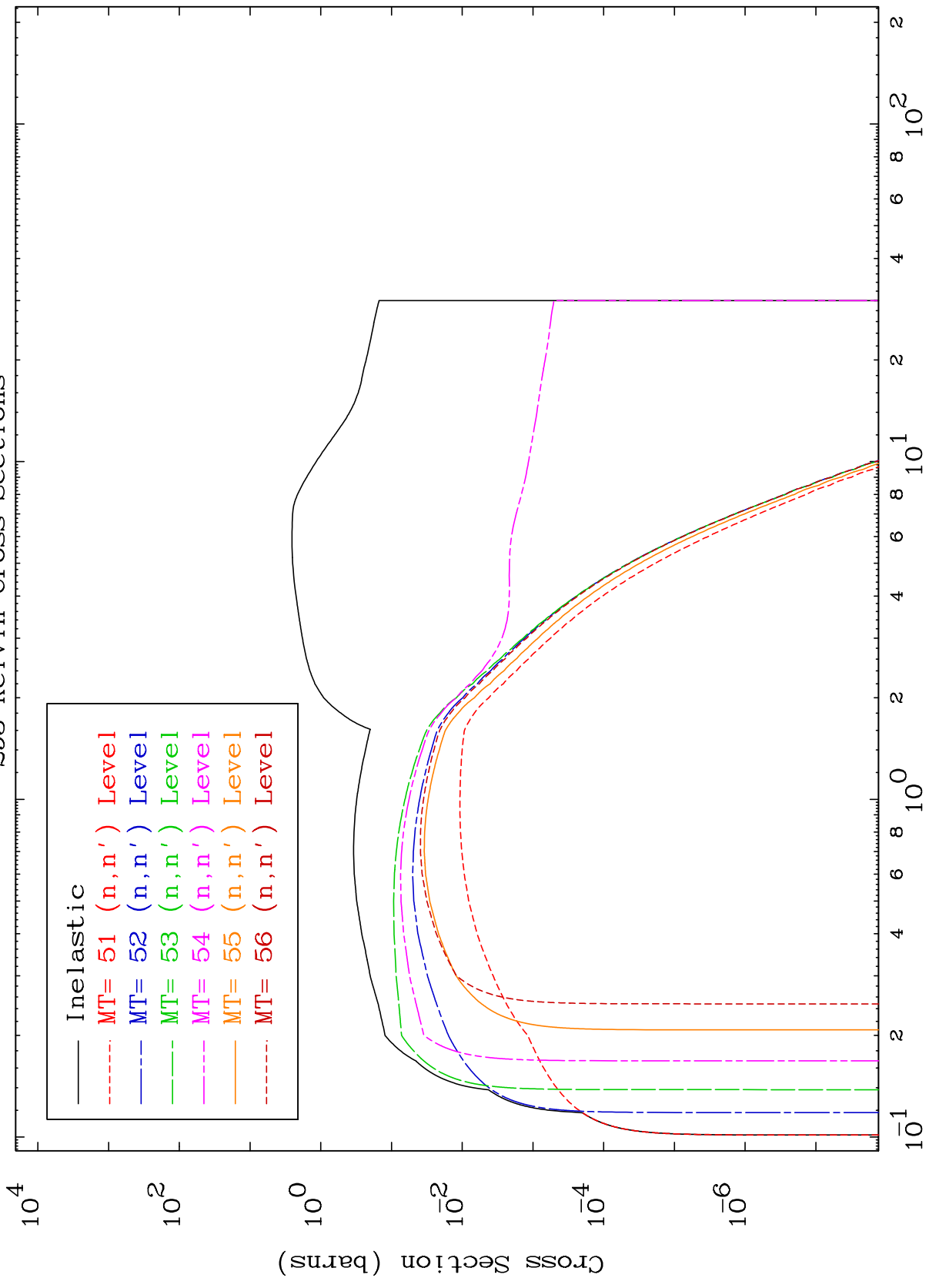


MAT 7710

(n,n') Level

77-Ir-186

293 Kelvin Cross Sections



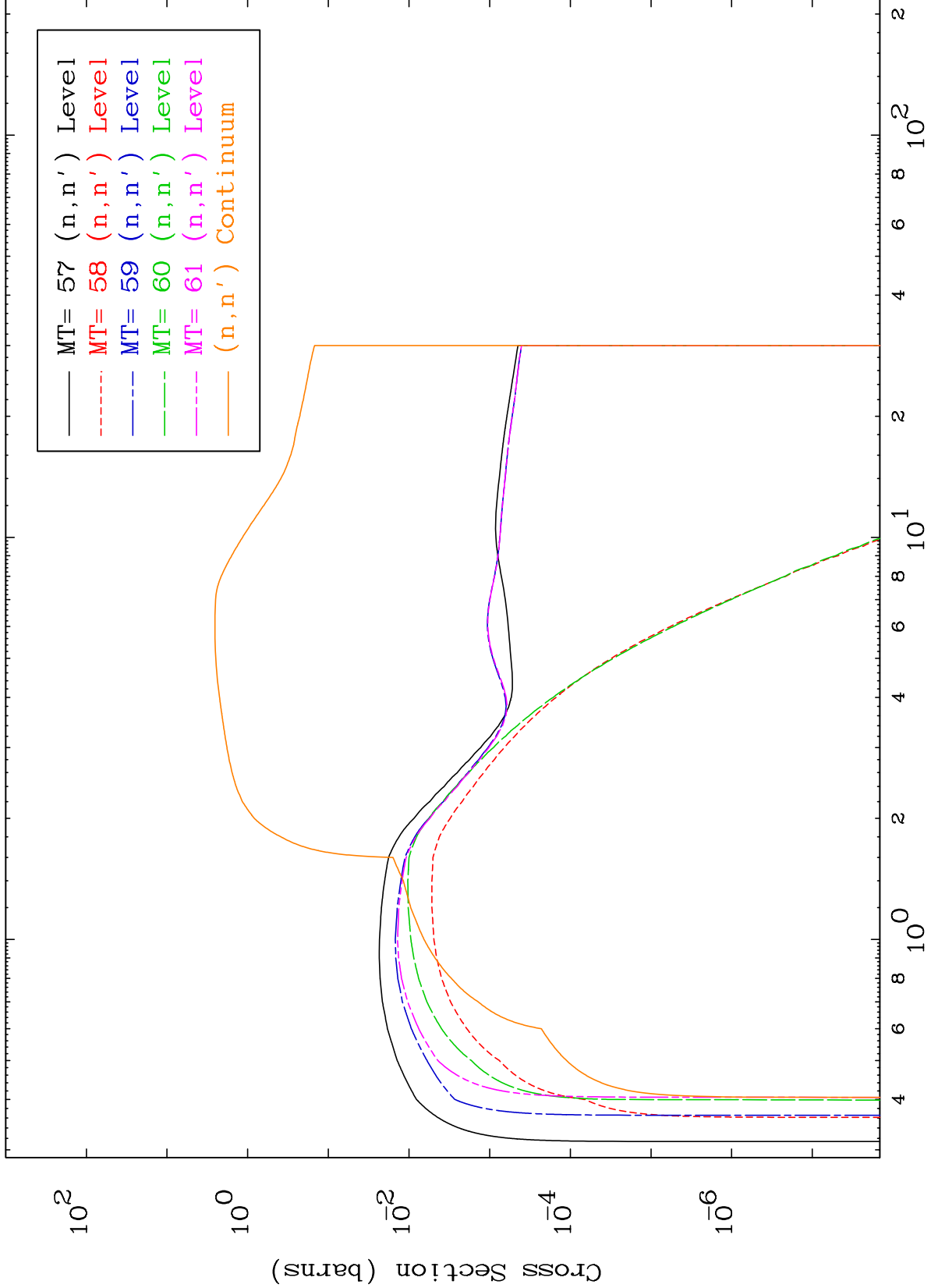
Incident Energy (MeV)

77-Ir-186

7



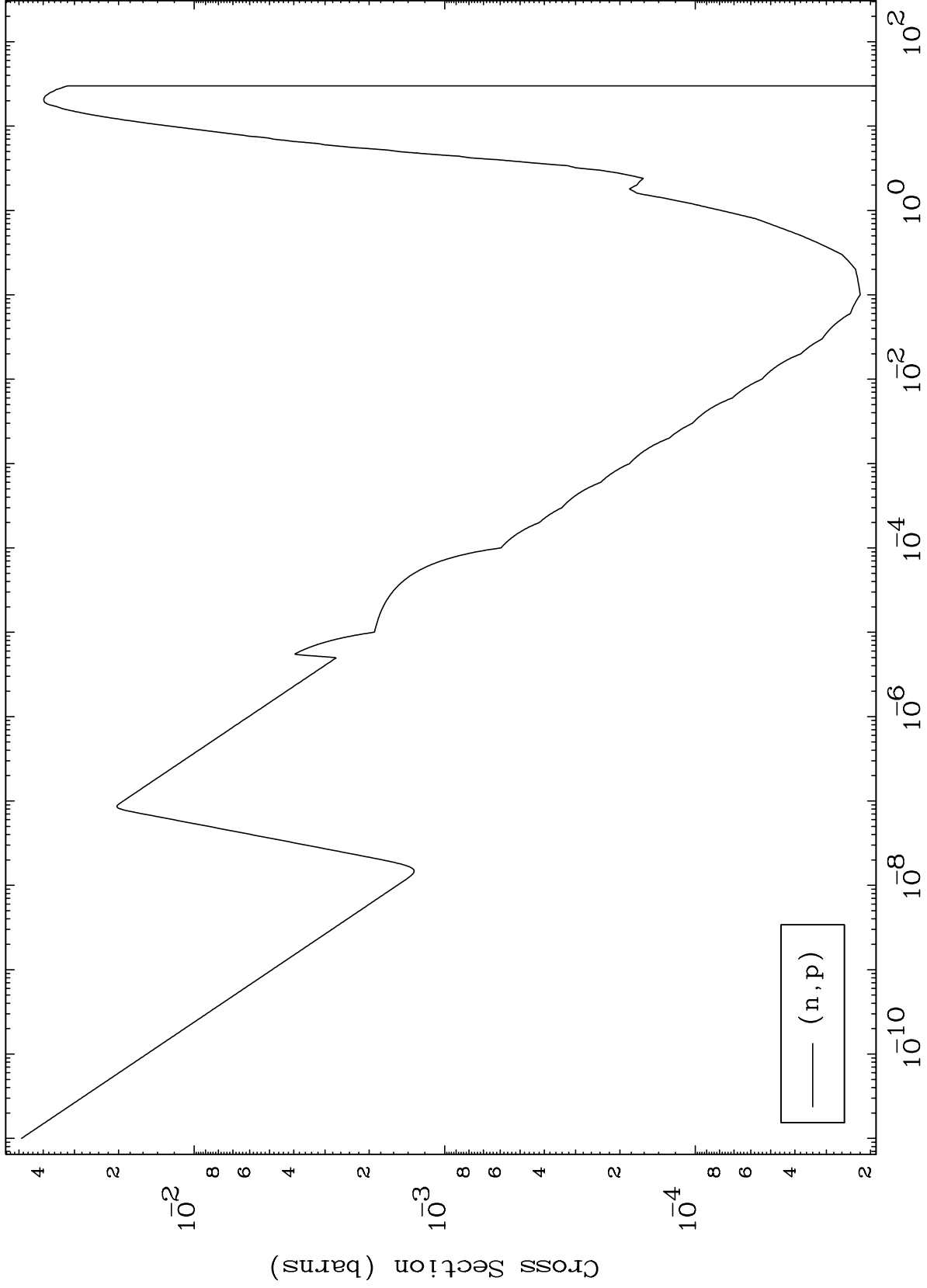
293 Kelvin Cross Sections



MAT 7710

(n,p) Levels  
293 Kelvin Cross Sections

77-Ir-186



(n,p)

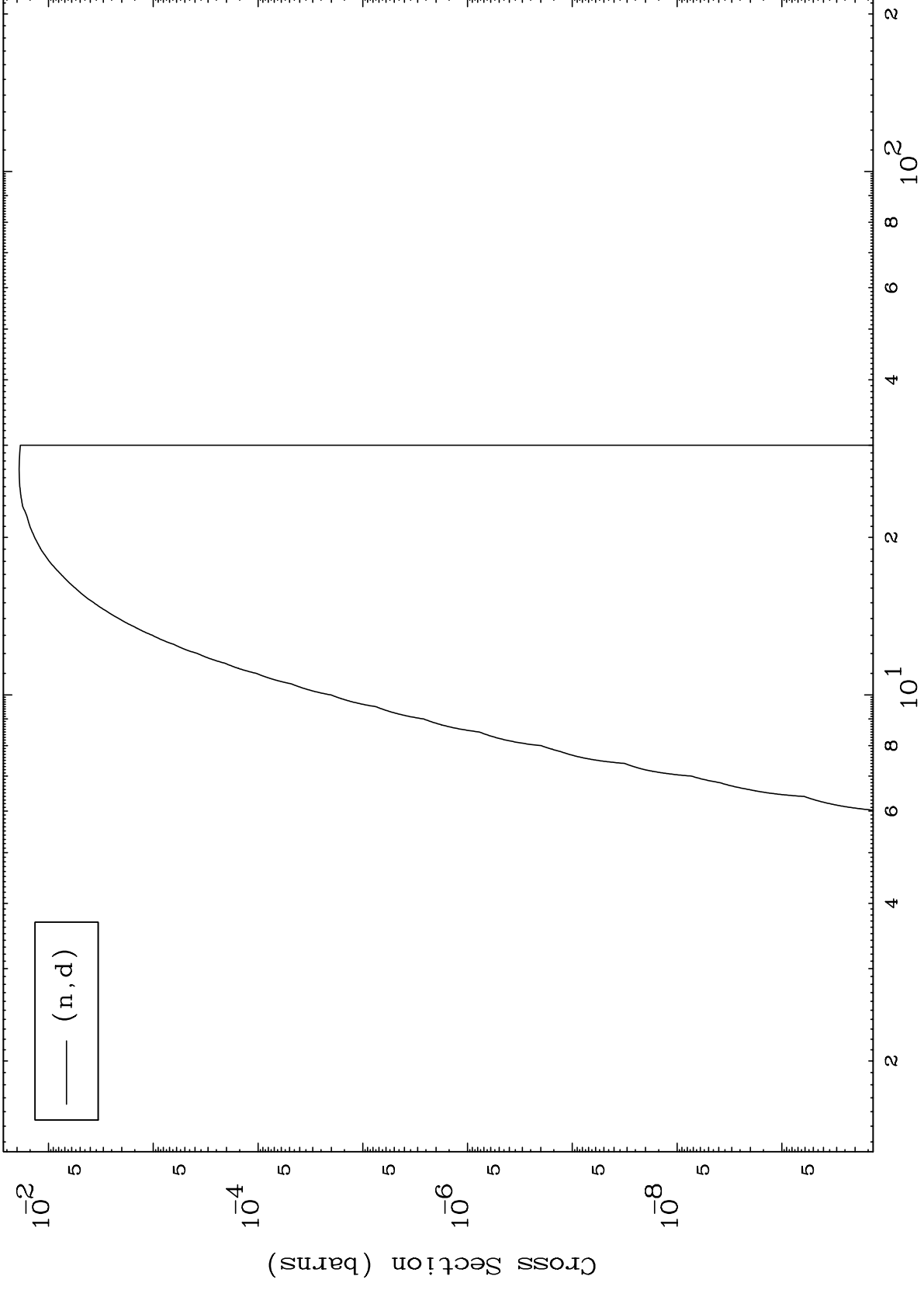
77-Ir-186

Incident Energy (MeV)

MAT 7710

(n,d) Levels  
293 Kelvin Cross Sections

77-Ir-186



10

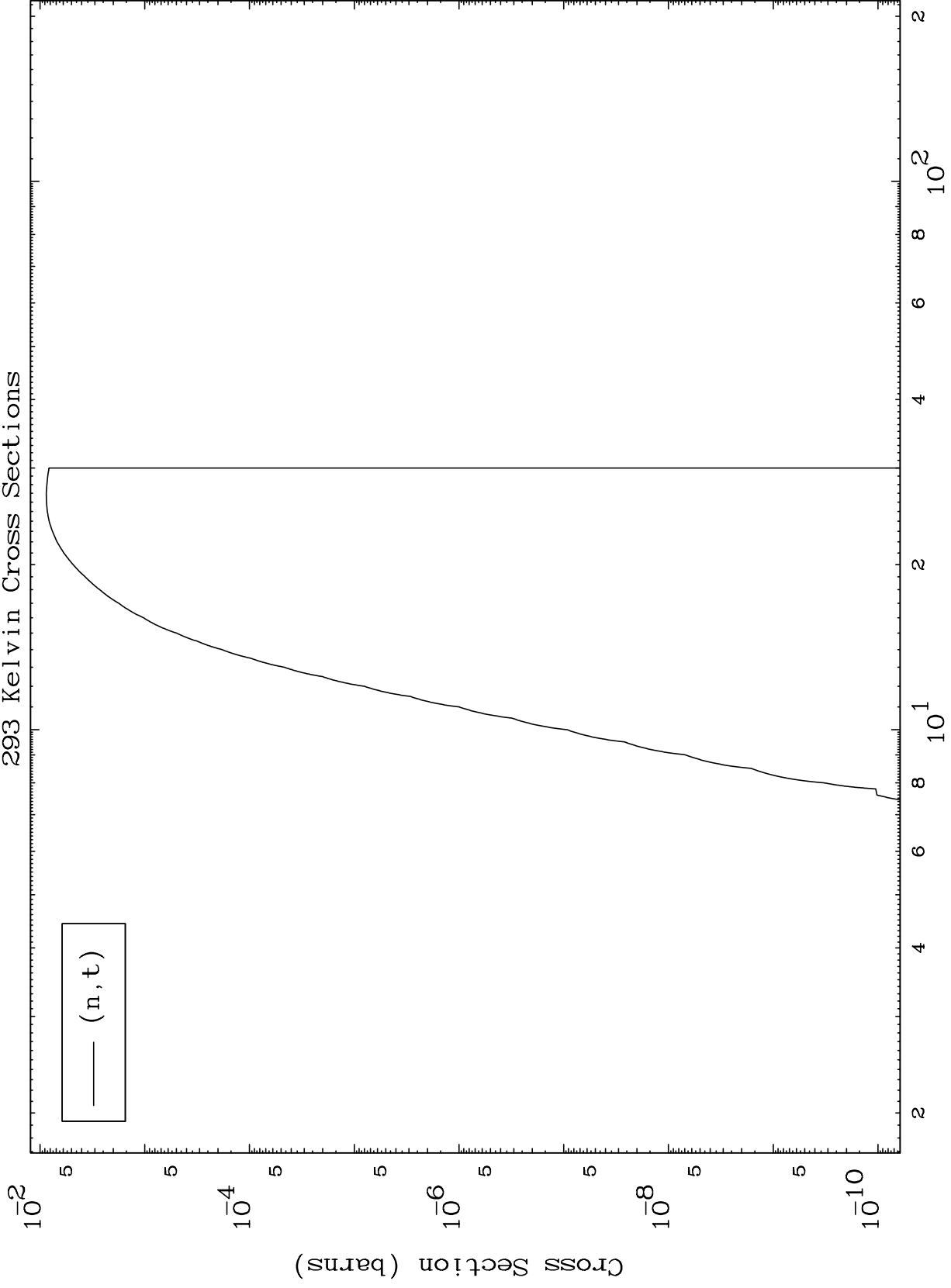
Incident Energy (MeV)

77-Ir-186

MAT 7710

(n,t) Levels  
293 Kelvin Cross Sections

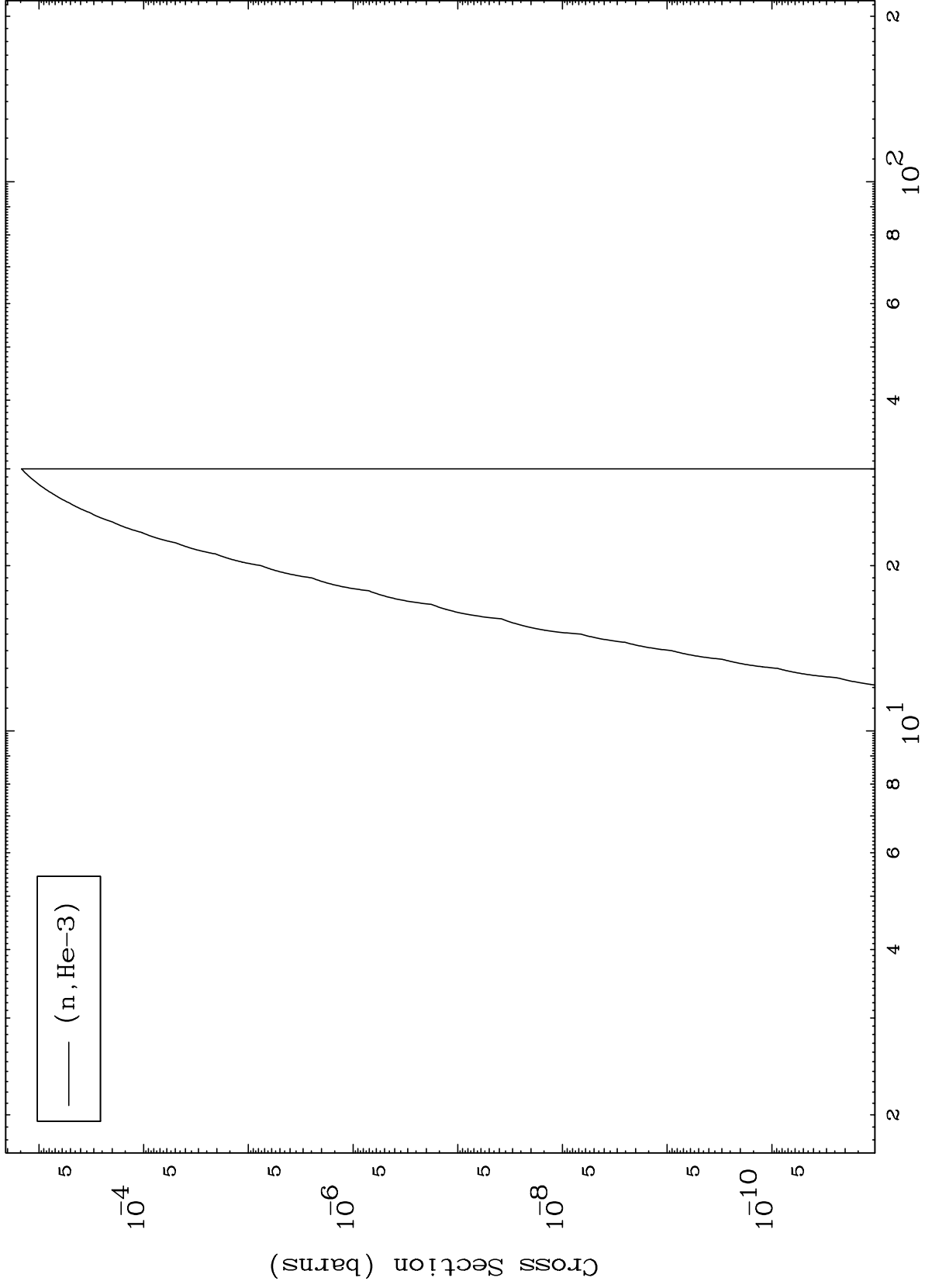
77-Ir-186



MAT 7710

(n,He3) Levels  
293 Kelvin Cross Sections

77-Ir-186



12

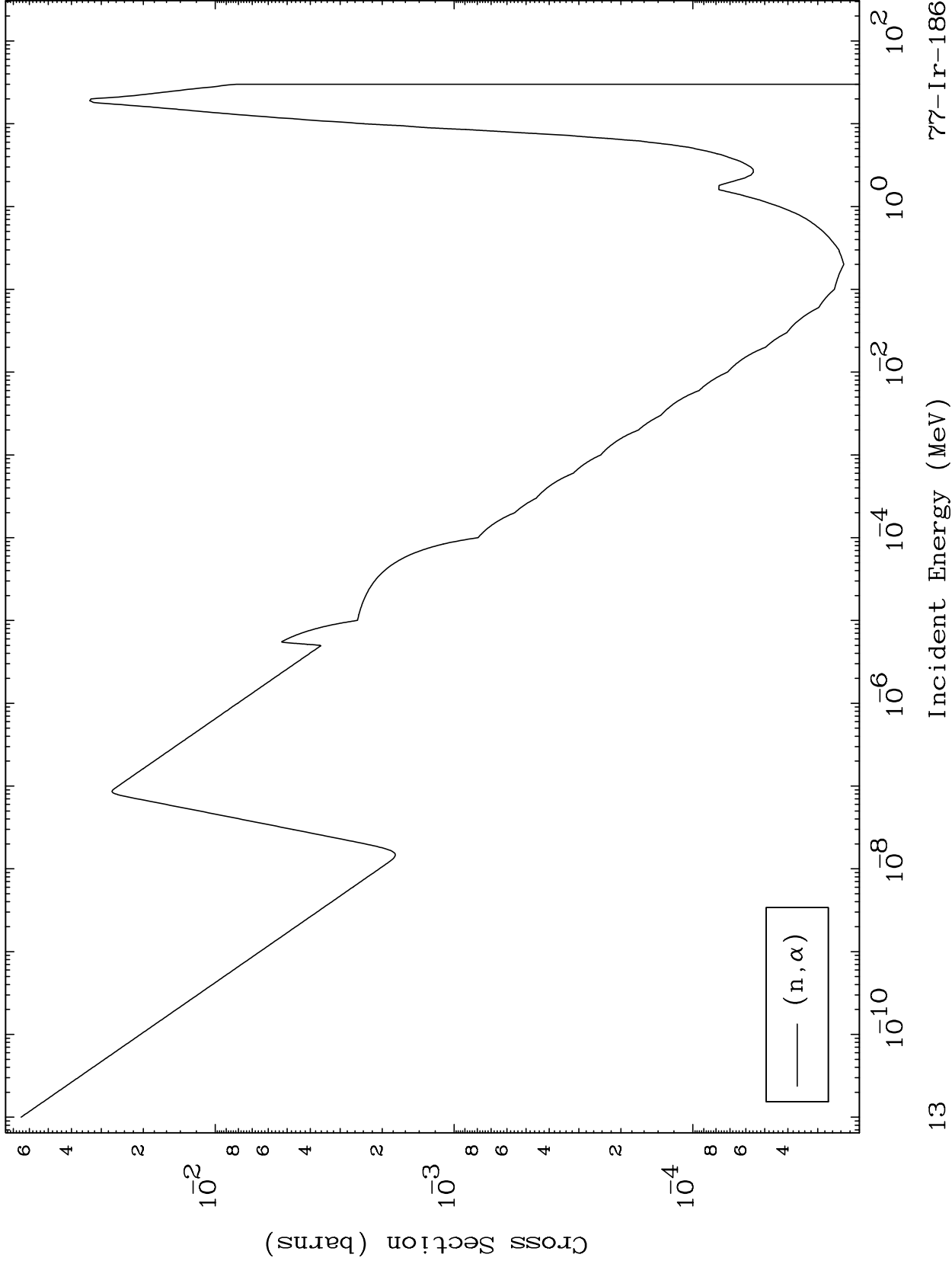
Incident Energy (MeV)

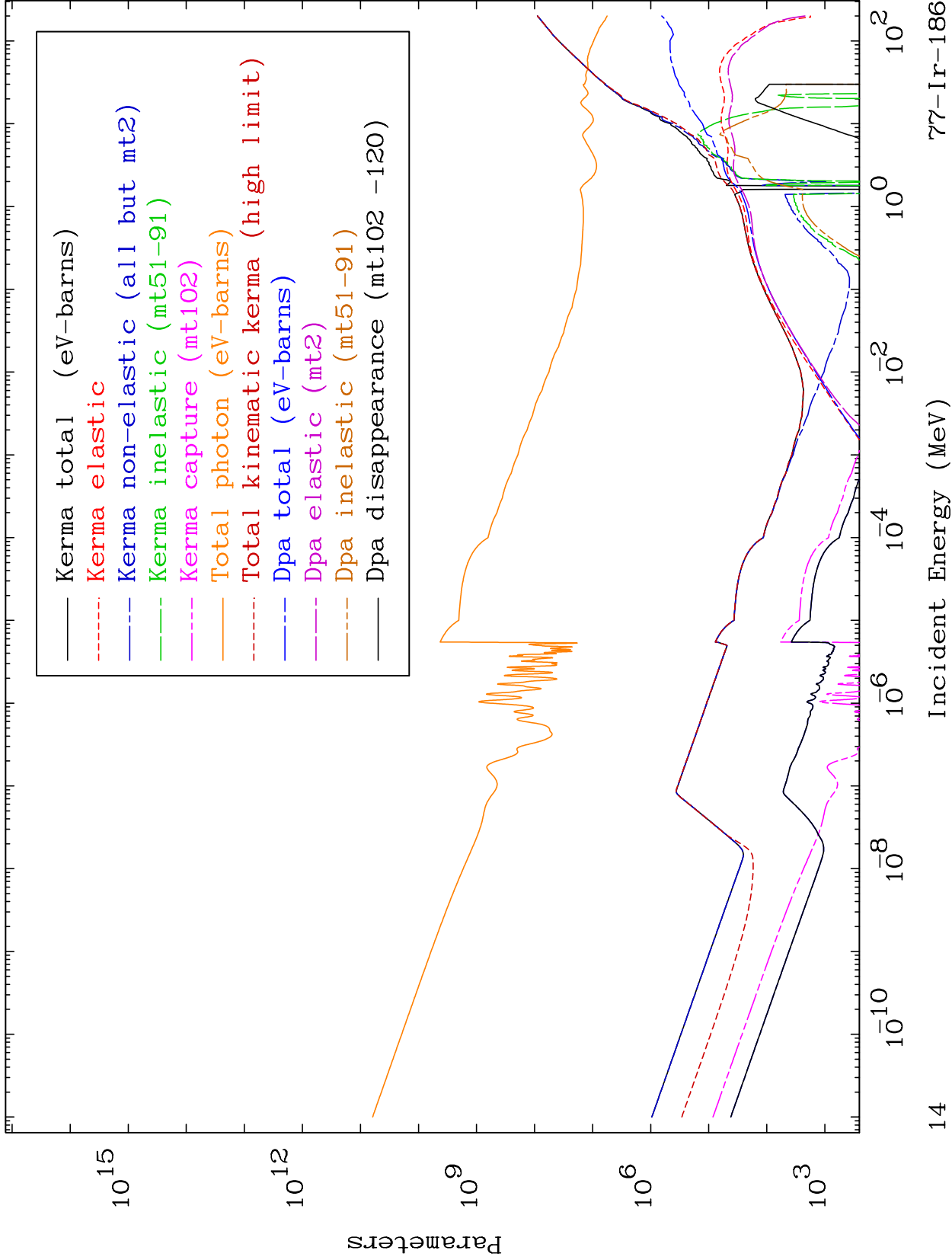
77-Ir-186

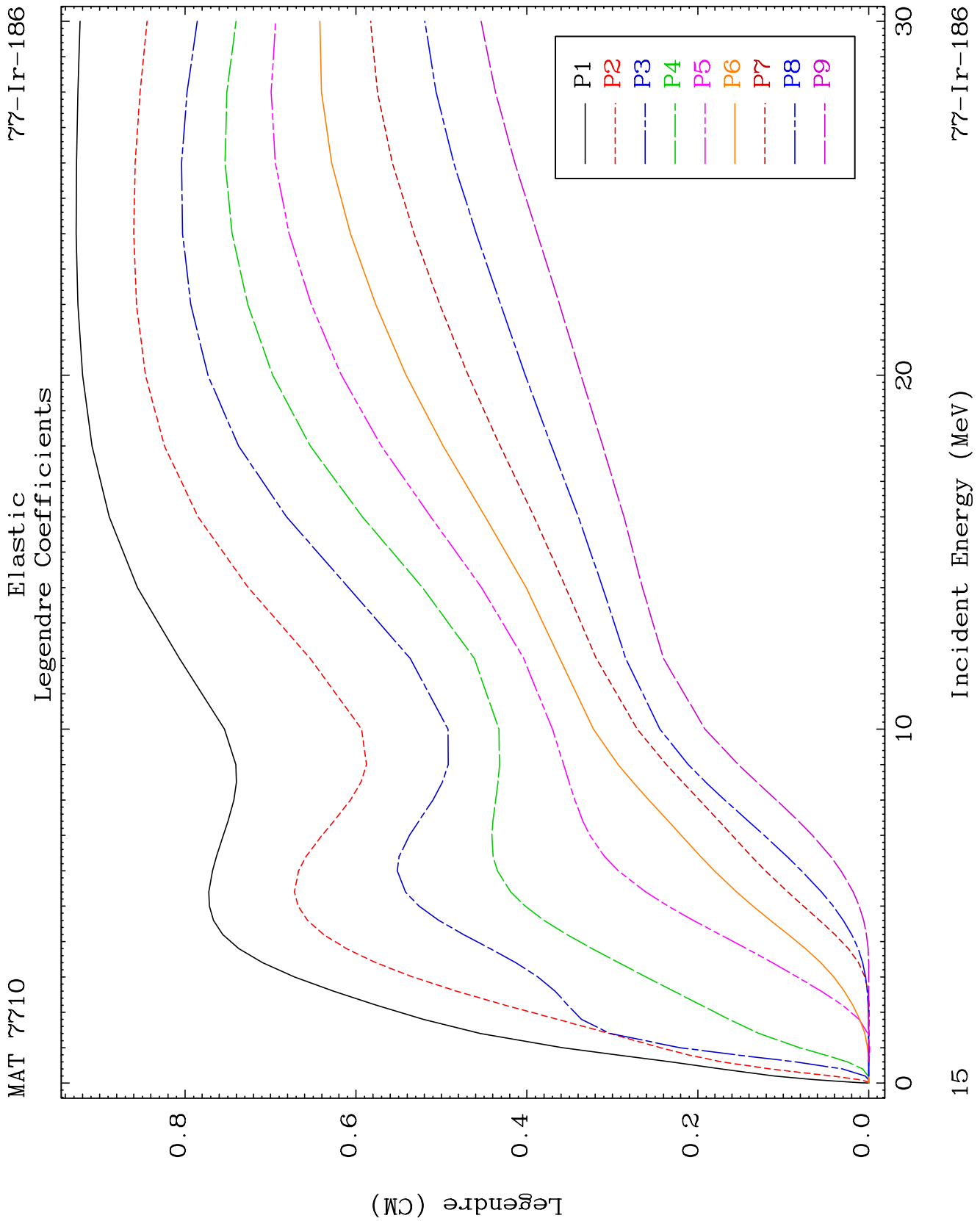
MAT 7710

(n,α) Levels  
293 Kelvin Cross Sections

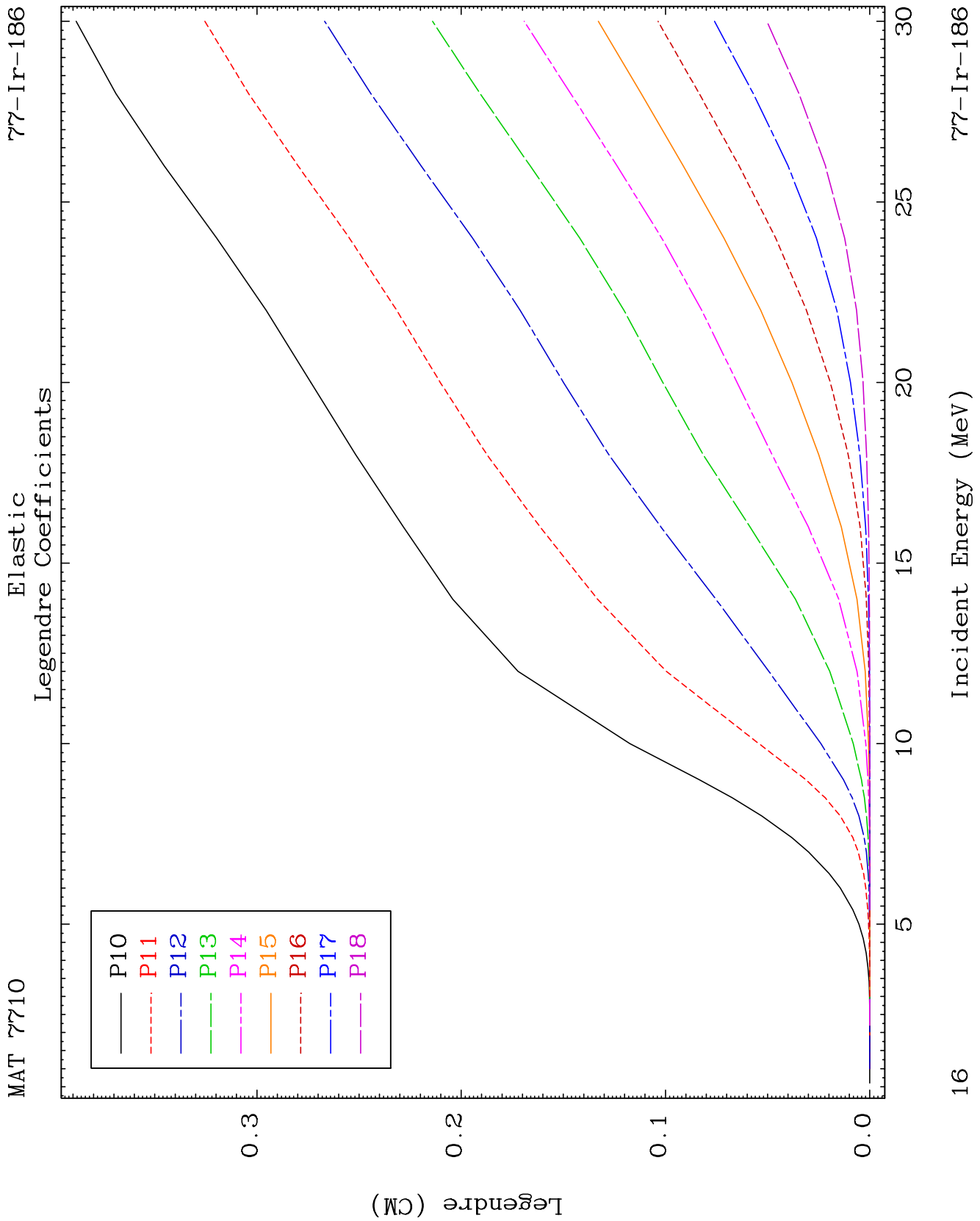
77-Ir-186







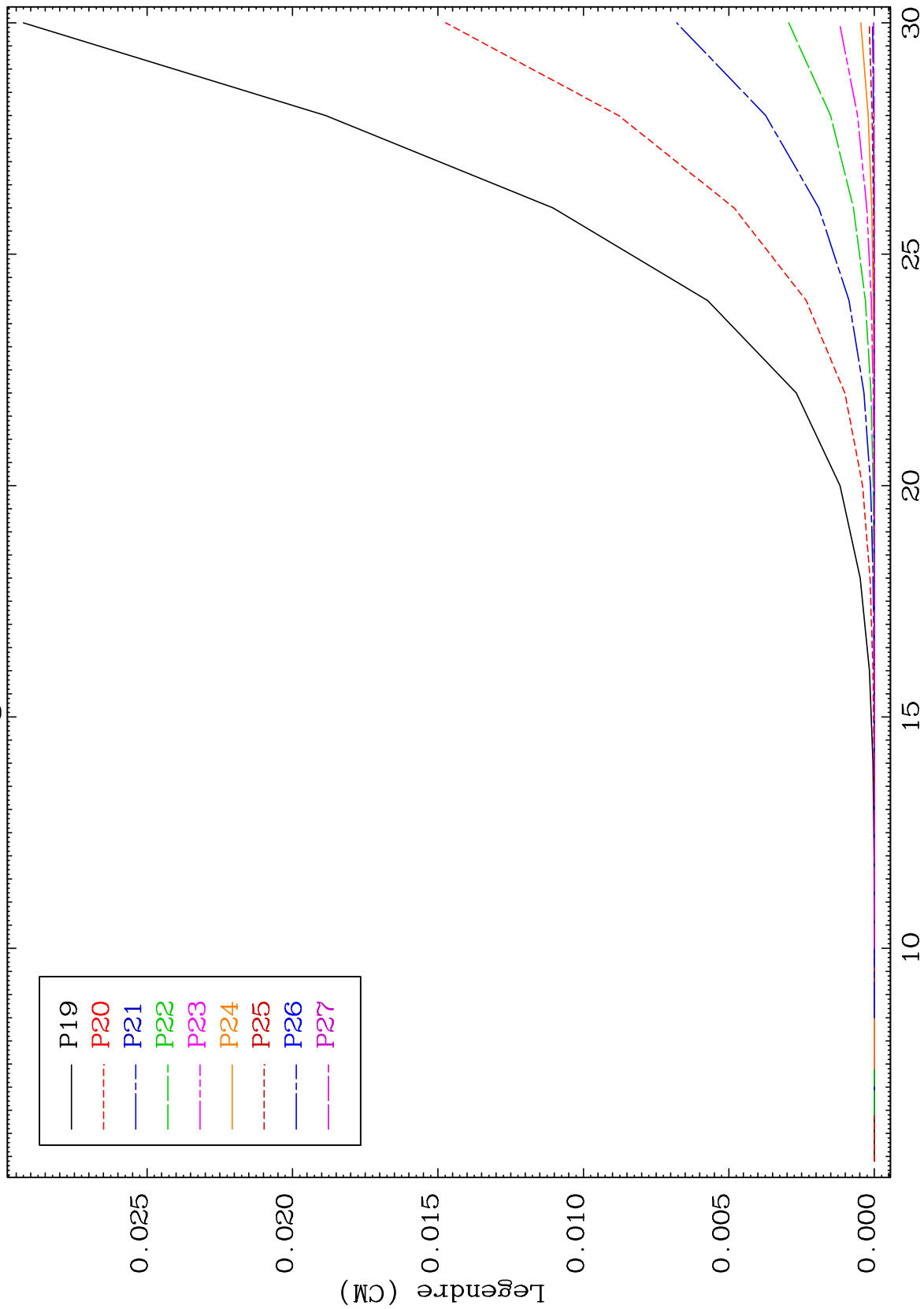




MAT 7710

### Elastic Legendre Coefficients

77-Ir-186

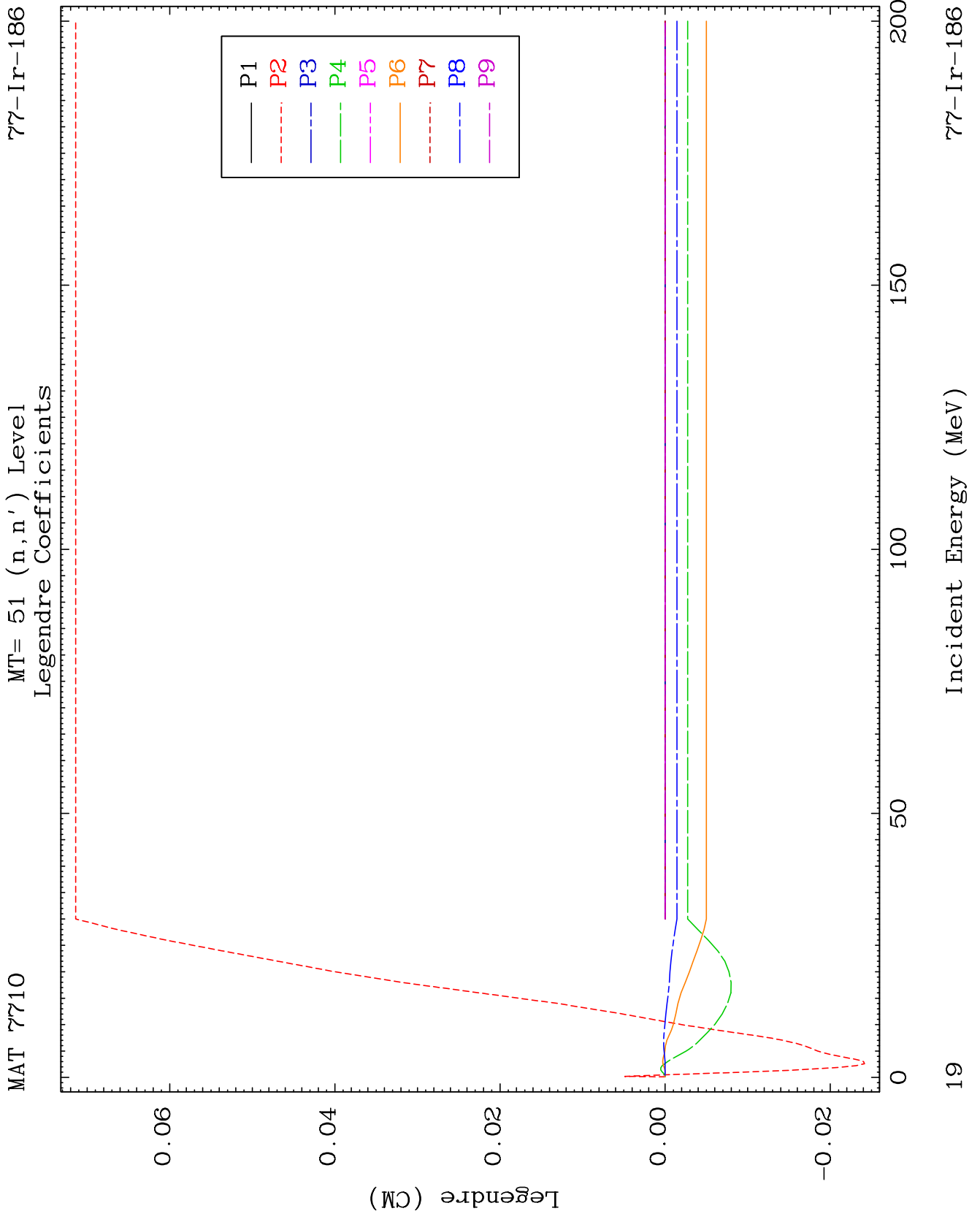


17

Incident Energy (MeV)

77-Ir-186

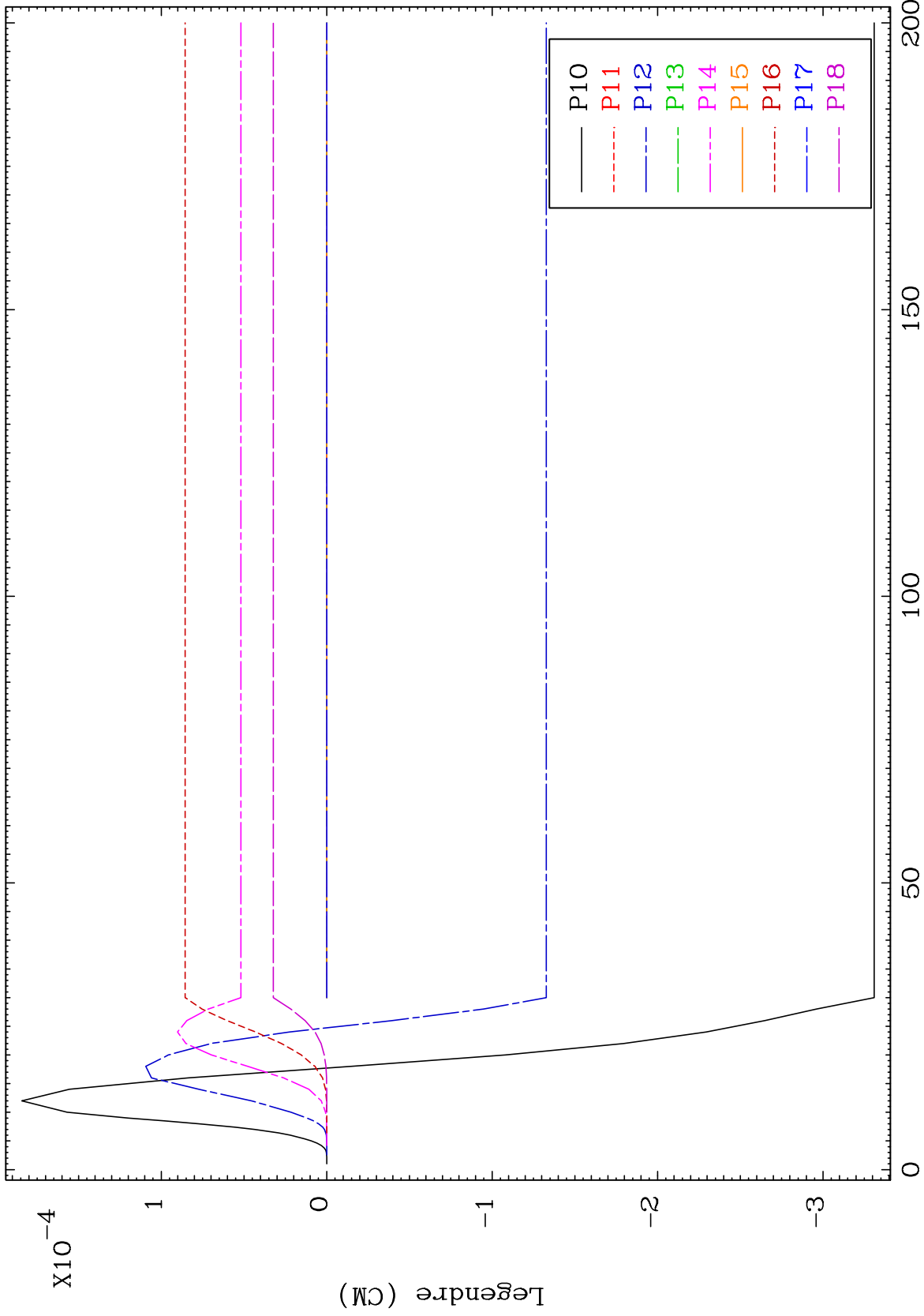




MAT 7710

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

77-Ir-186



0

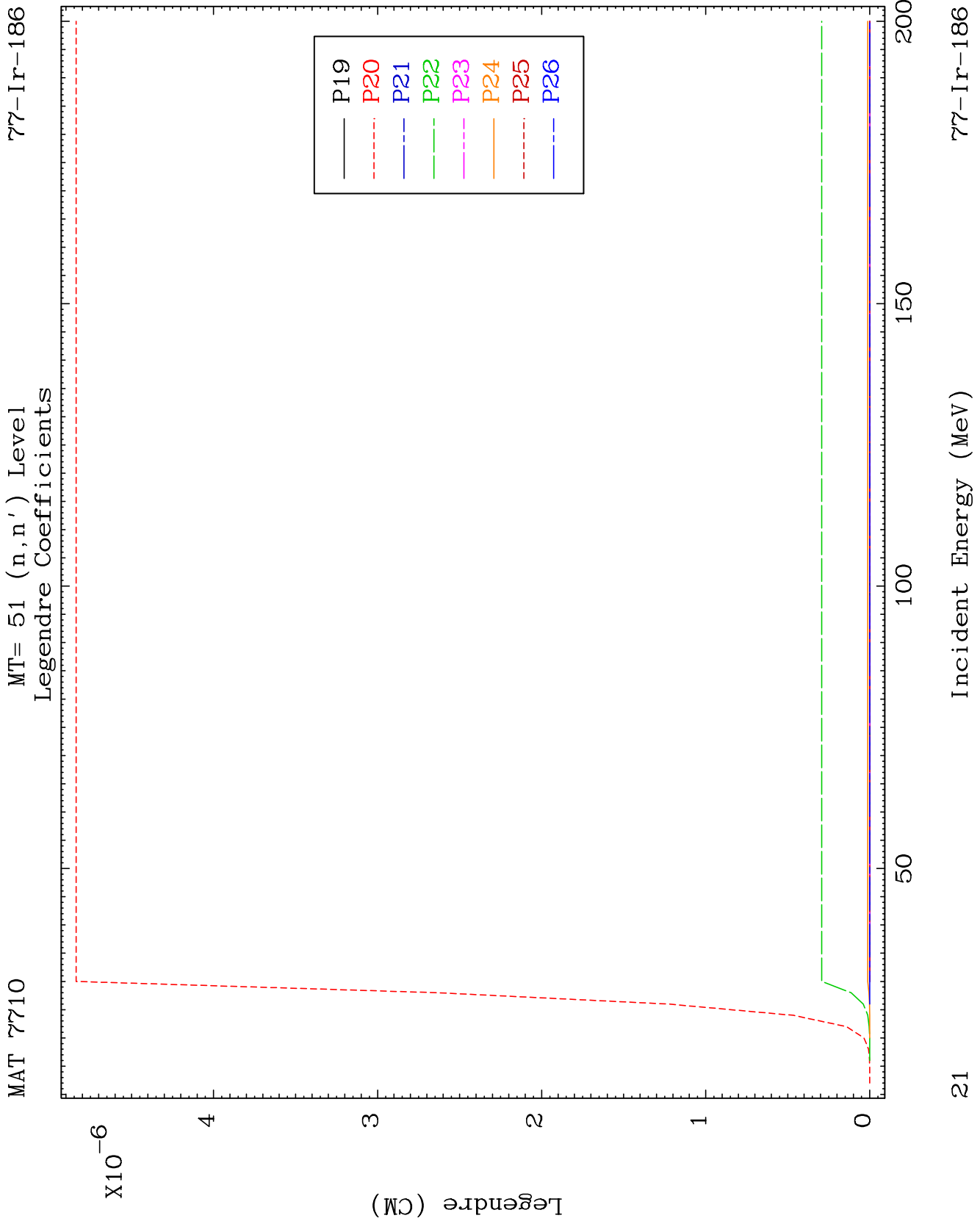
50

100

150

200

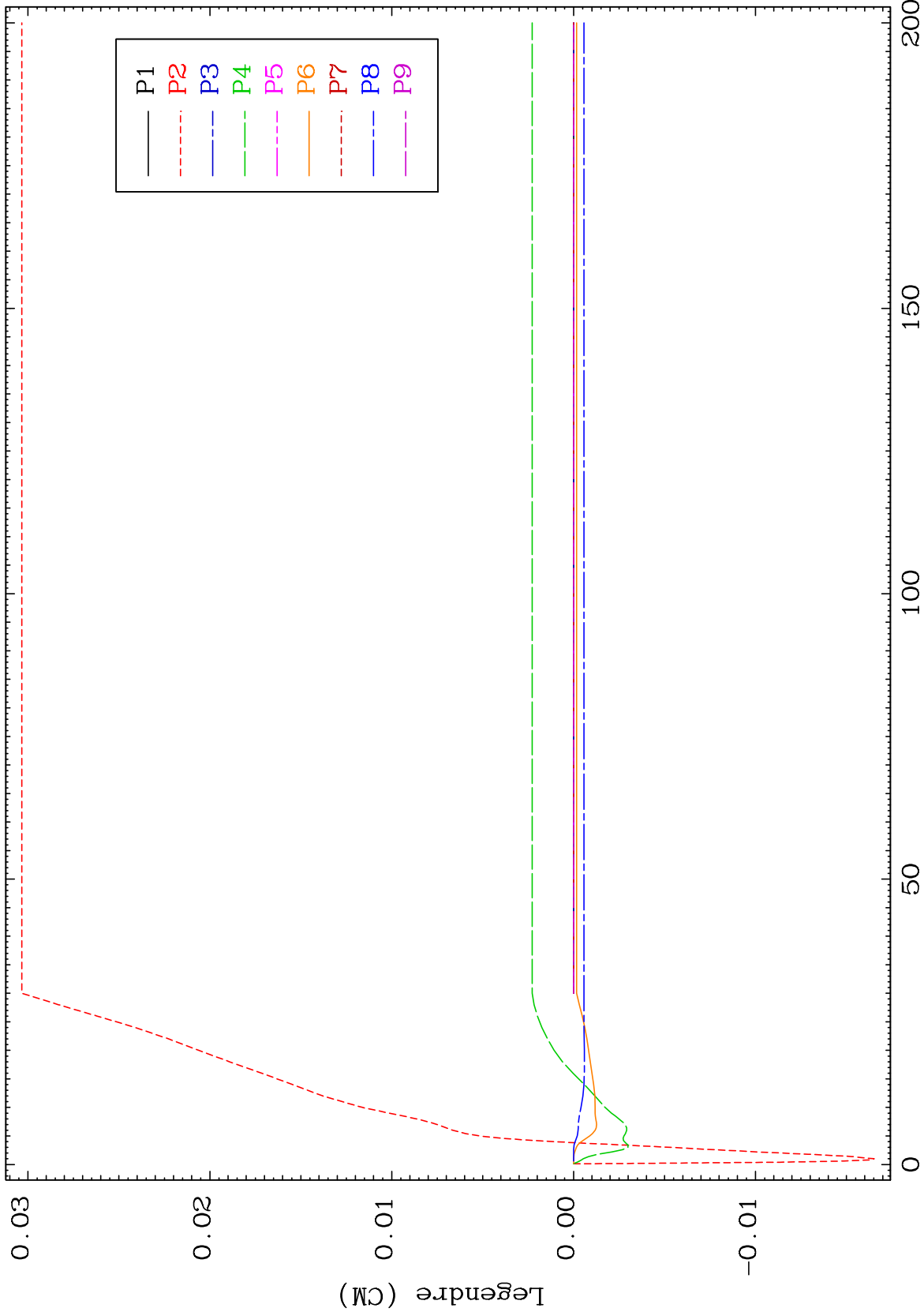
77-Ir-186



MAT 7710

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

77-Ir-186



22

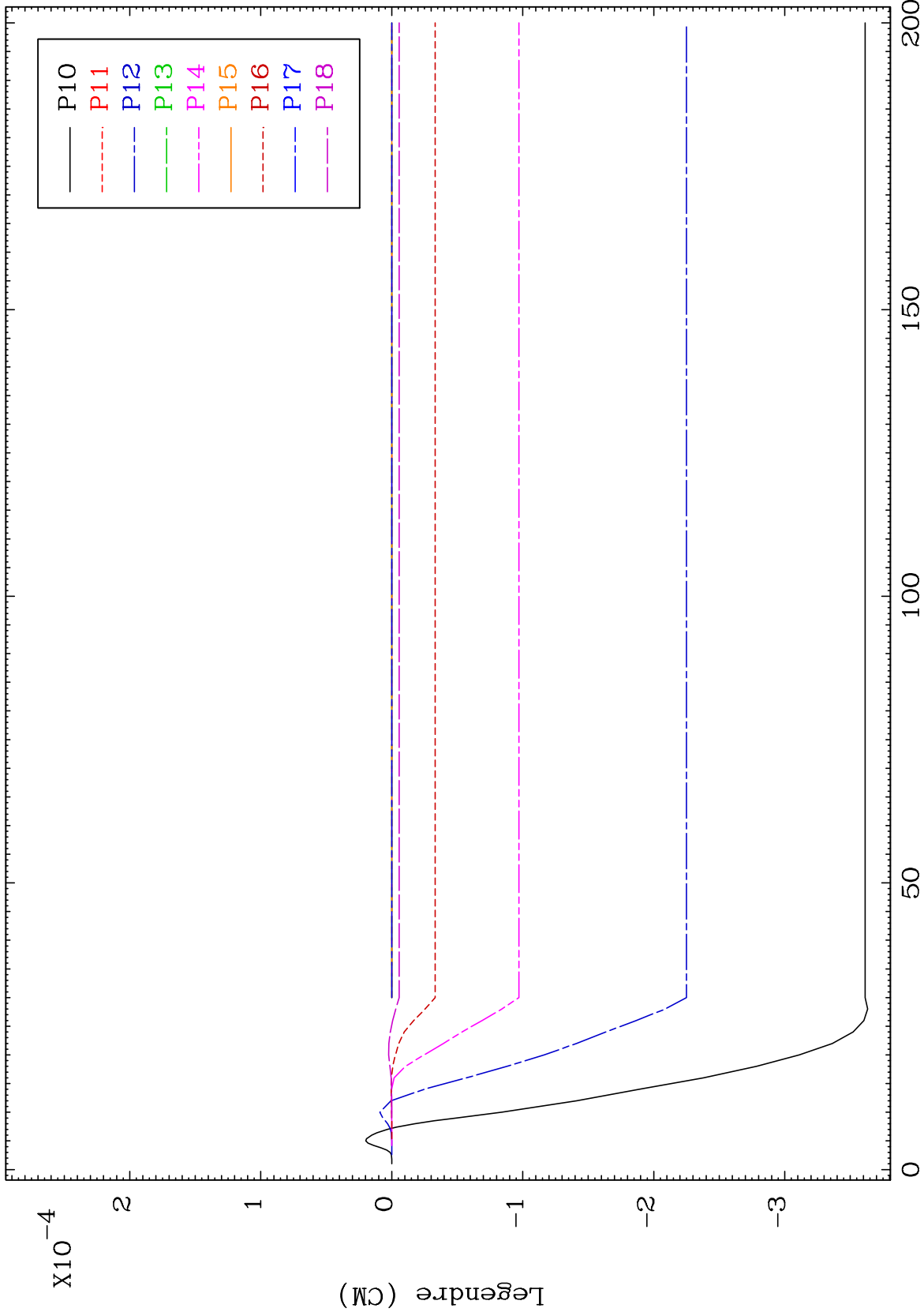
Incident Energy (MeV)

77-Ir-186

MAT 7710

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

77-Ir-186

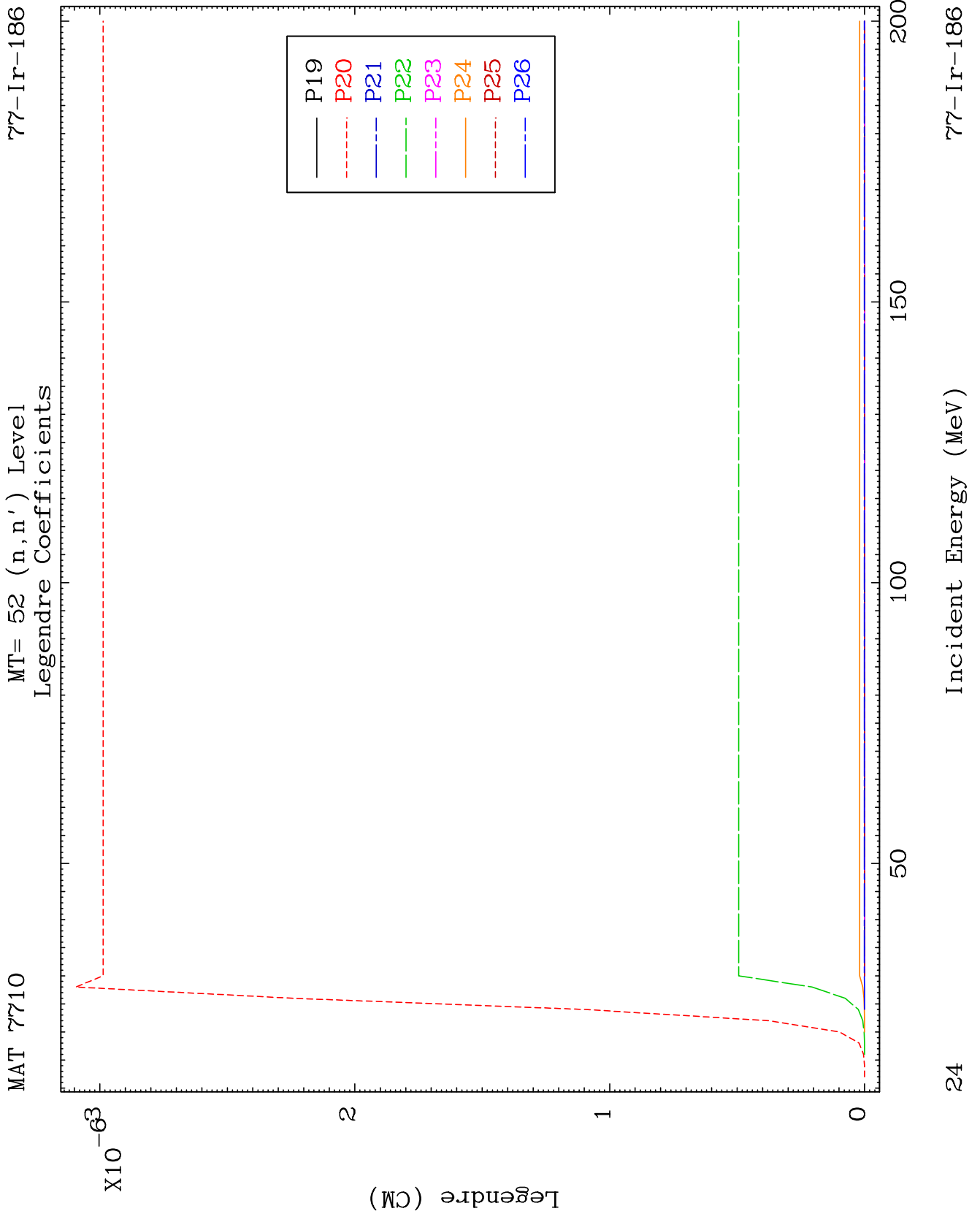


23

Incident Energy (MeV)

77-Ir-186

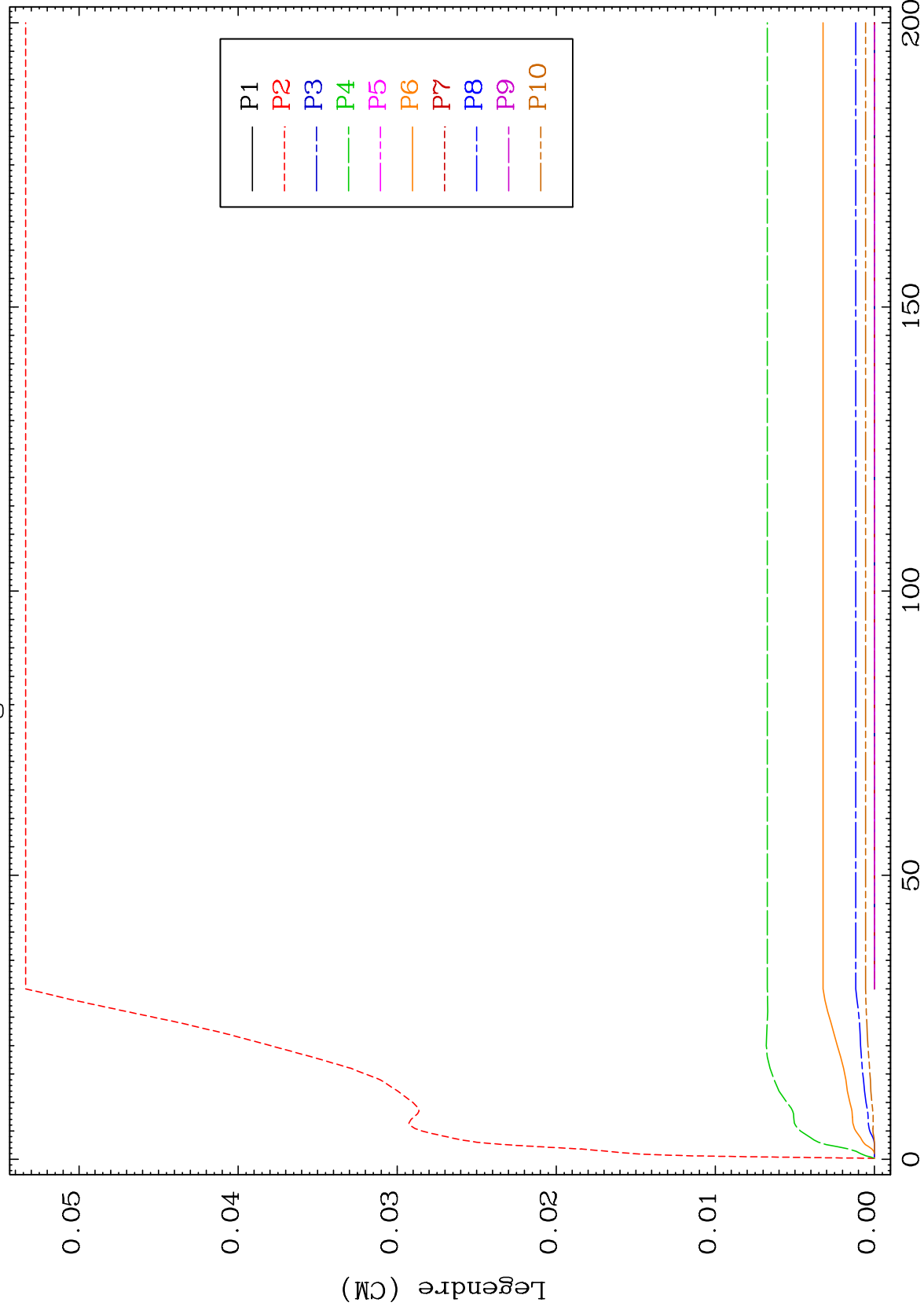




MAT 7710

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

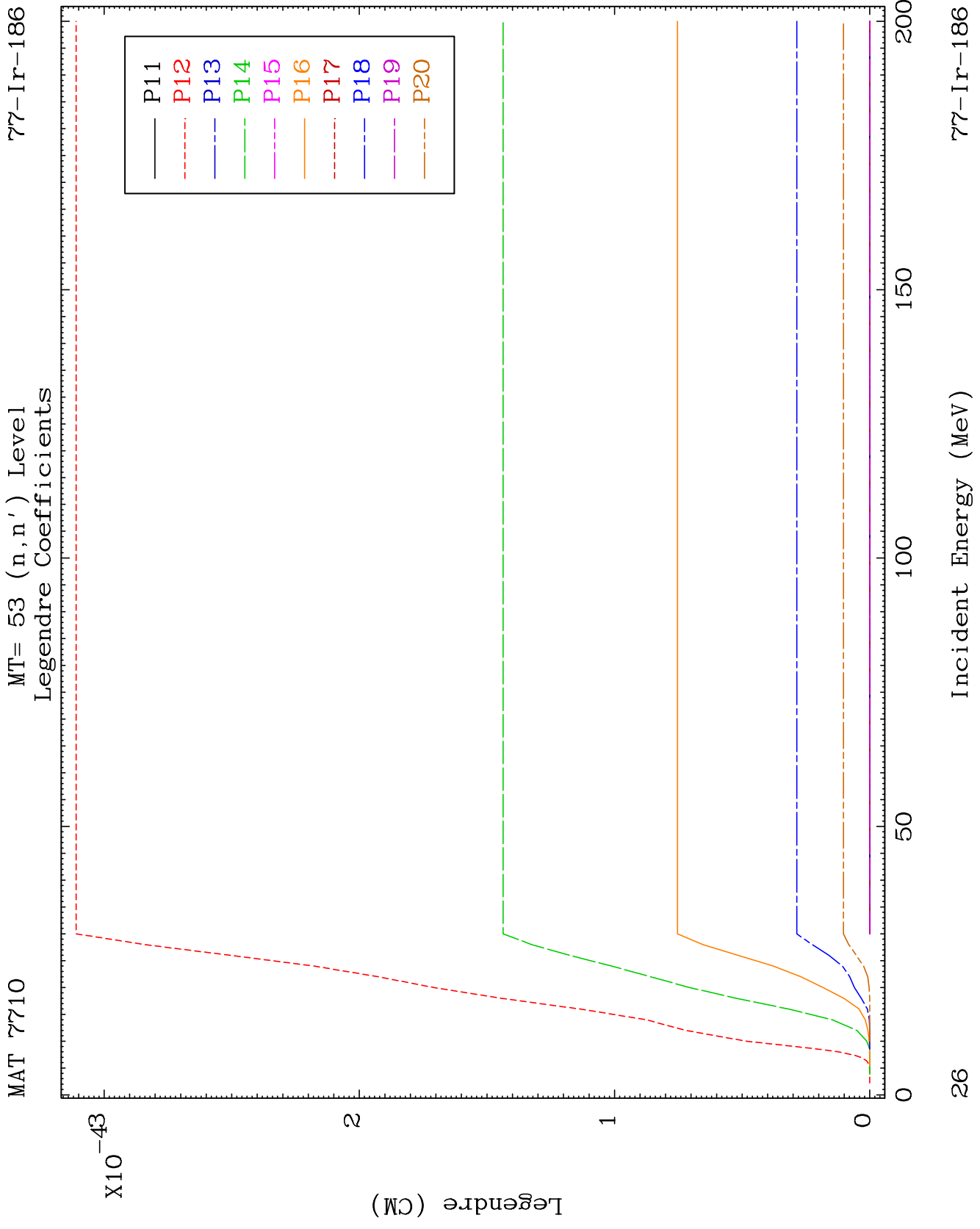
77-Ir-186



77-Ir-186

Incident Energy (MeV)

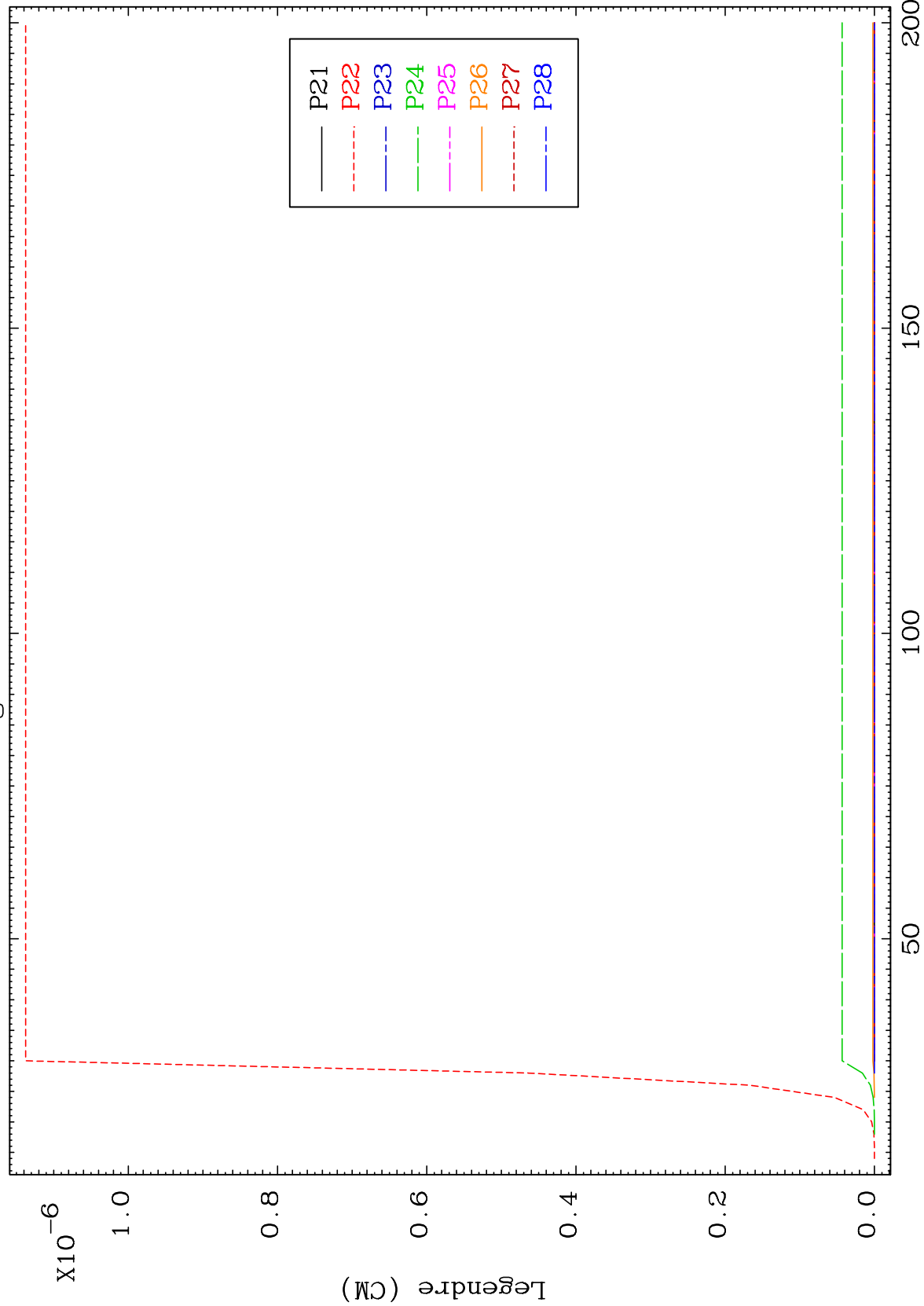
25



MAT 7710

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

77-Ir-186



27

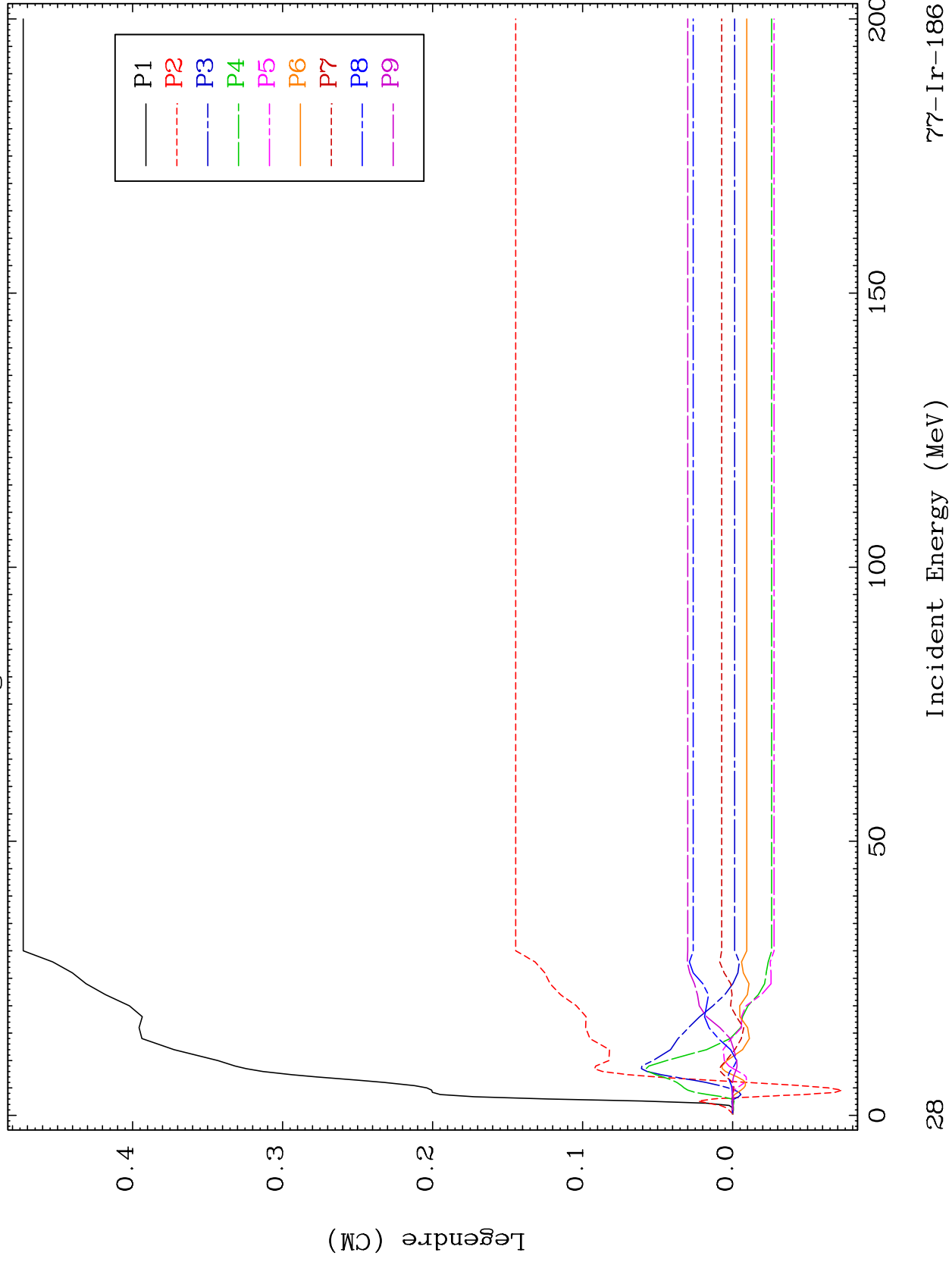
Incident Energy (MeV)

77-Ir-186

MAT 7710

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

77-Ir-186



77-Ir-186

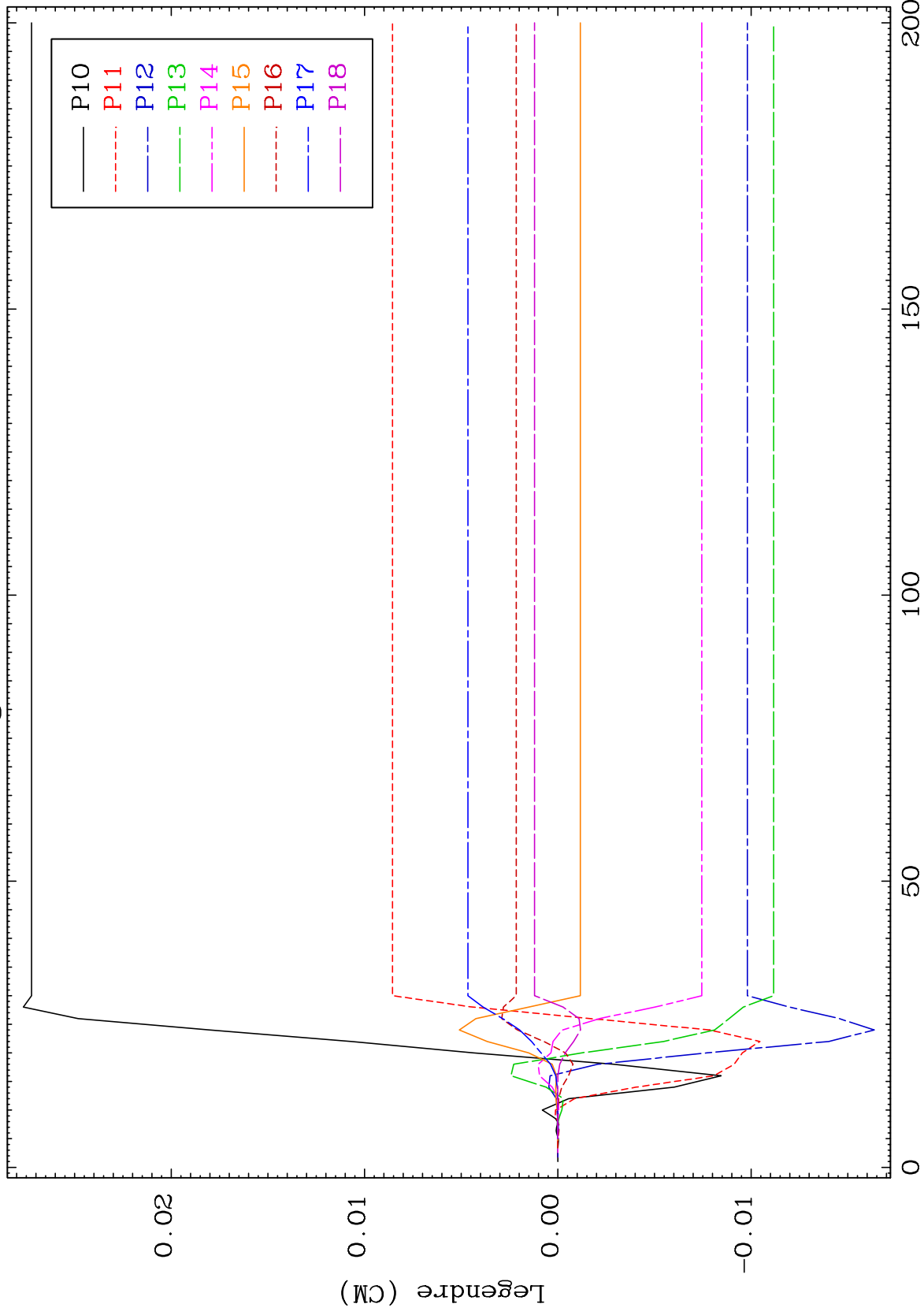
Incident Energy (MeV)

28

MAT 7710

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

77-Ir-186



29

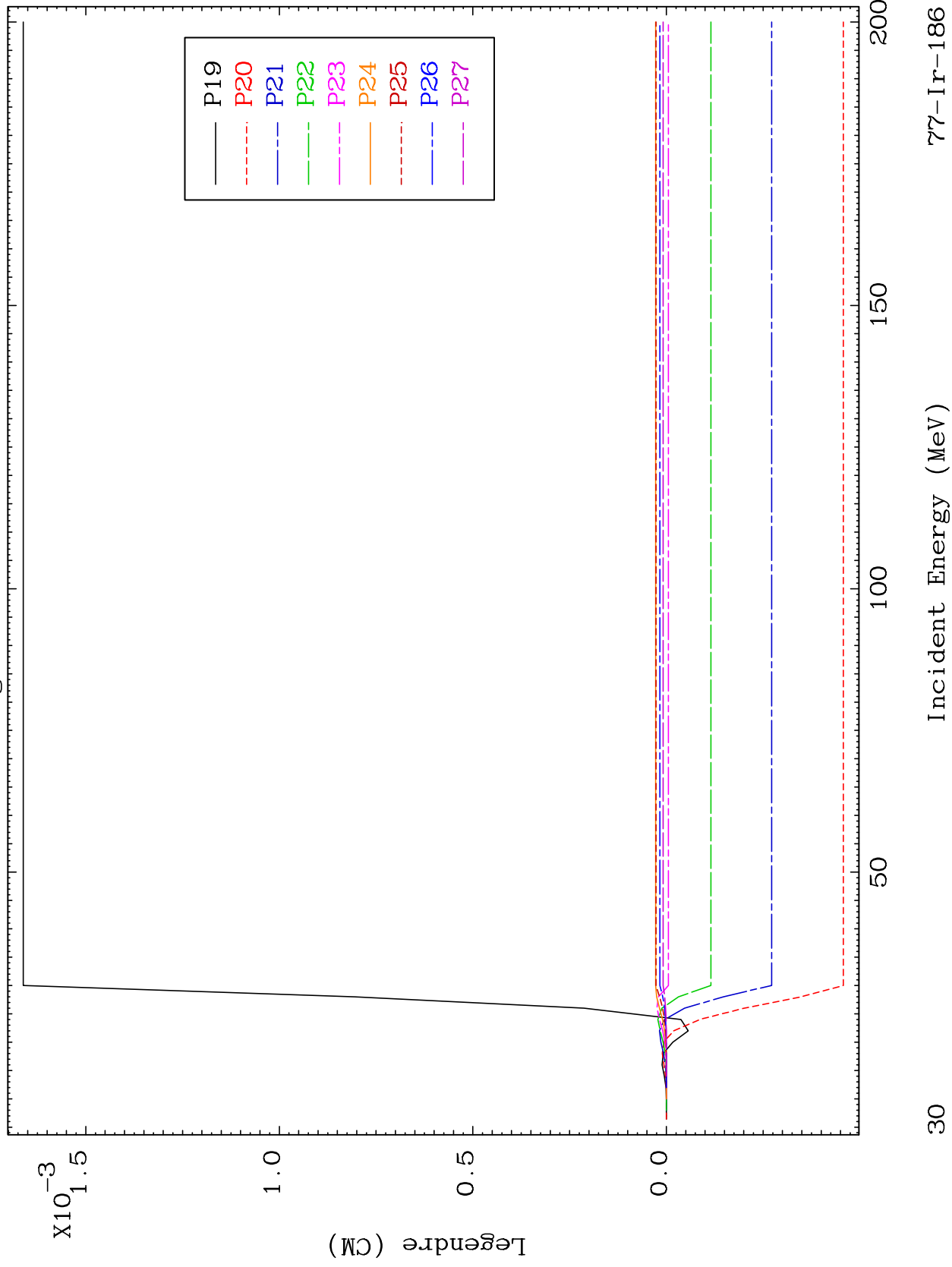
Incident Energy (MeV)

77-Ir-186

MAT 7710

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

77-Ir-186



30

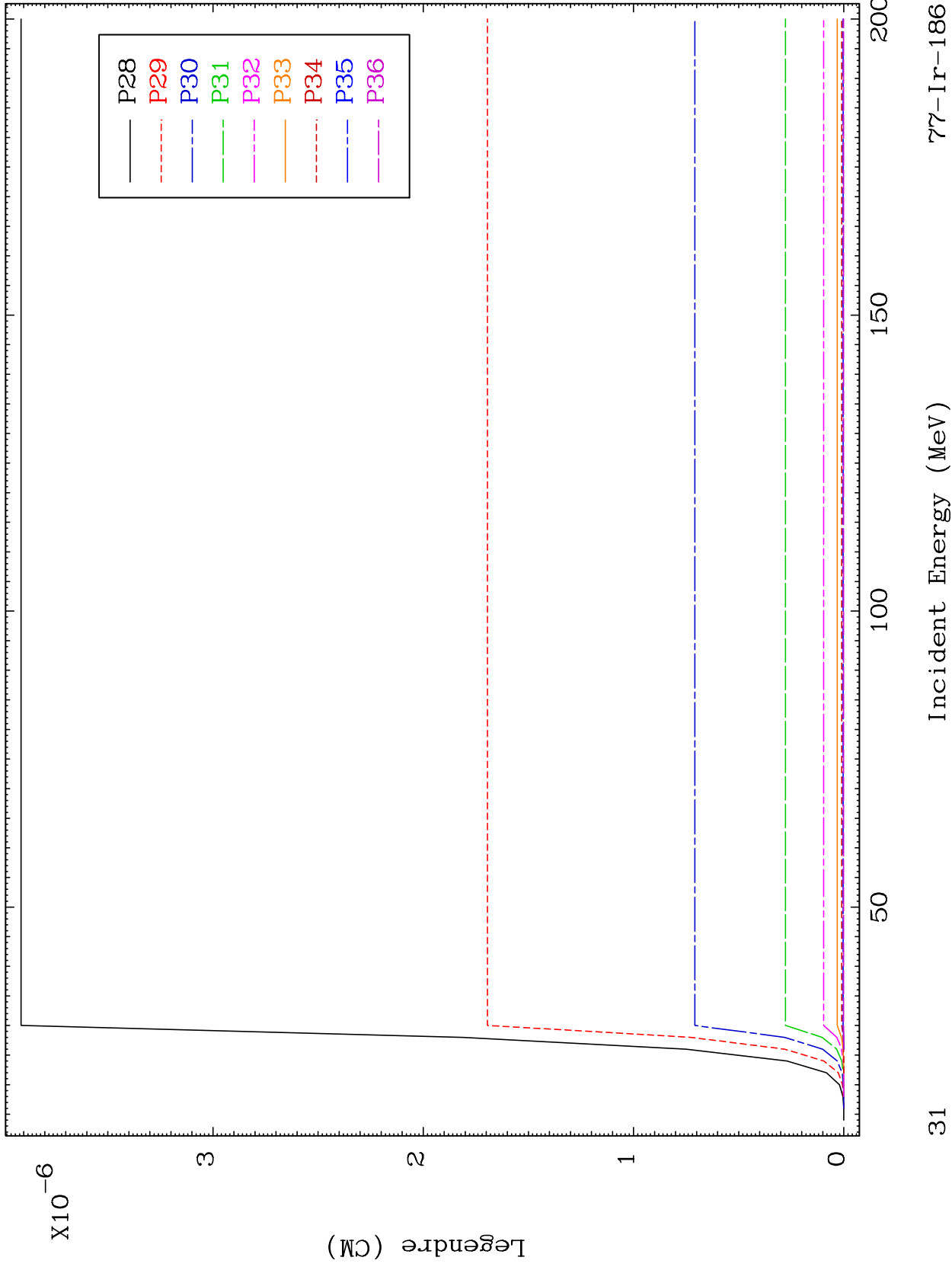
Incident Energy (MeV)

77-Ir-186

MAT 7710

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

77-Ir-186

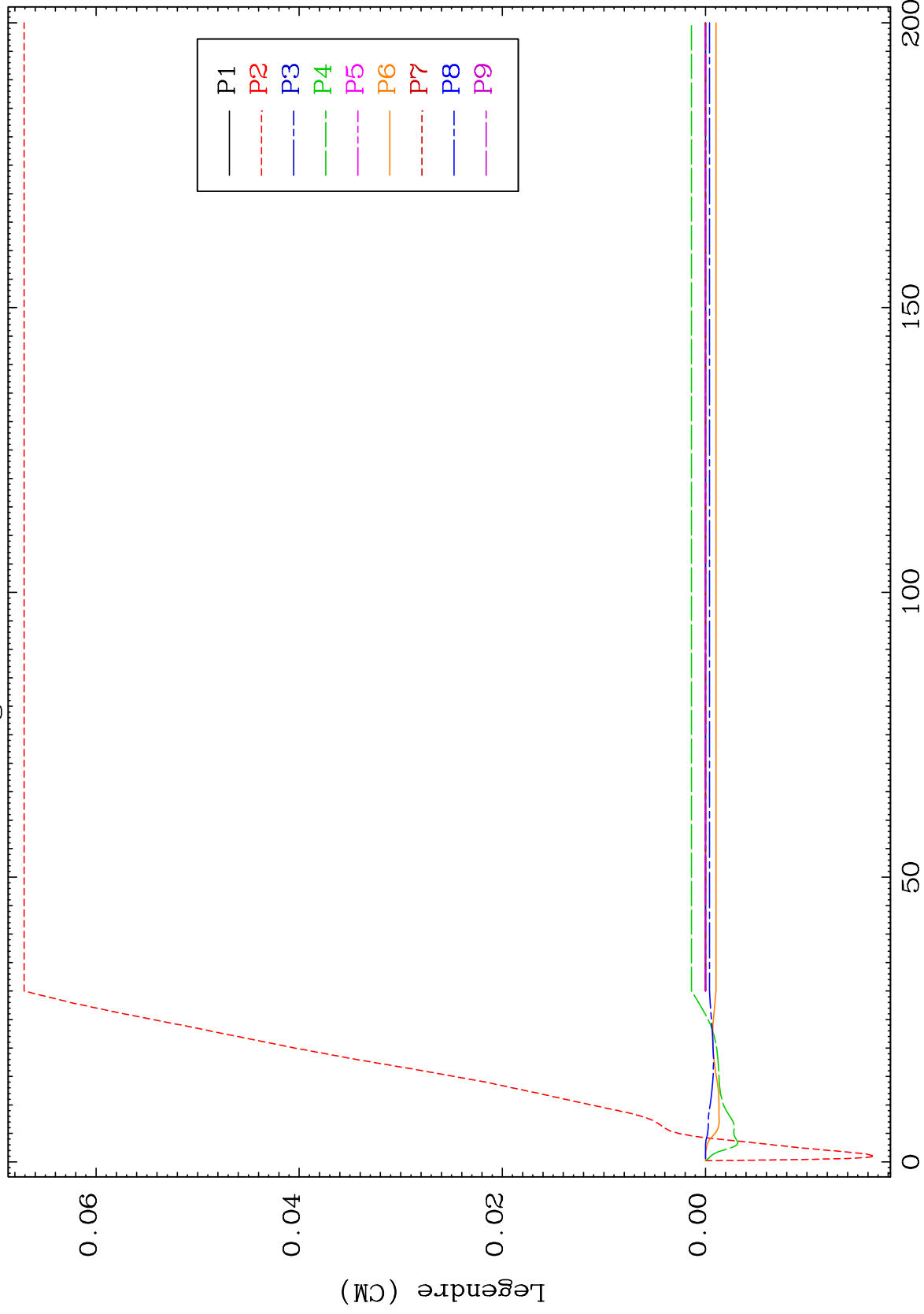




MAT 7710

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

77-Ir-186



32

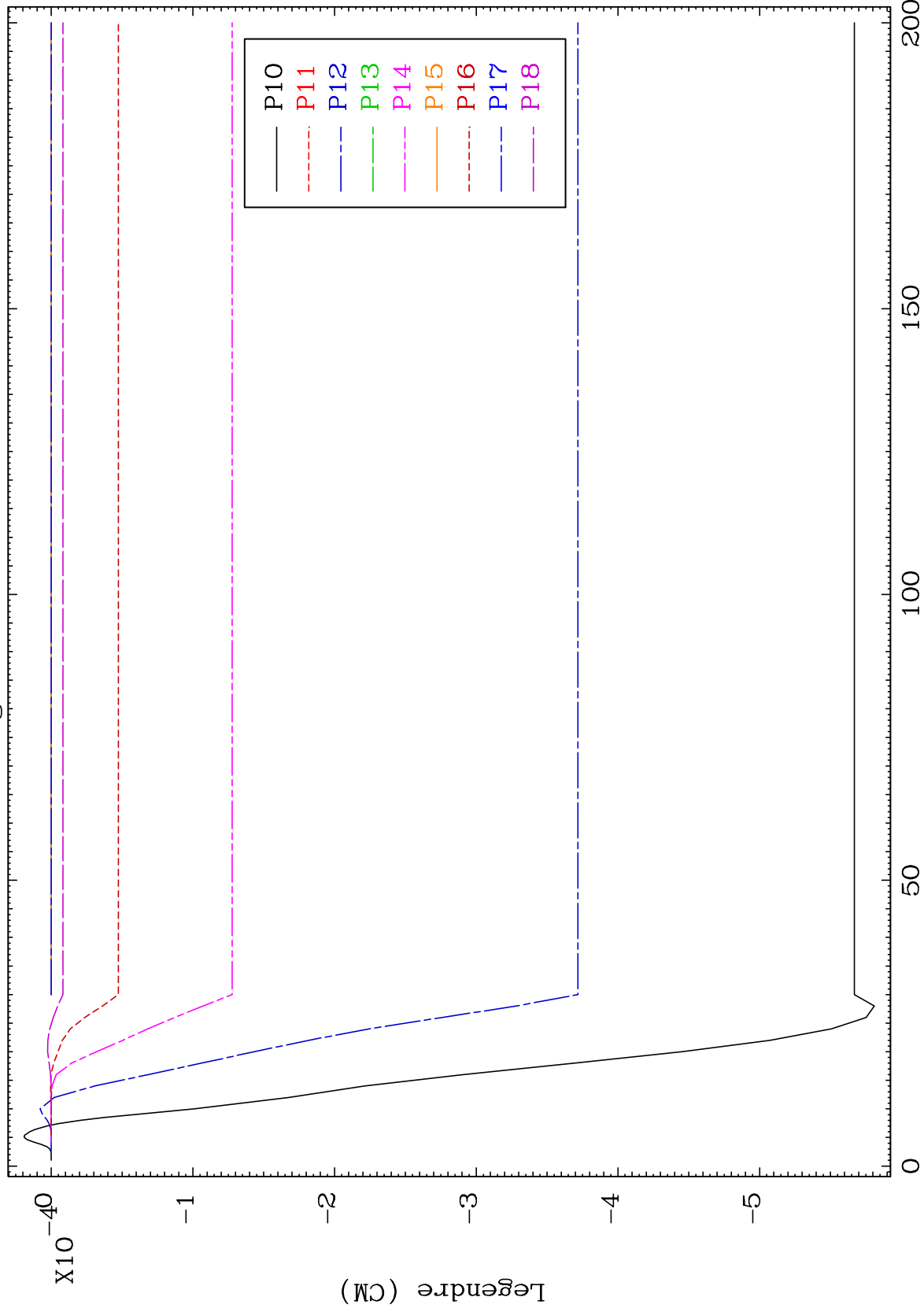
Incident Energy (MeV)

77-Ir-186

MAT 7710

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

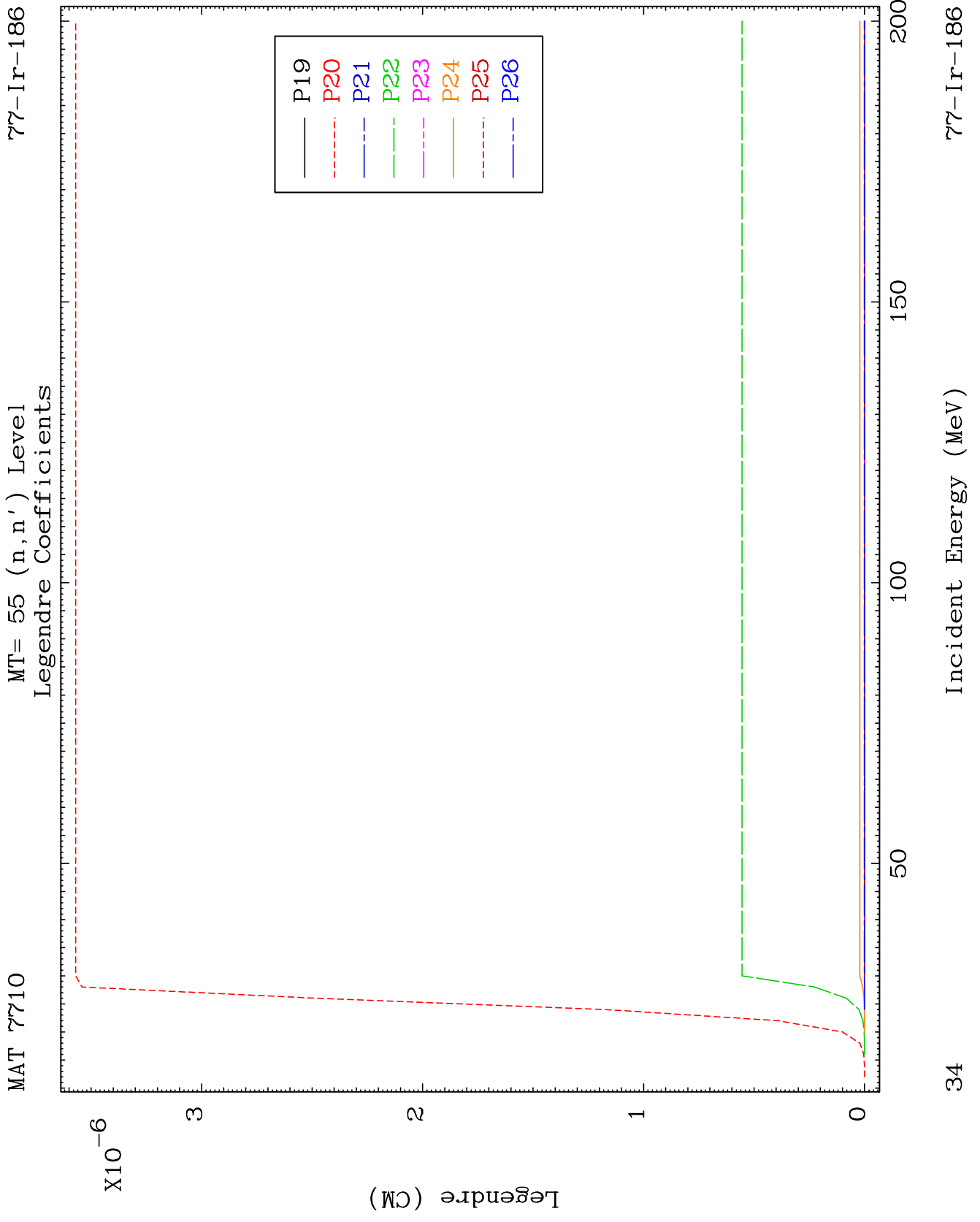
77-Ir-186

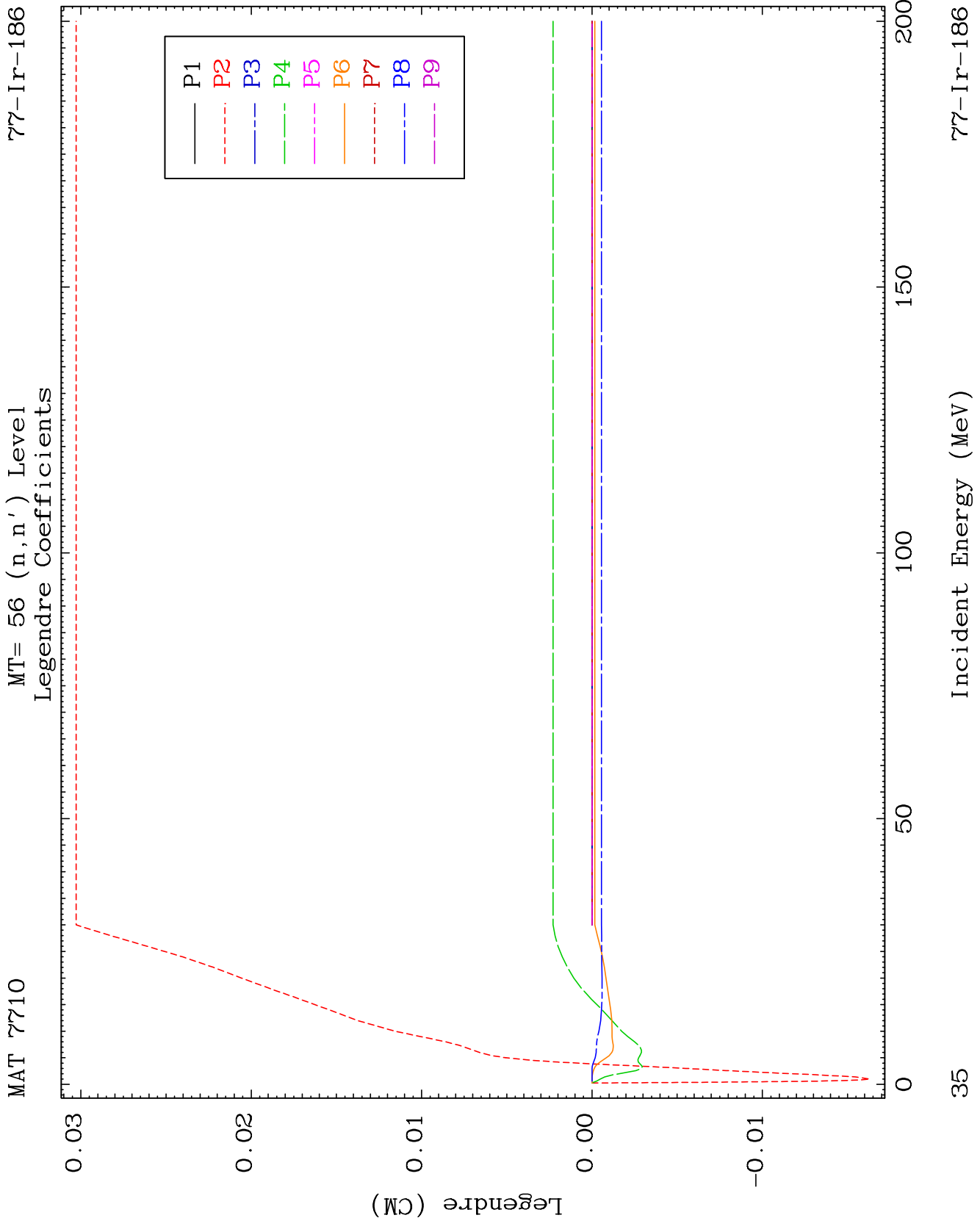


33

Incident Energy (MeV)

77-Ir-186

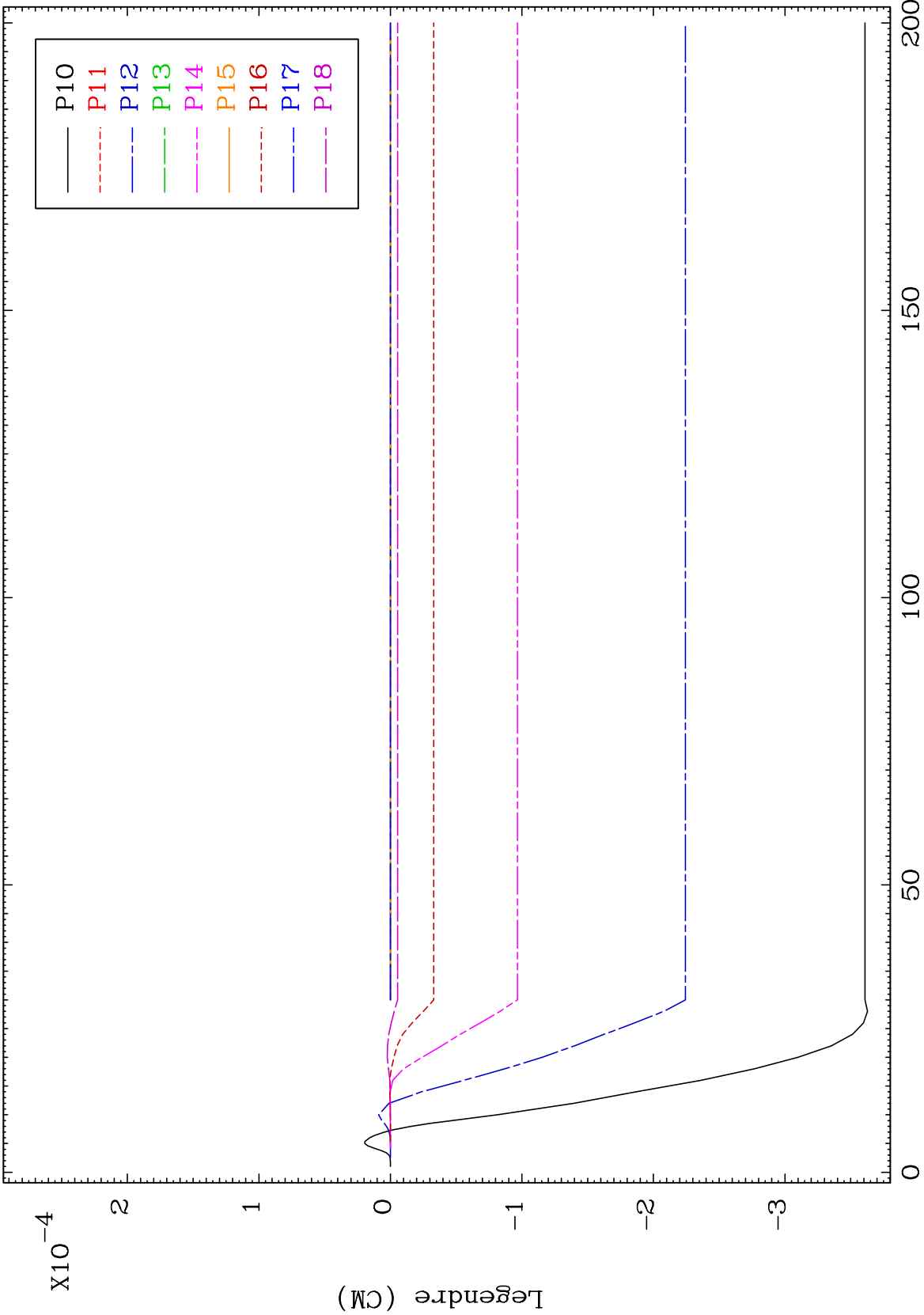




MAT 7710

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

77-Ir-186



36

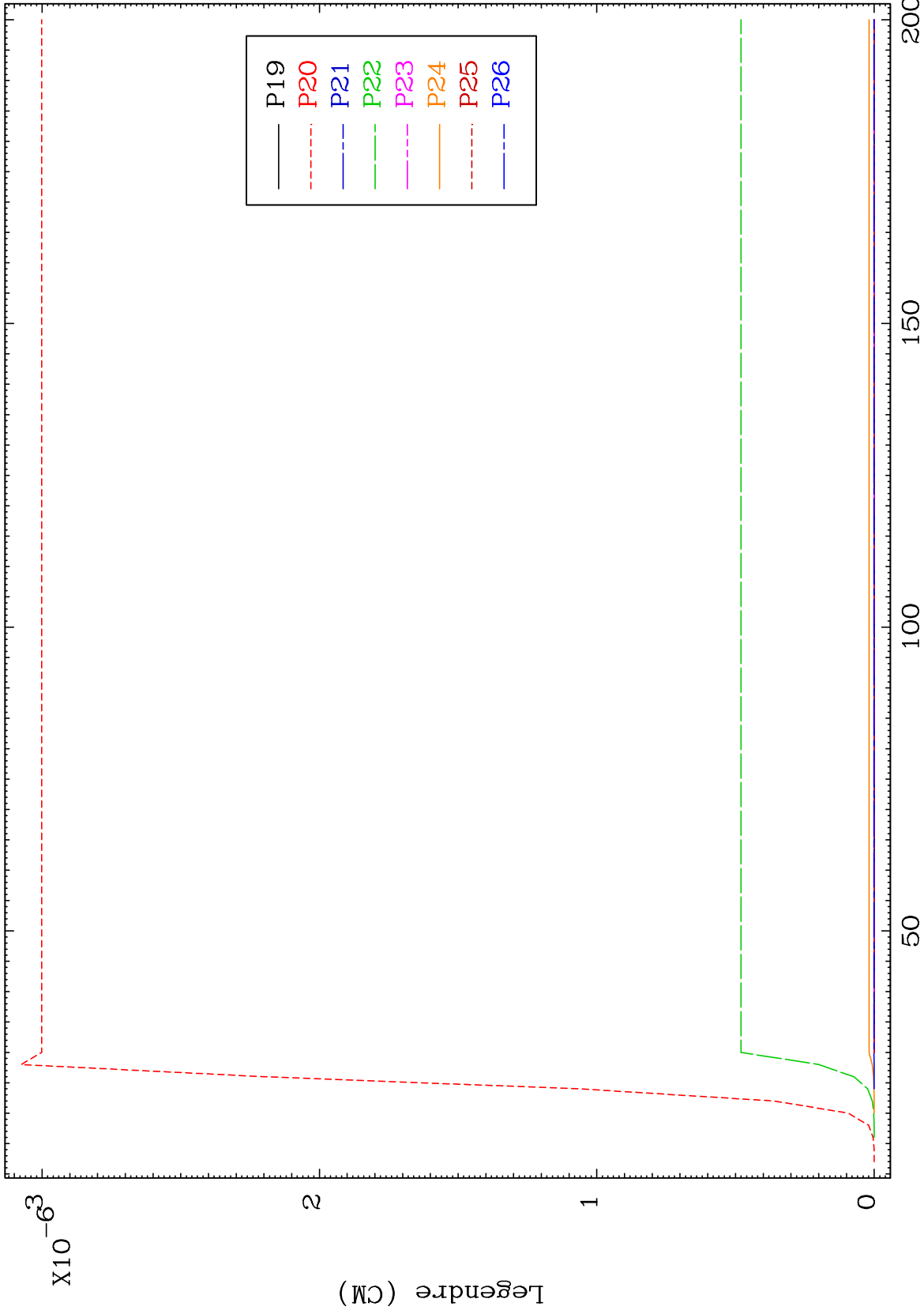
Incident Energy (MeV)

77-Ir-186

MAT 7710

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

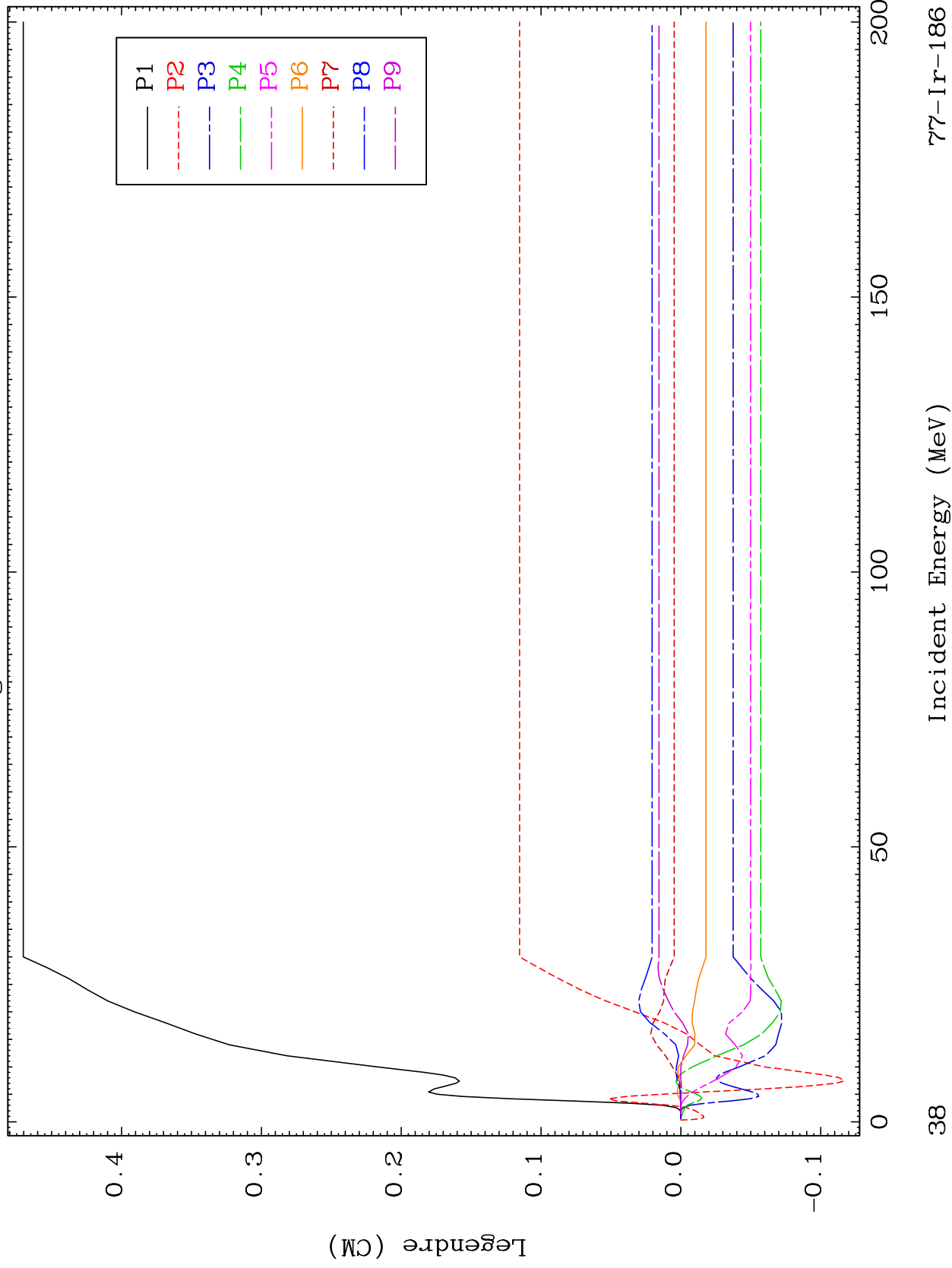
77-Ir-186



37

Incident Energy (MeV)

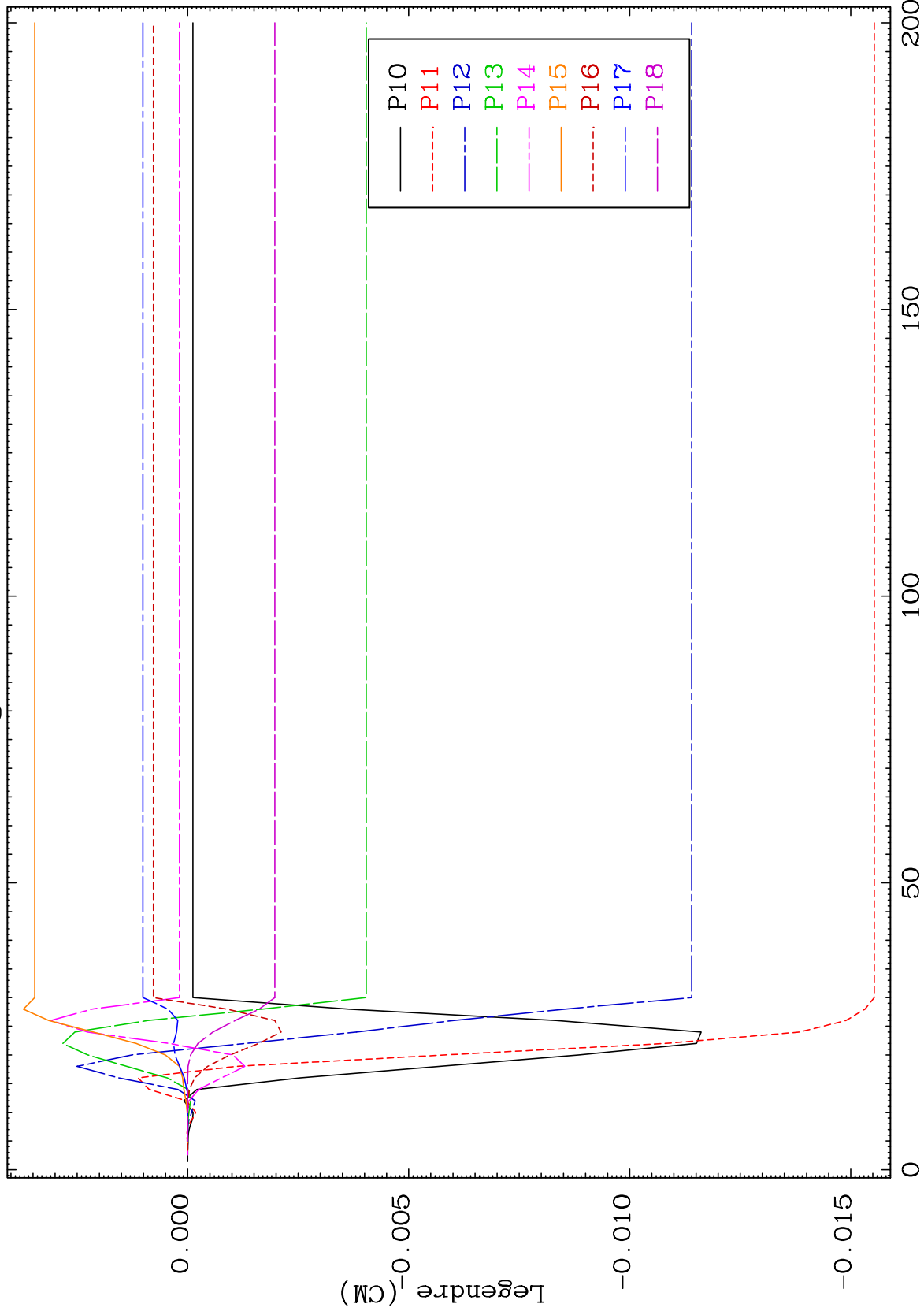
77-Ir-186



MAT 7710

MT= 57 (n,n') Level  
Legendre Coefficients

77-Ir-186



39

Incident Energy (MeV)

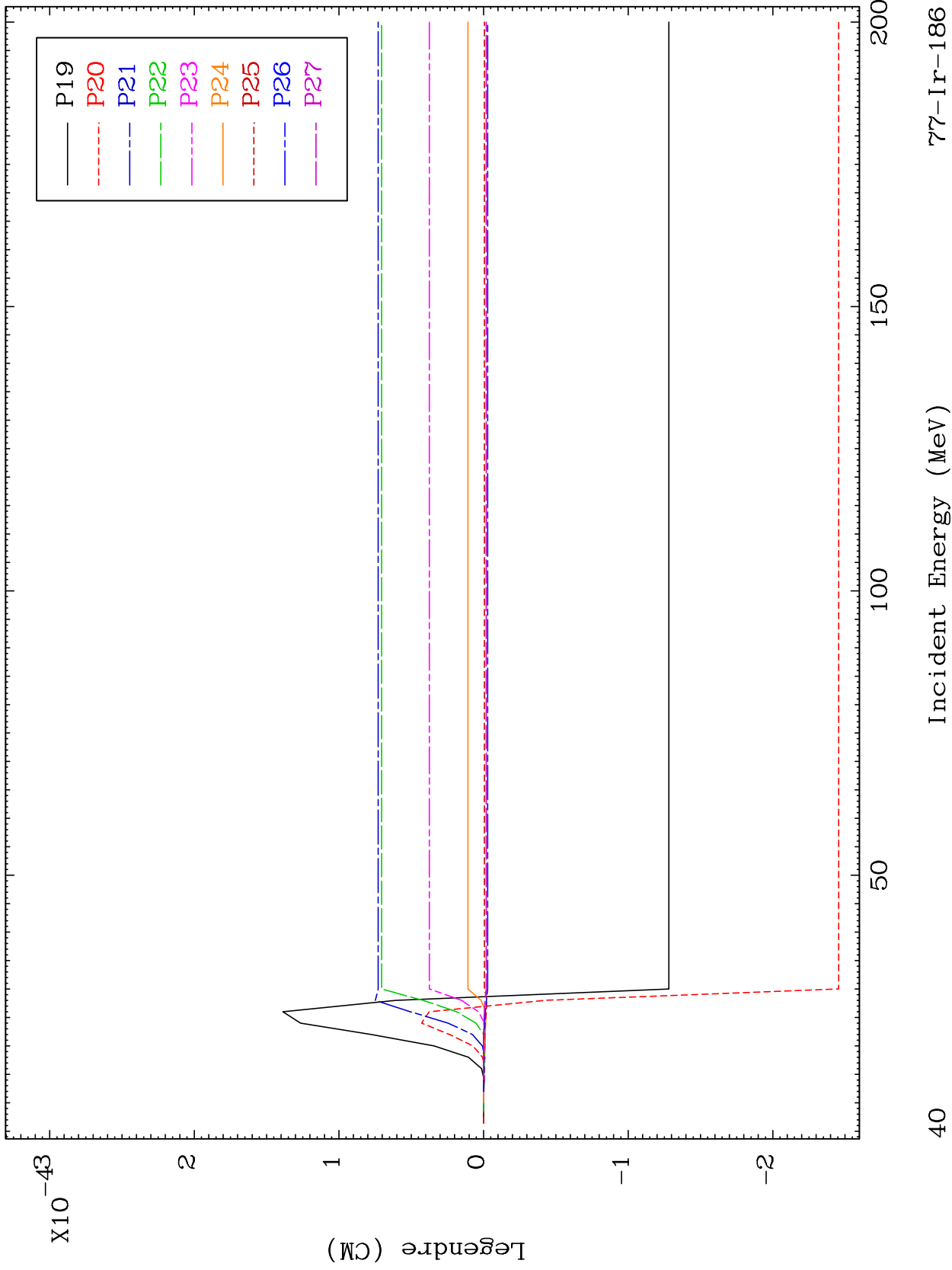
77-Ir-186

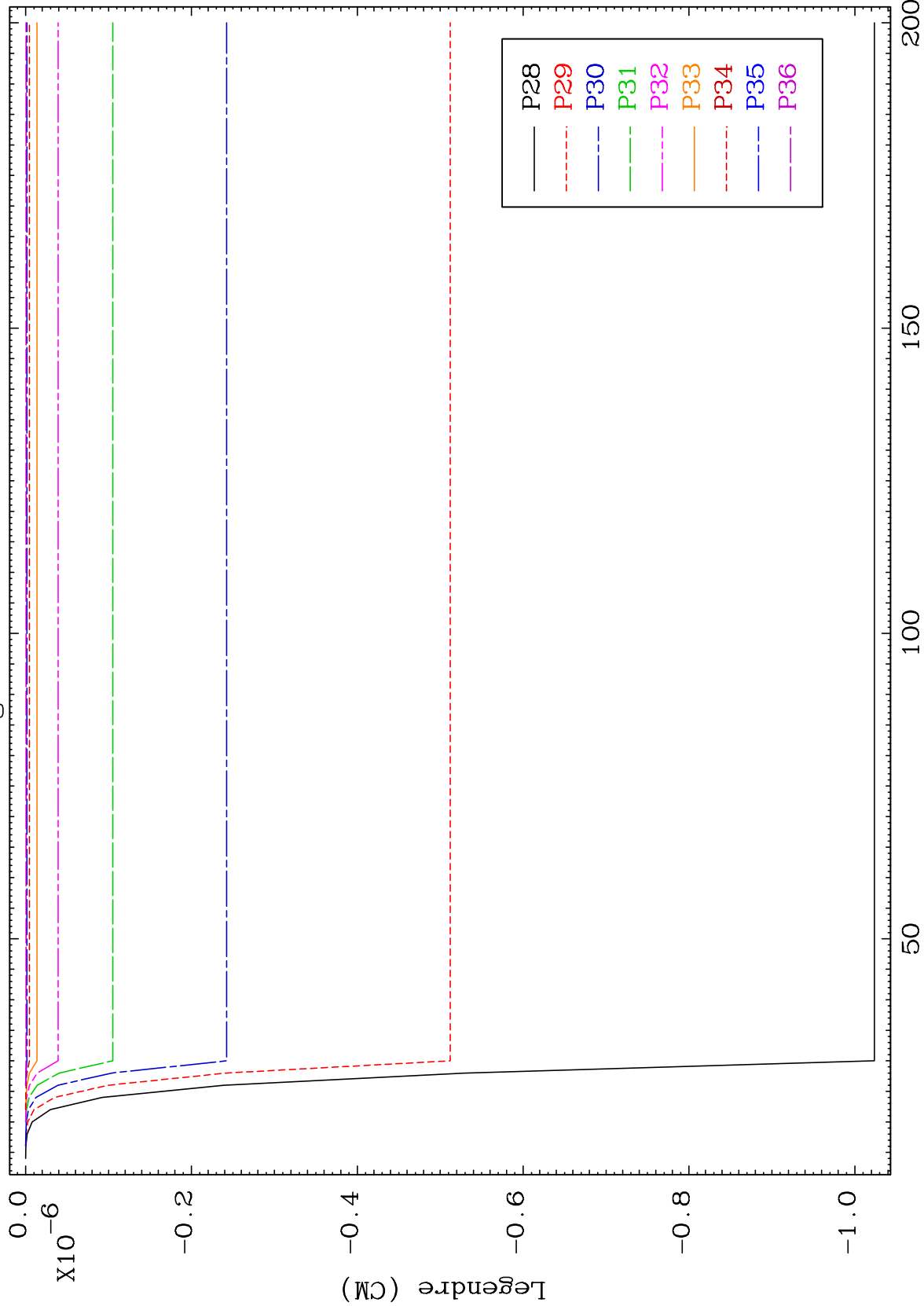


MAT 7710

MT= 57 (n,n') Level  
Legendre Coefficients

77-Ir-186

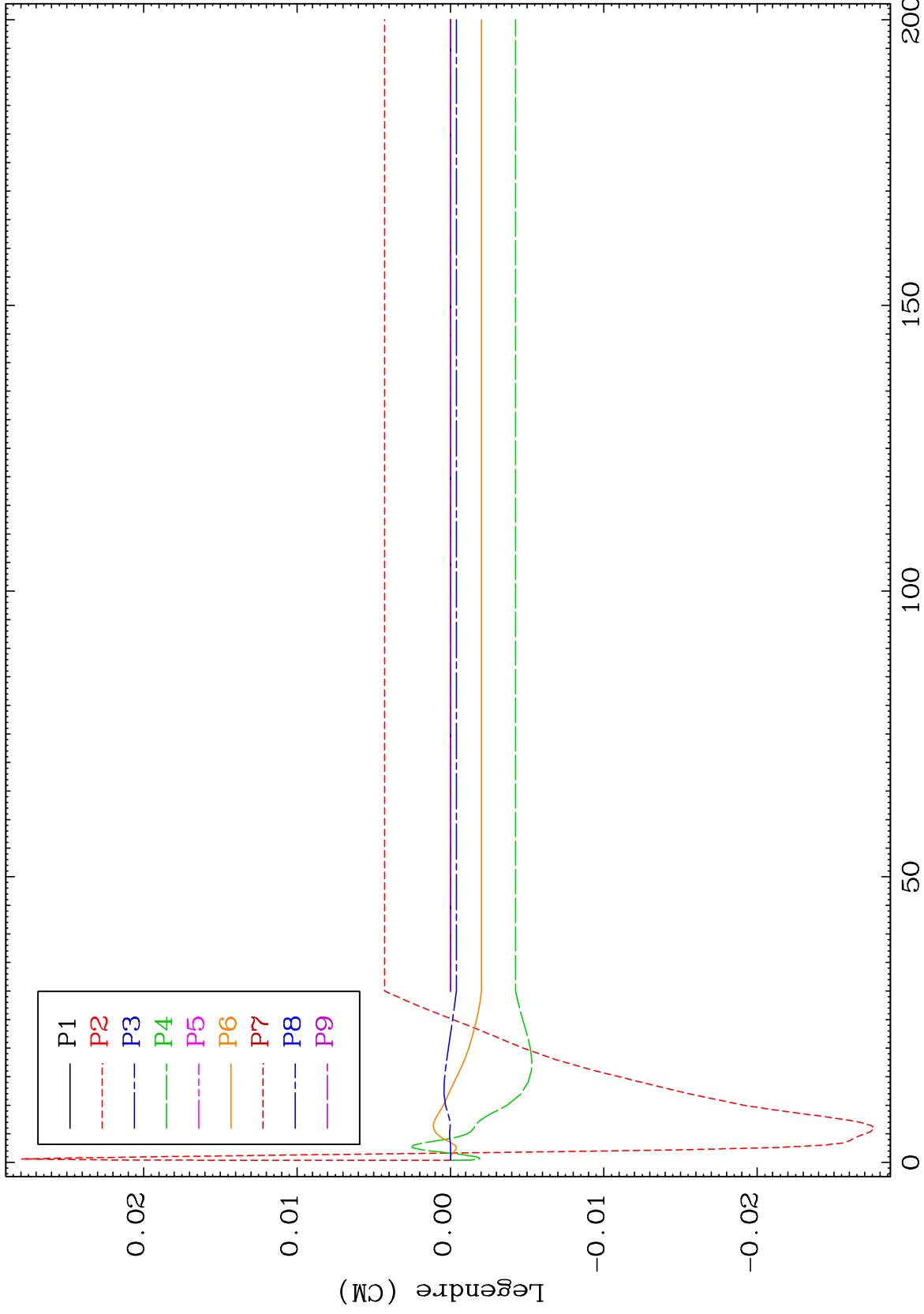




MAT 7710

MT= 58 (n,n') Level  
Legendre Coefficients

77-Ir-186



77-Ir-186

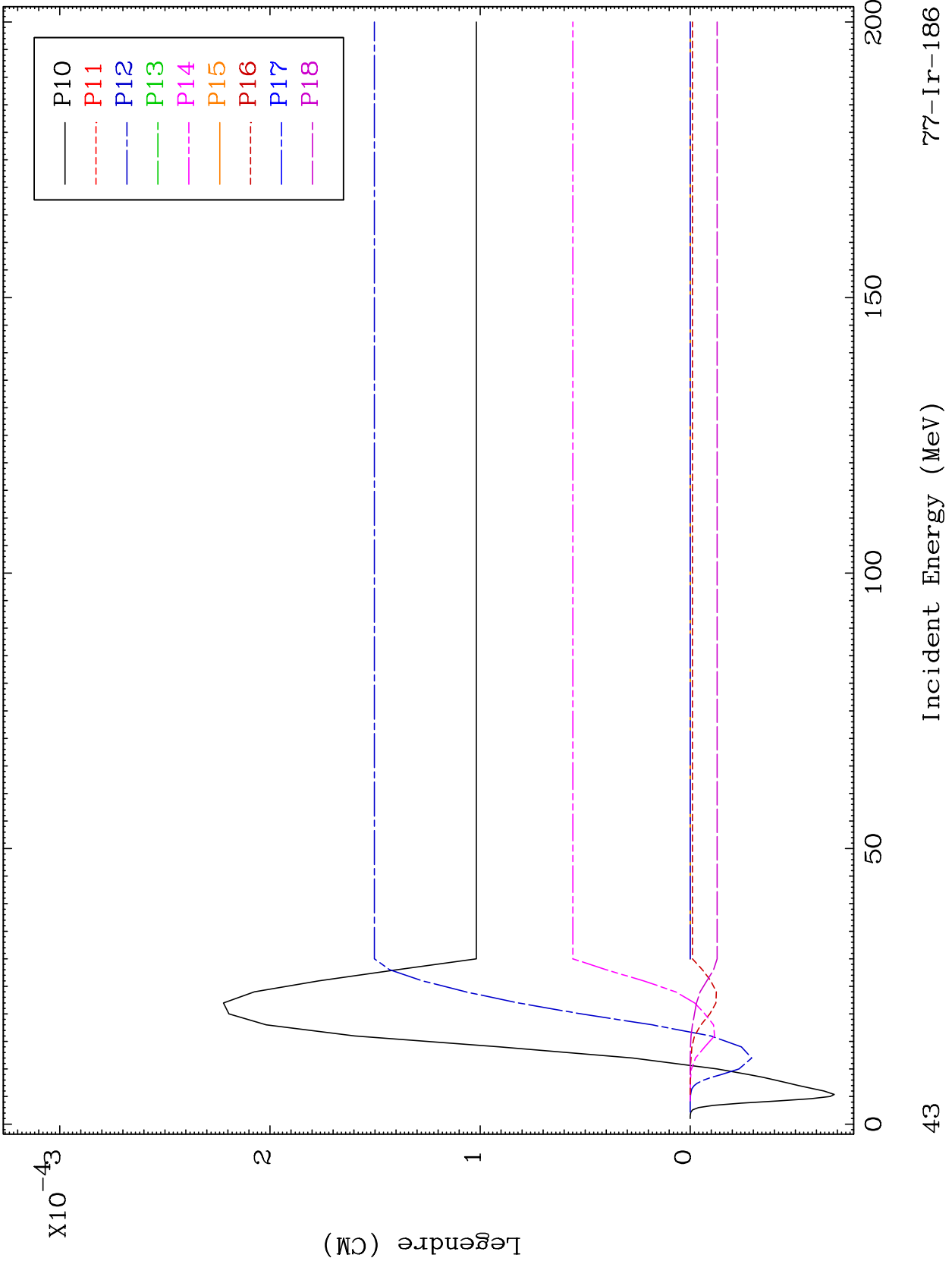
Incident Energy (MeV)

42

MAT 7710

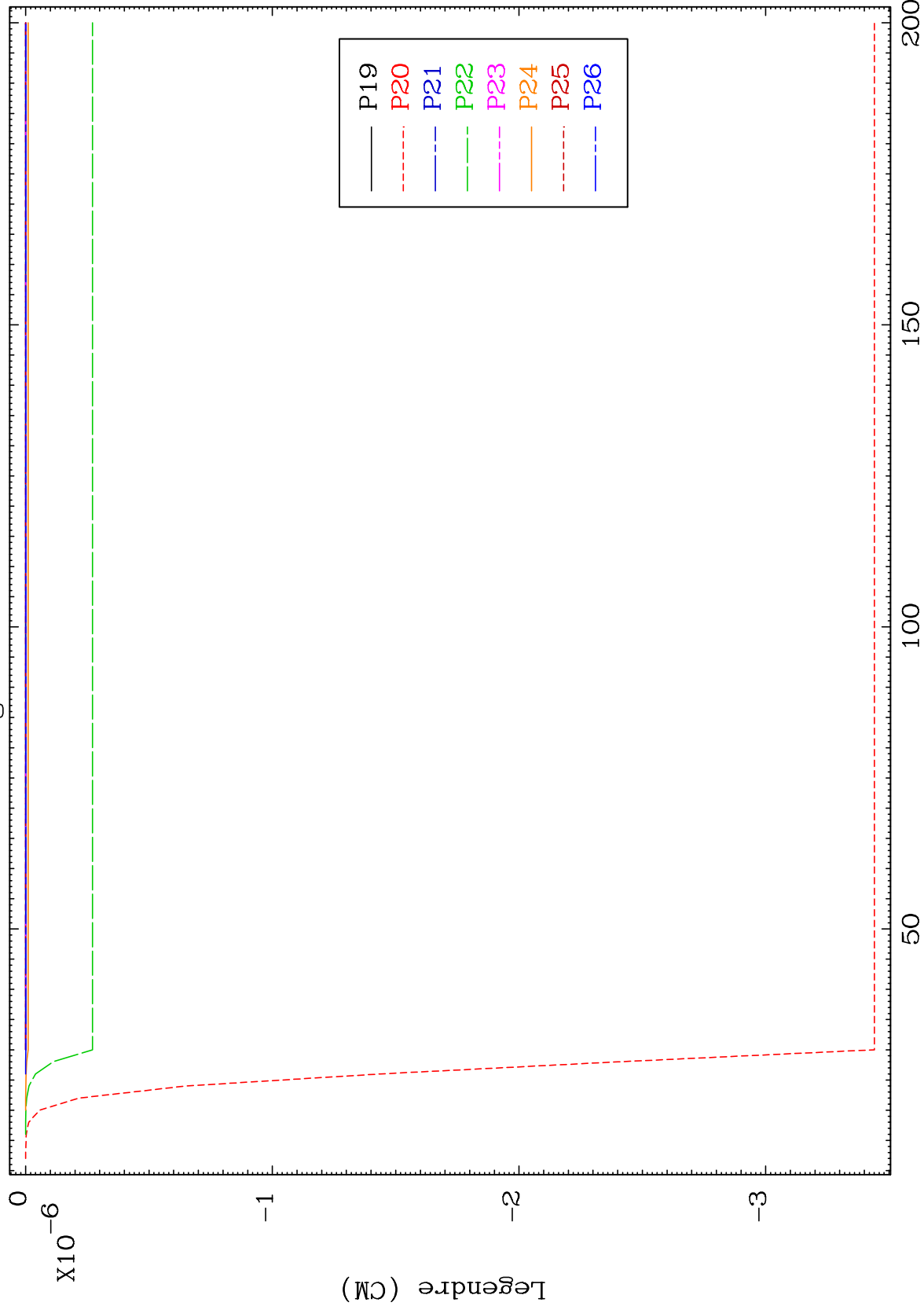
MT= 58 (n,n') Level Legendre Coefficients

77-Ir-186



43

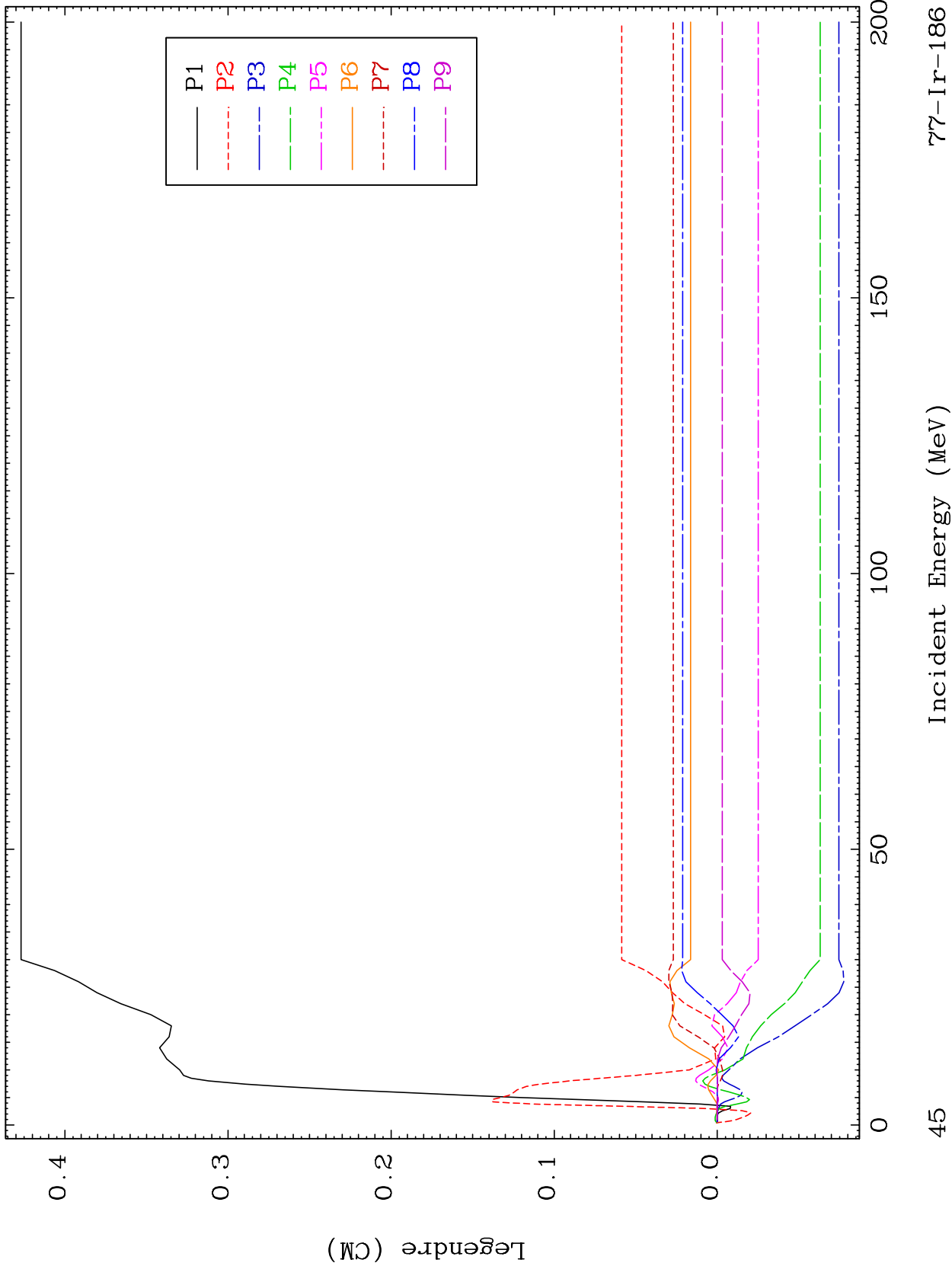
77-Ir-186



MAT 7710

MT= 59 (n,n') Level  
Legendre Coefficients

77-Ir-186



77-Ir-186

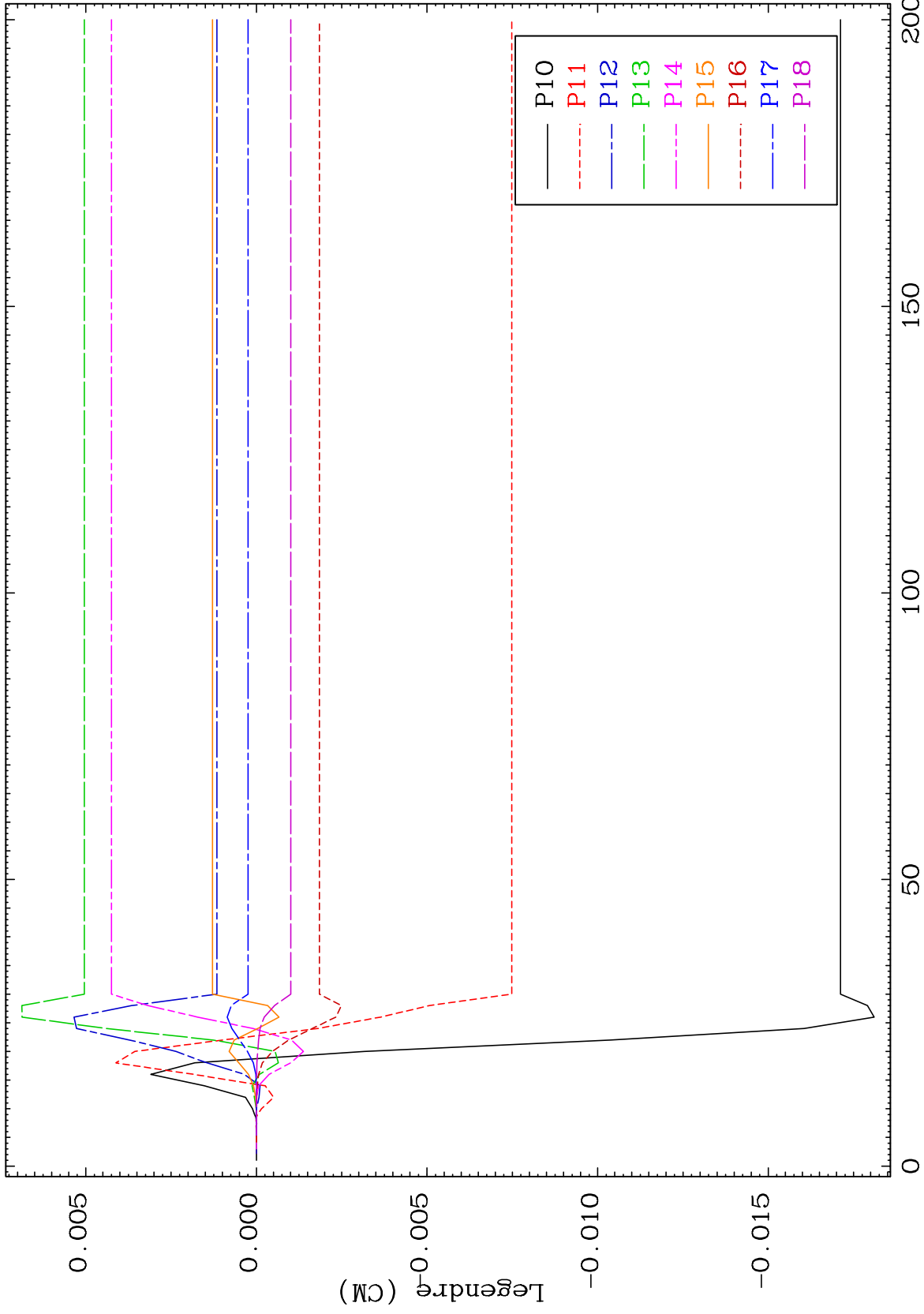
Incident Energy (MeV)

45

MAT 7710

MT= 59 (n,n') Level  
Legendre Coefficients

77-Ir-186



46

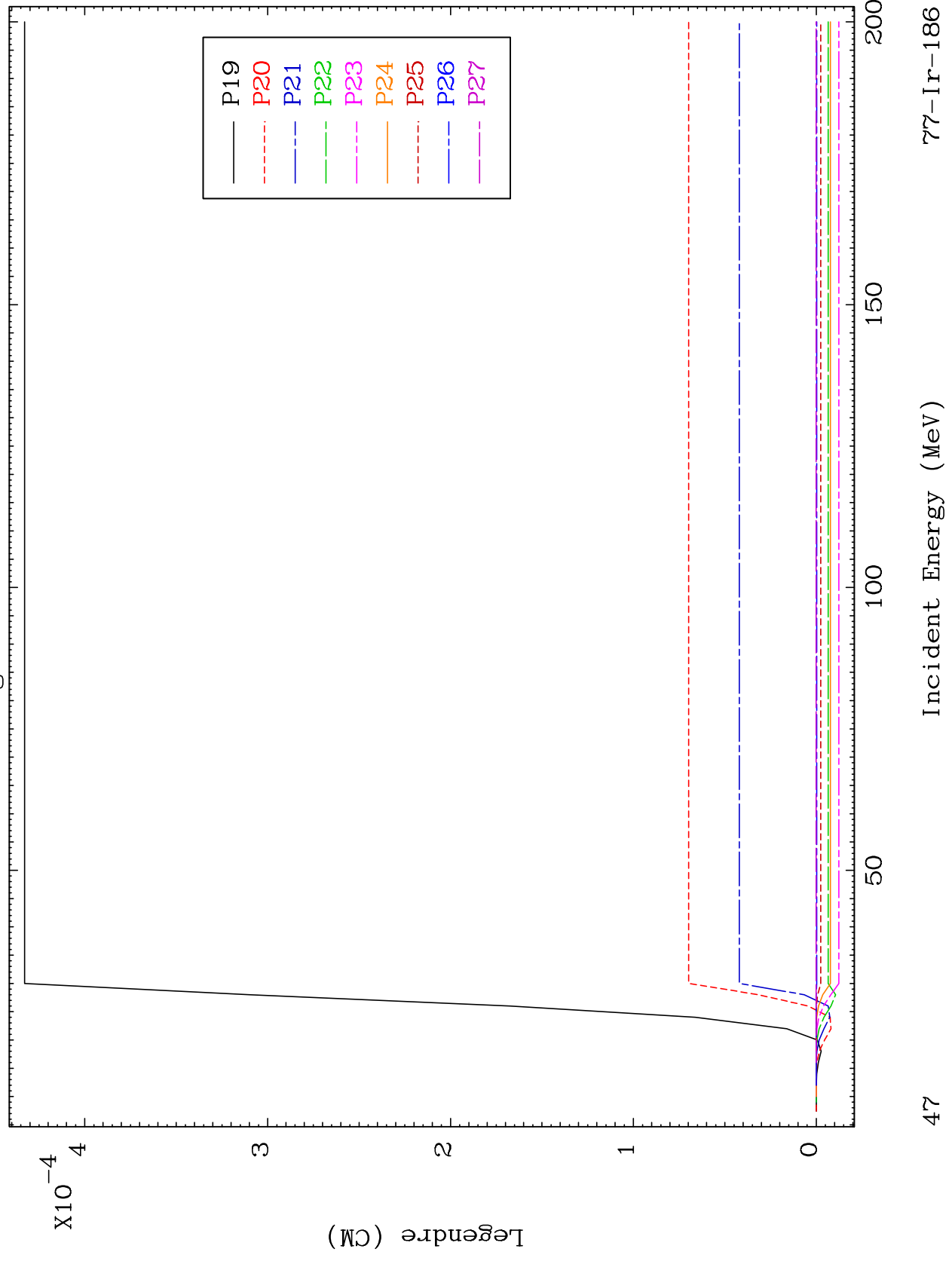
Incident Energy (MeV)

77-Ir-186

MAT 7710

MT= 59 (n,n') Level  
Legendre Coefficients

77-Ir-186

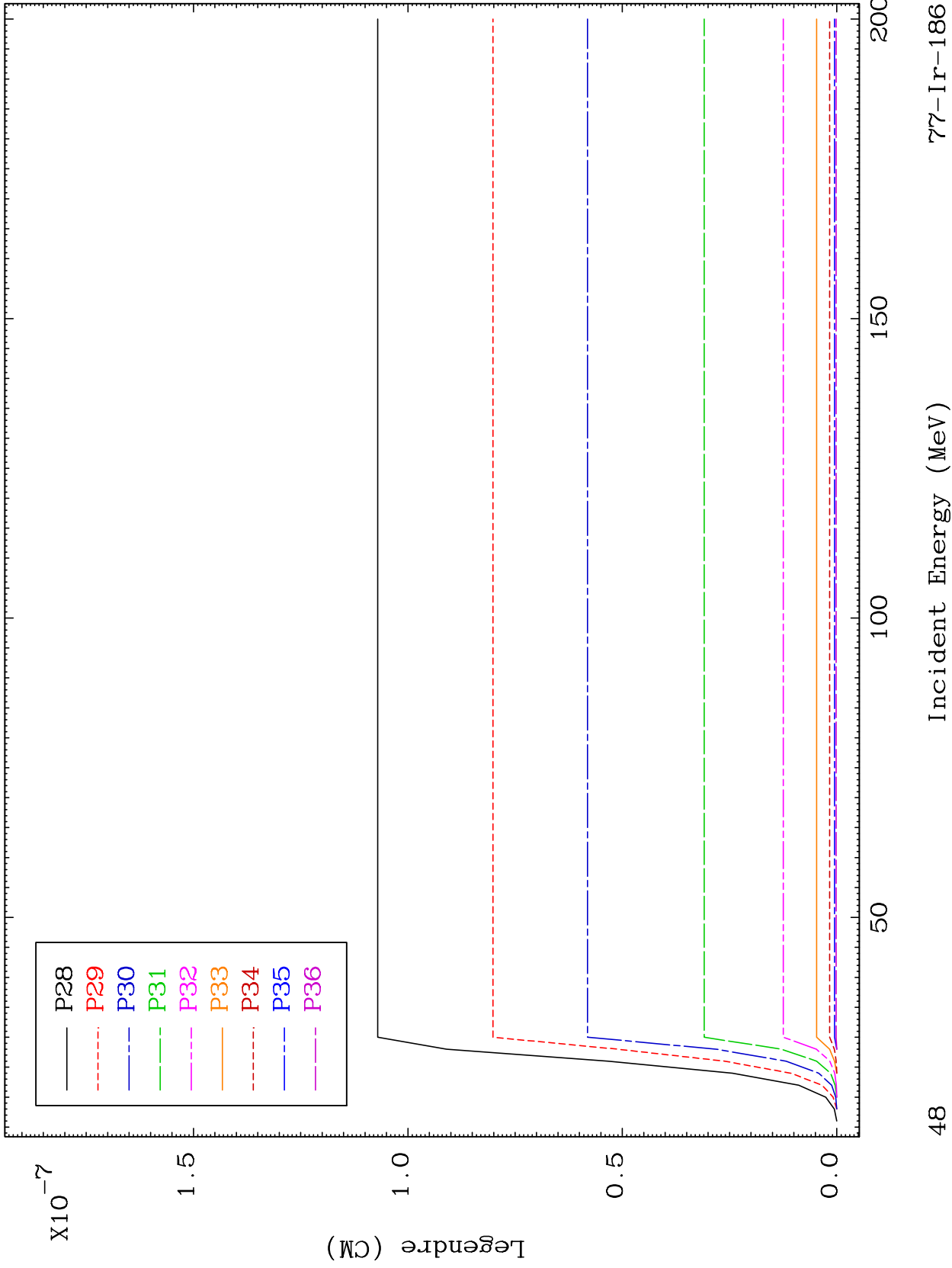




MAT 7710

MT= 59 (n,n') Level  
Legendre Coefficients

77-Ir-186



48

Incident Energy (MeV)

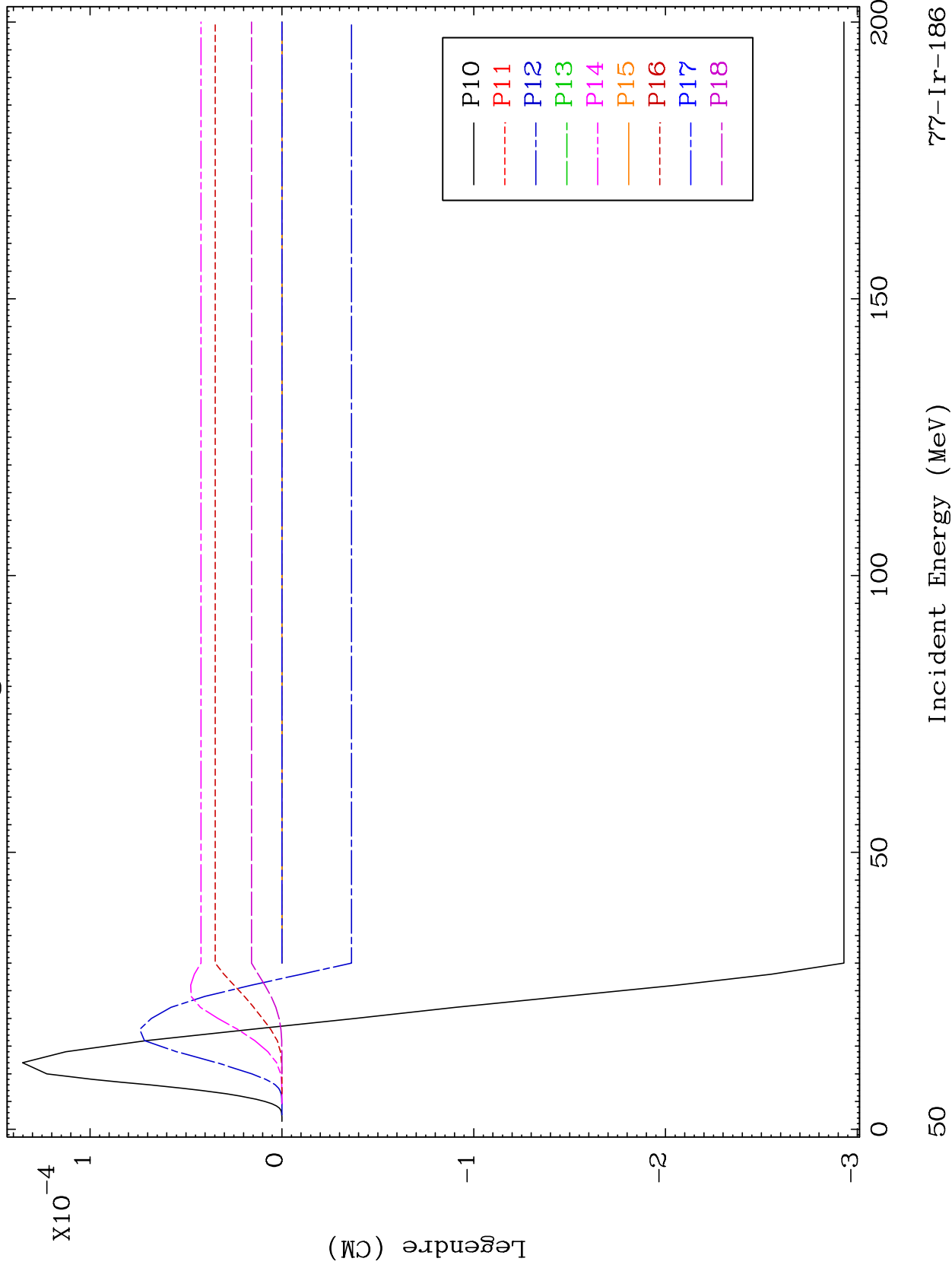
77-Ir-186



MAT 7710

MT= 60 (n,n') Level  
Legendre Coefficients

77-Ir-186



77-Ir-186

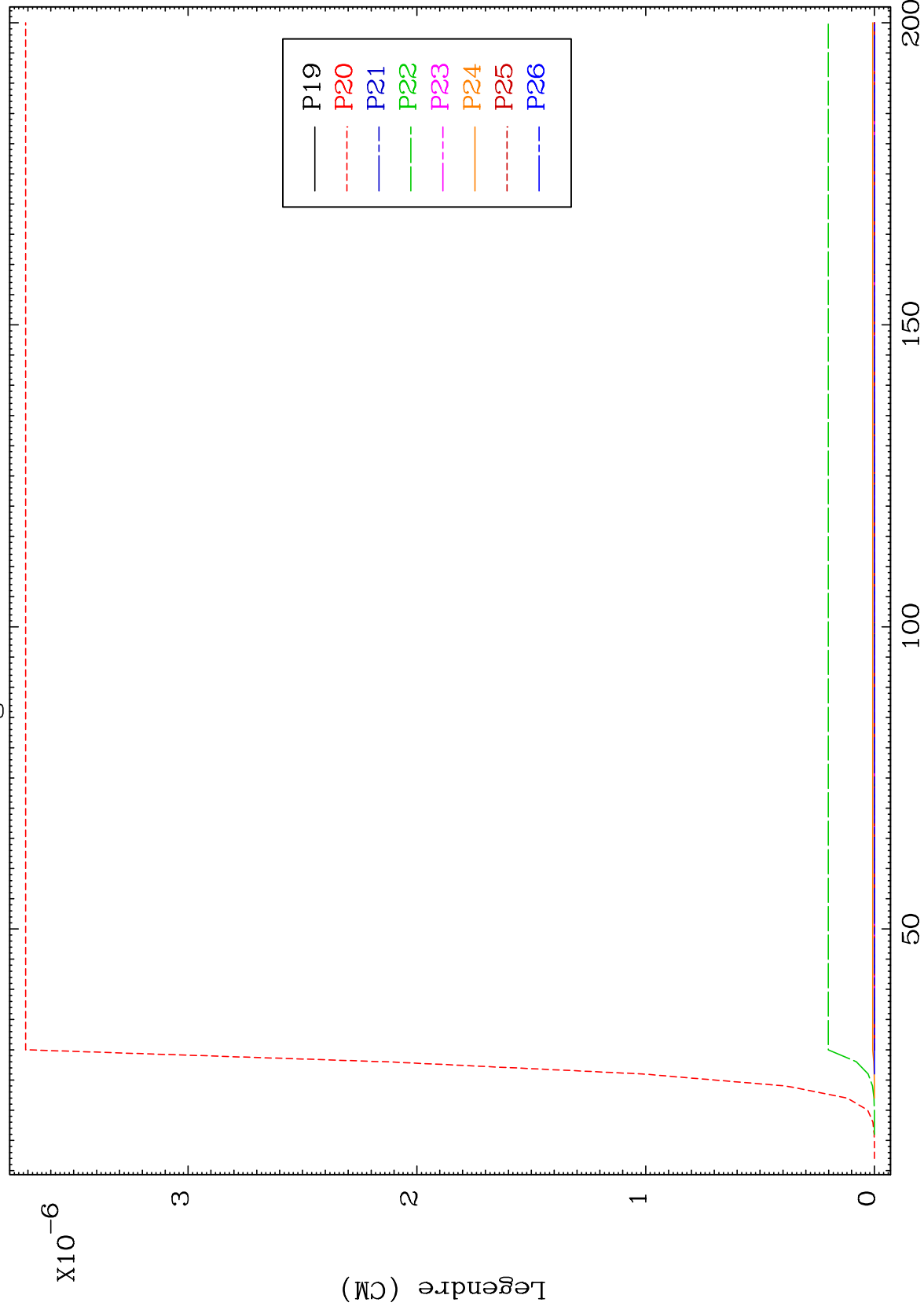
Incident Energy (MeV)

50

MAT 7710

MT= 60 (n,n') Level  
Legendre Coefficients

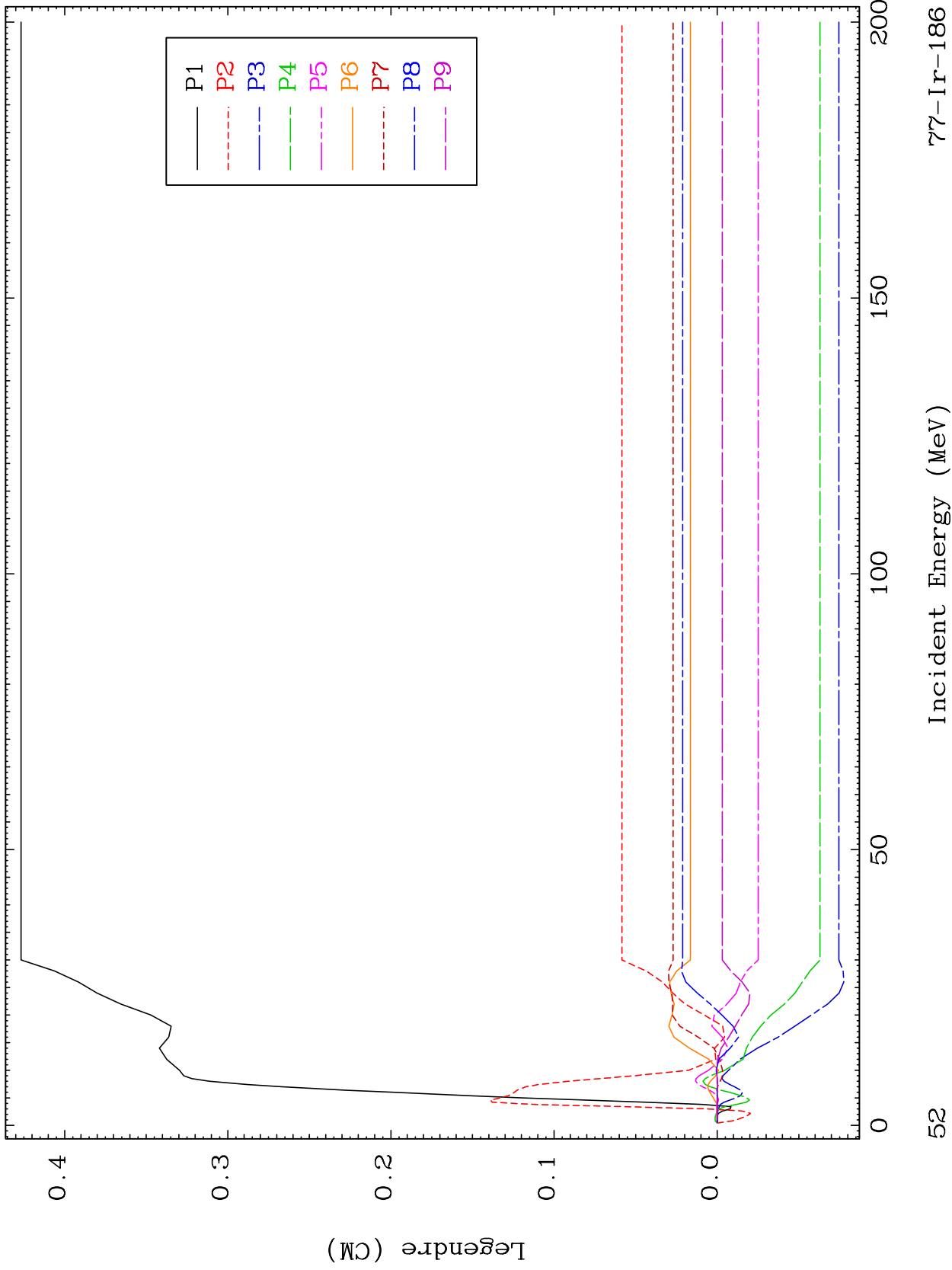
77-Ir-186



77-Ir-186

Incident Energy (MeV)

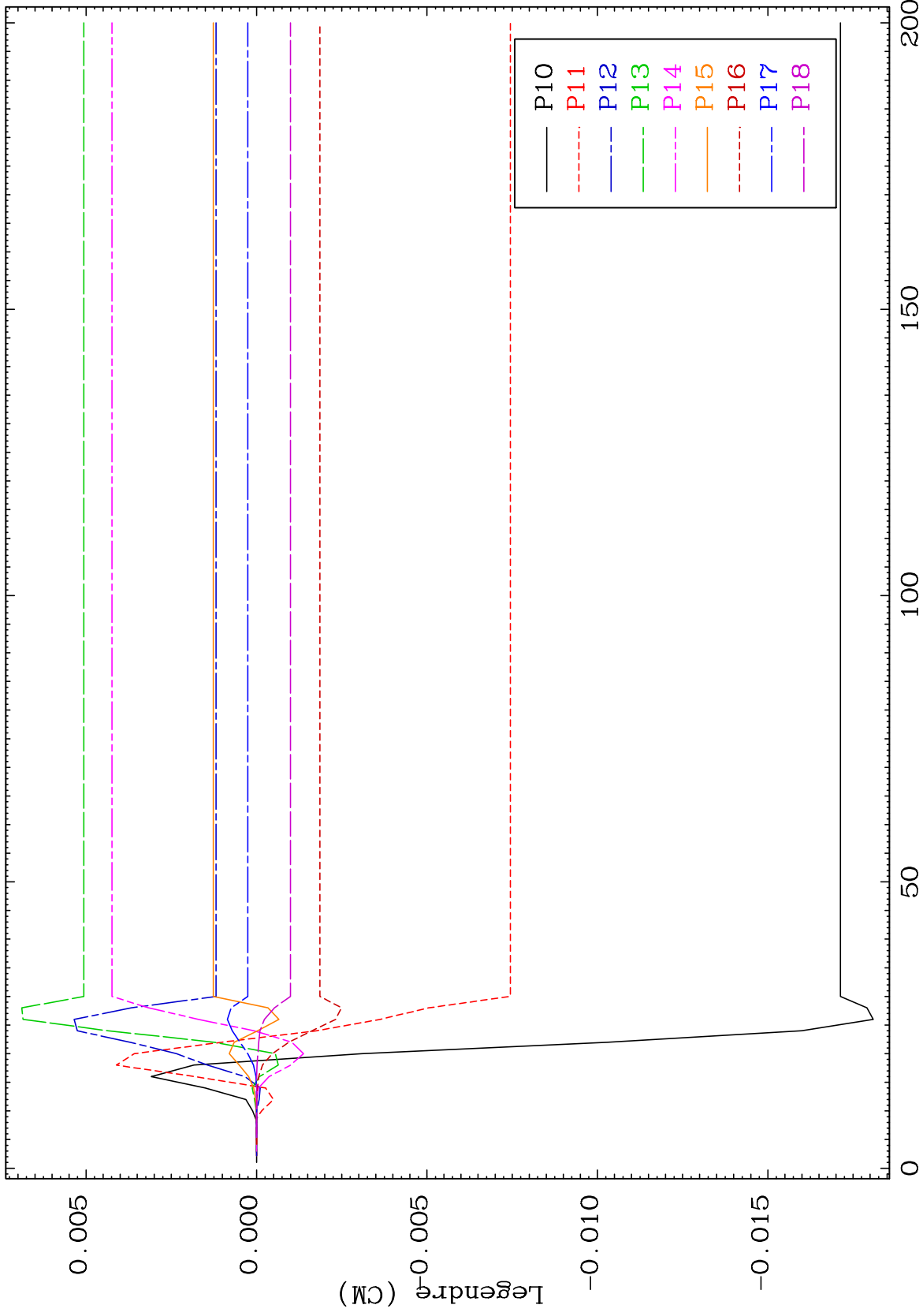
51



MAT 7710

MT= 61 (n,n') Level  
Legendre Coefficients

77-Ir-186



53

Incident Energy (MeV)

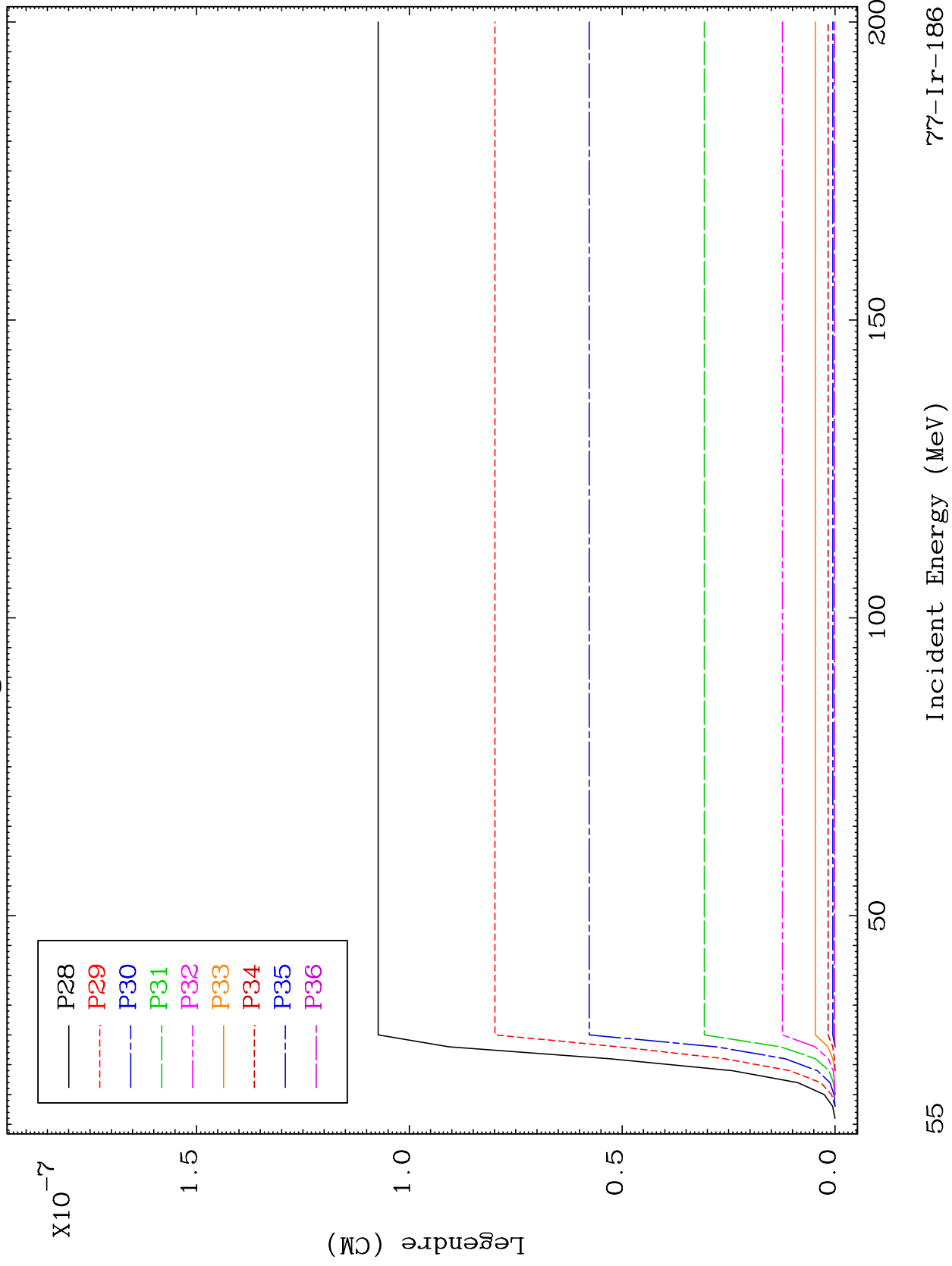
77-Ir-186



MAT 7710

MT= 61 (n,n') Level  
Legendre Coefficients

77-Ir-186



55

Incident Energy (MeV)

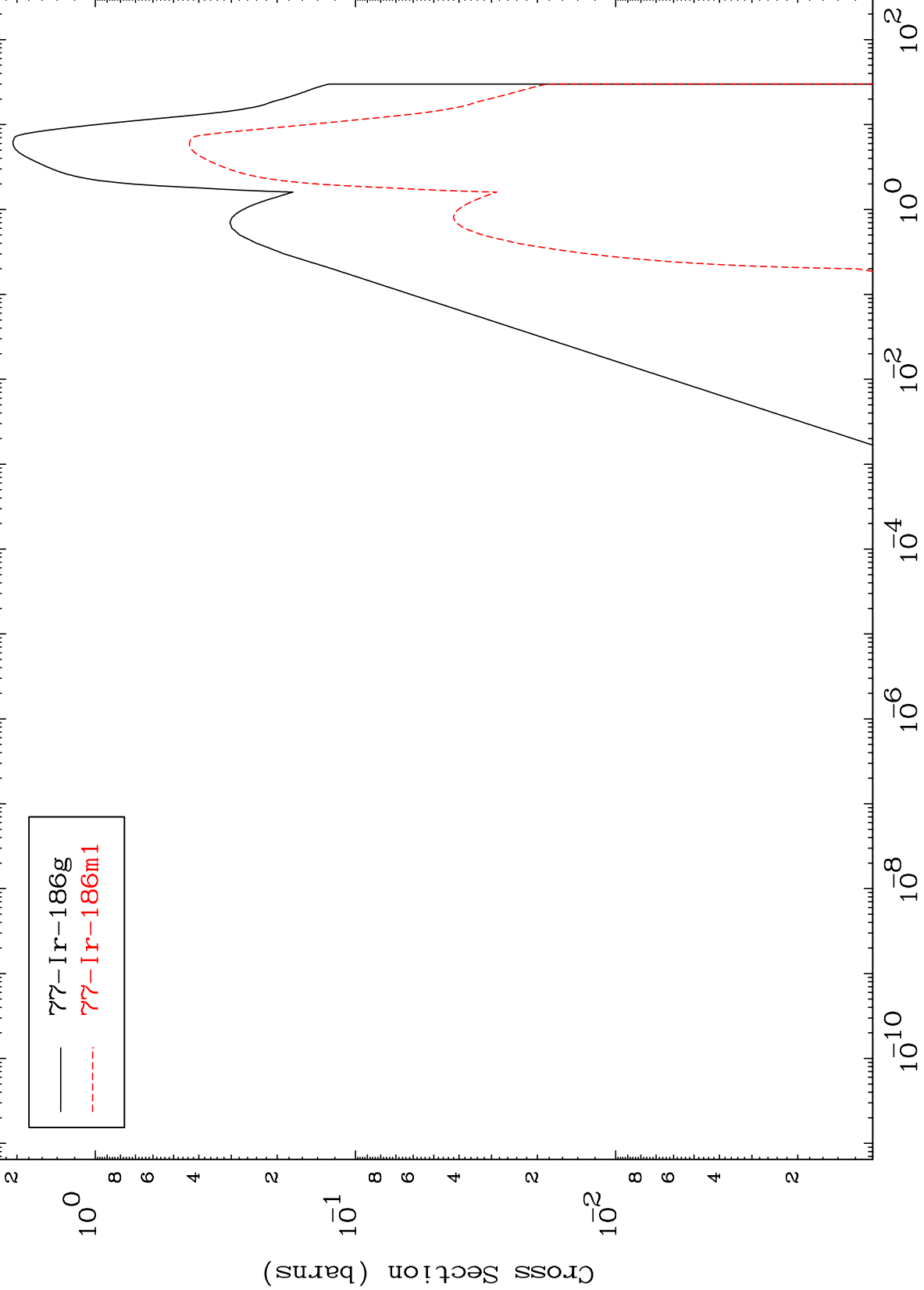
77-Ir-186



MAT 7710

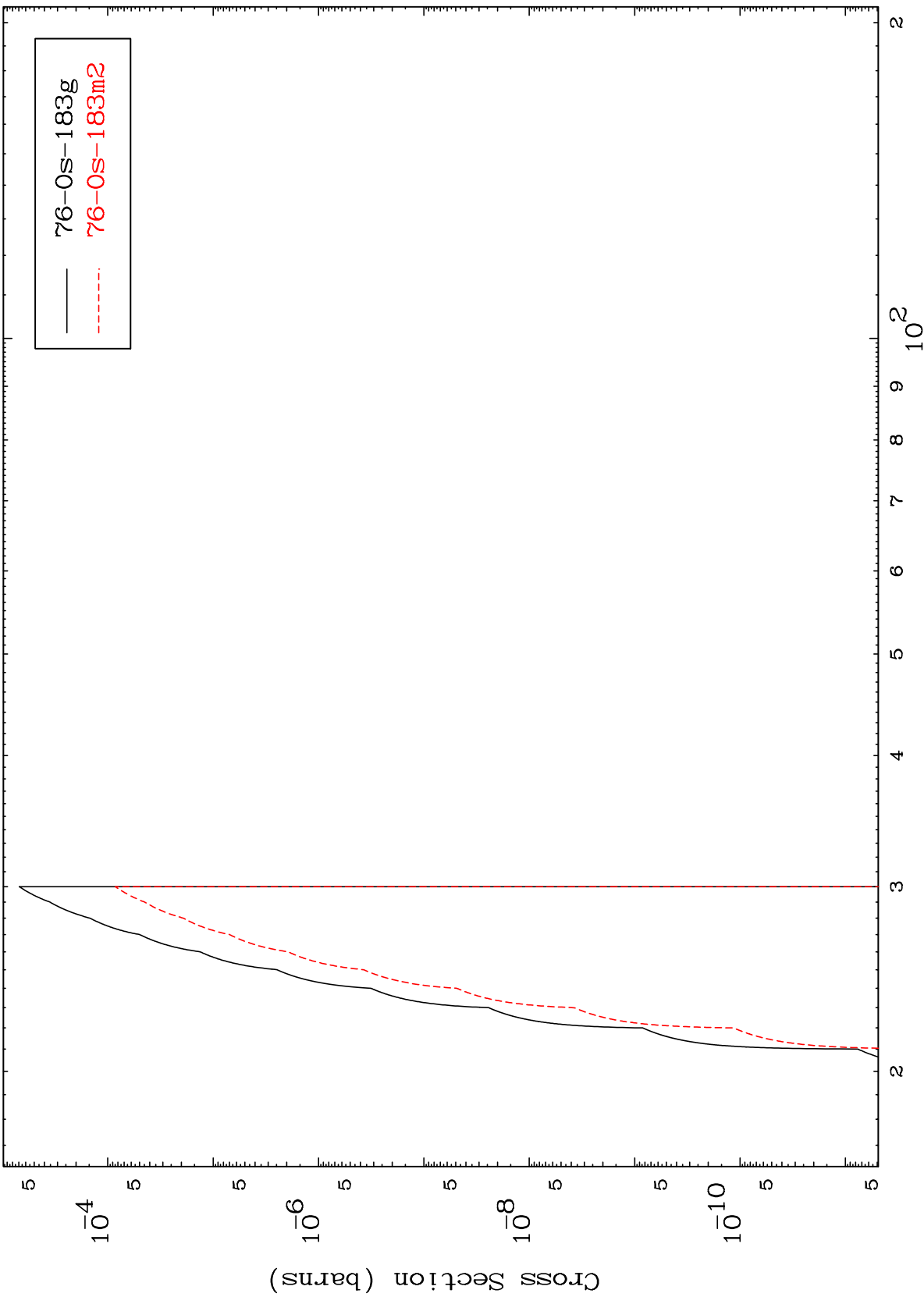
Inelastic  
Radionuclide Production Cross Section

<sup>77</sup>Ir-186



— <sup>77</sup>Ir-186g  
- - - <sup>77</sup>Ir-186m1

Radionuclide Production Cross Section



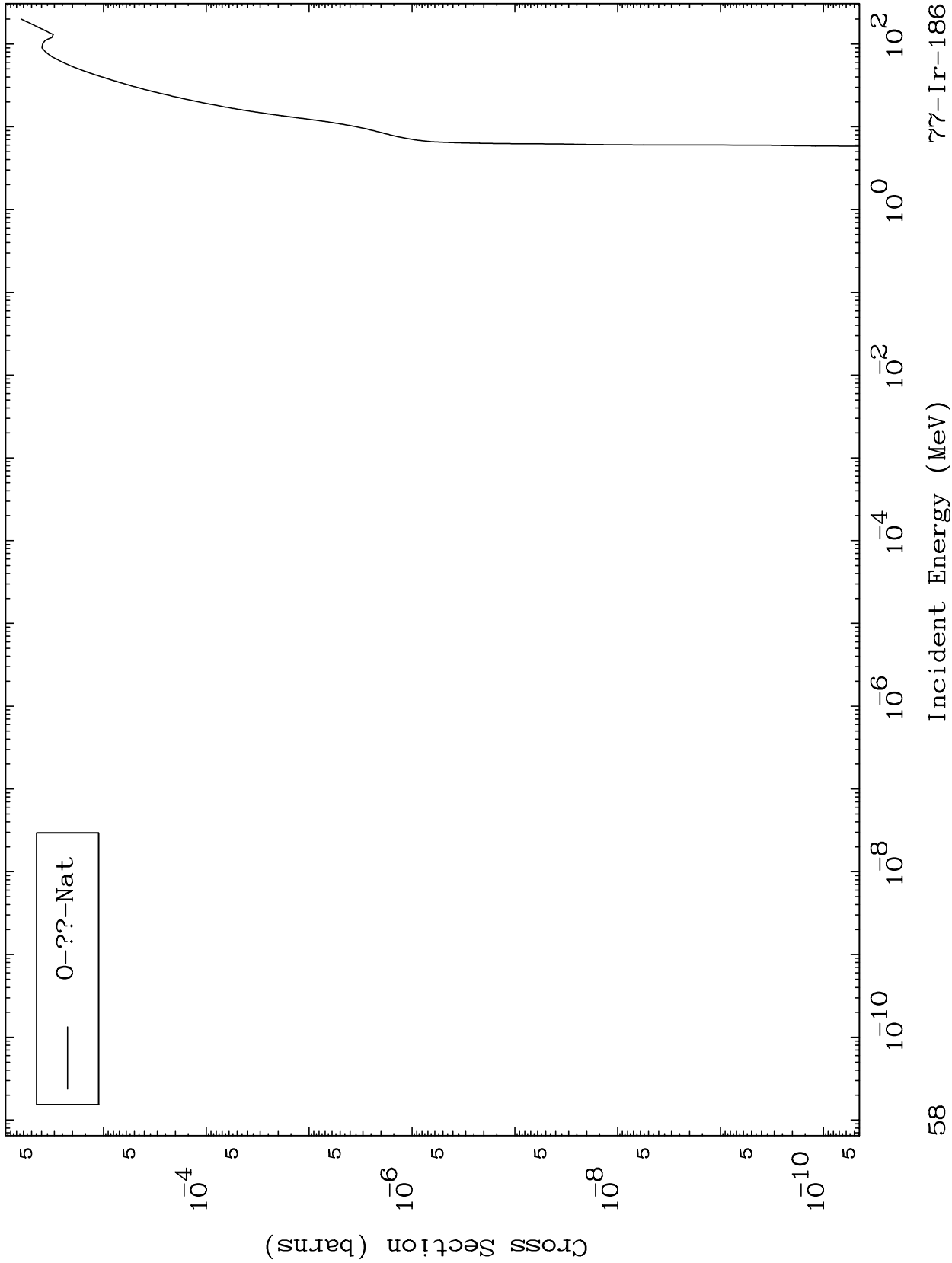
76-Os-183g  
76-Os-183m2

MAT 7710

Fission

<sup>77</sup>Ir-186

Radionuclide Production Cross Section



58

Incident Energy (MeV)

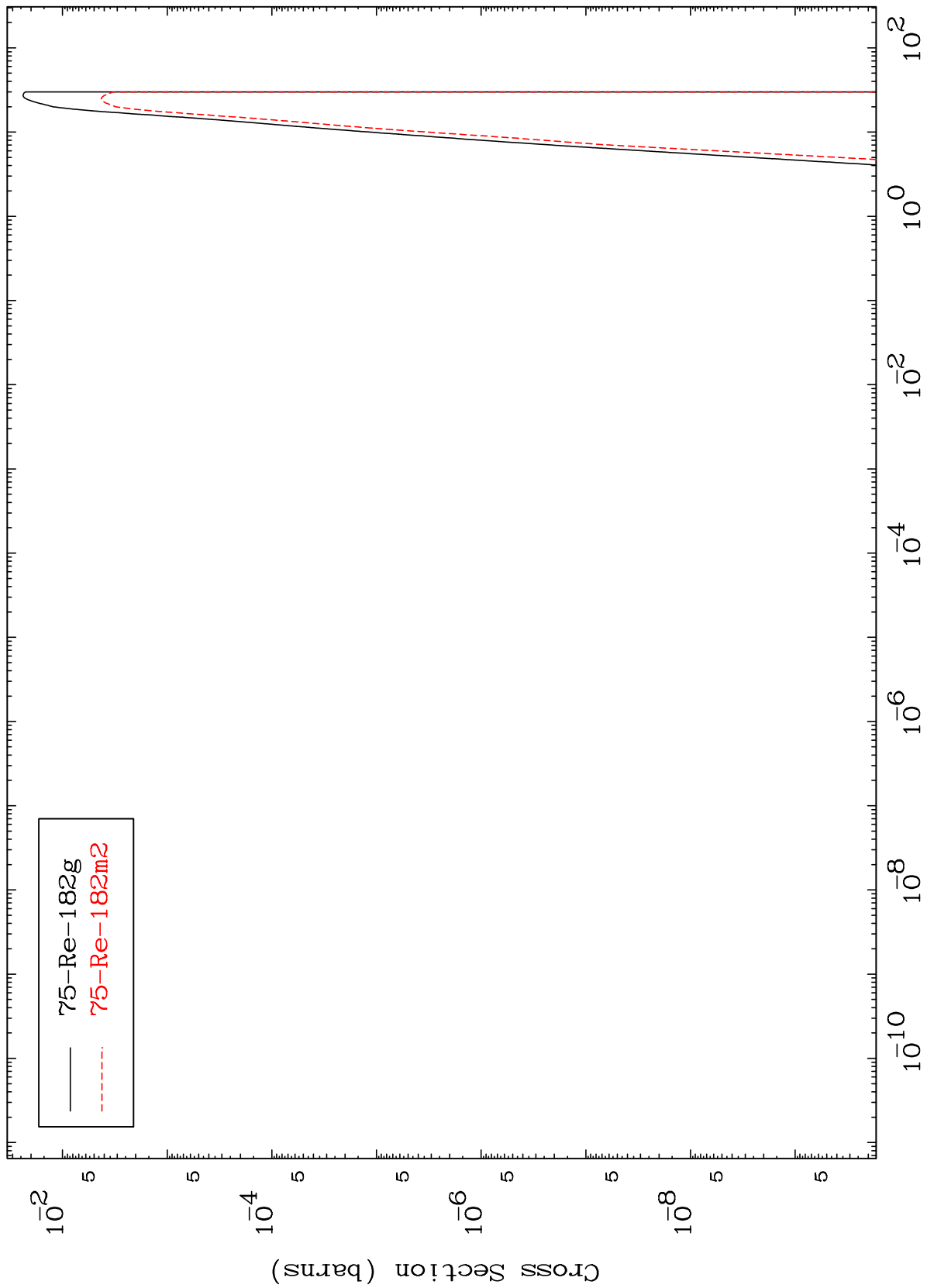
<sup>77</sup>Ir-186

MAT 7710

$(n, n')$   $\alpha$

$^{77}\text{Ir-186}$

Radionuclide Production Cross Section

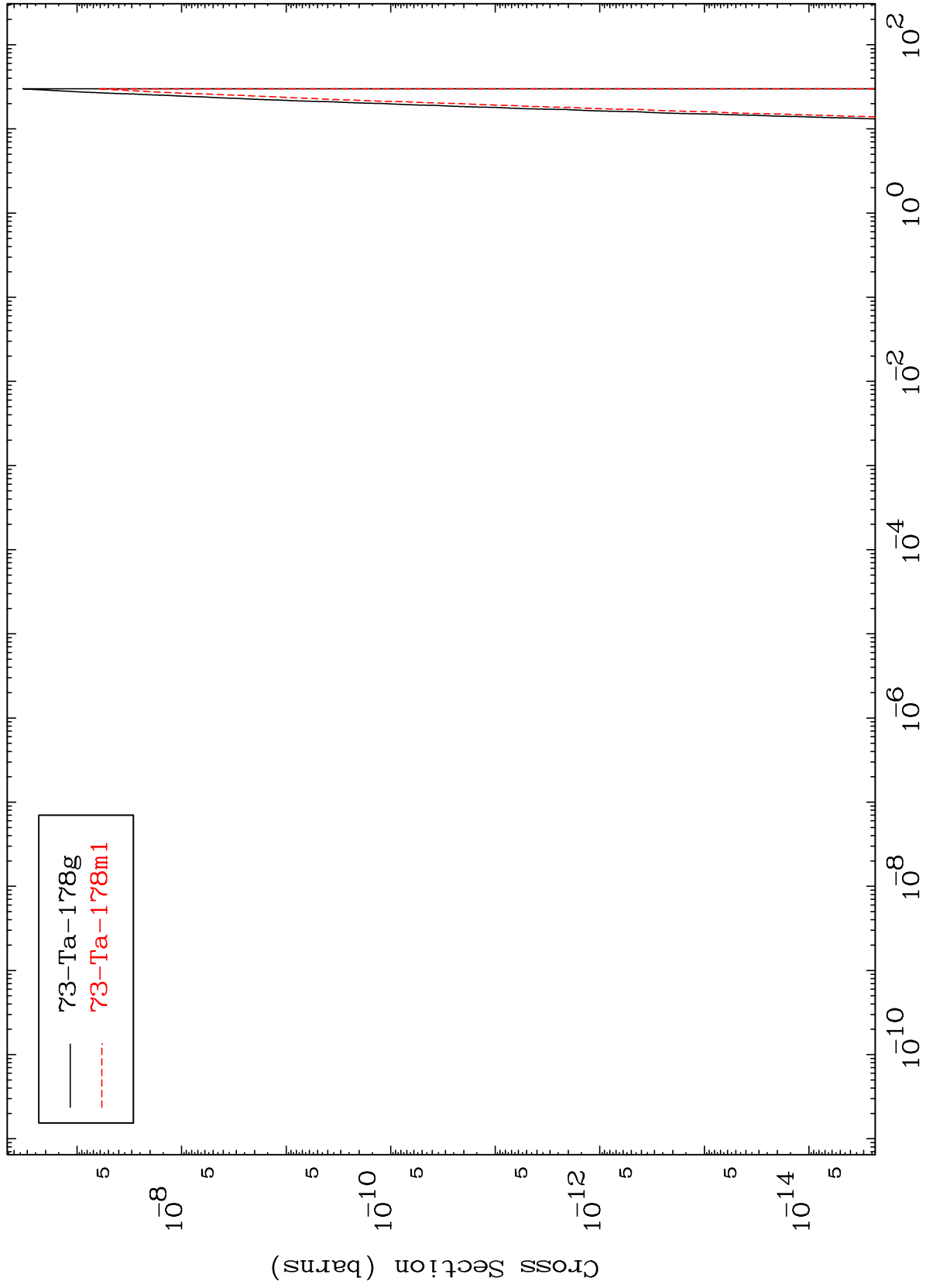


MAT 7710

(n,n') 2α

<sup>77</sup>Ir-186

Radionuclide Production Cross Section



60

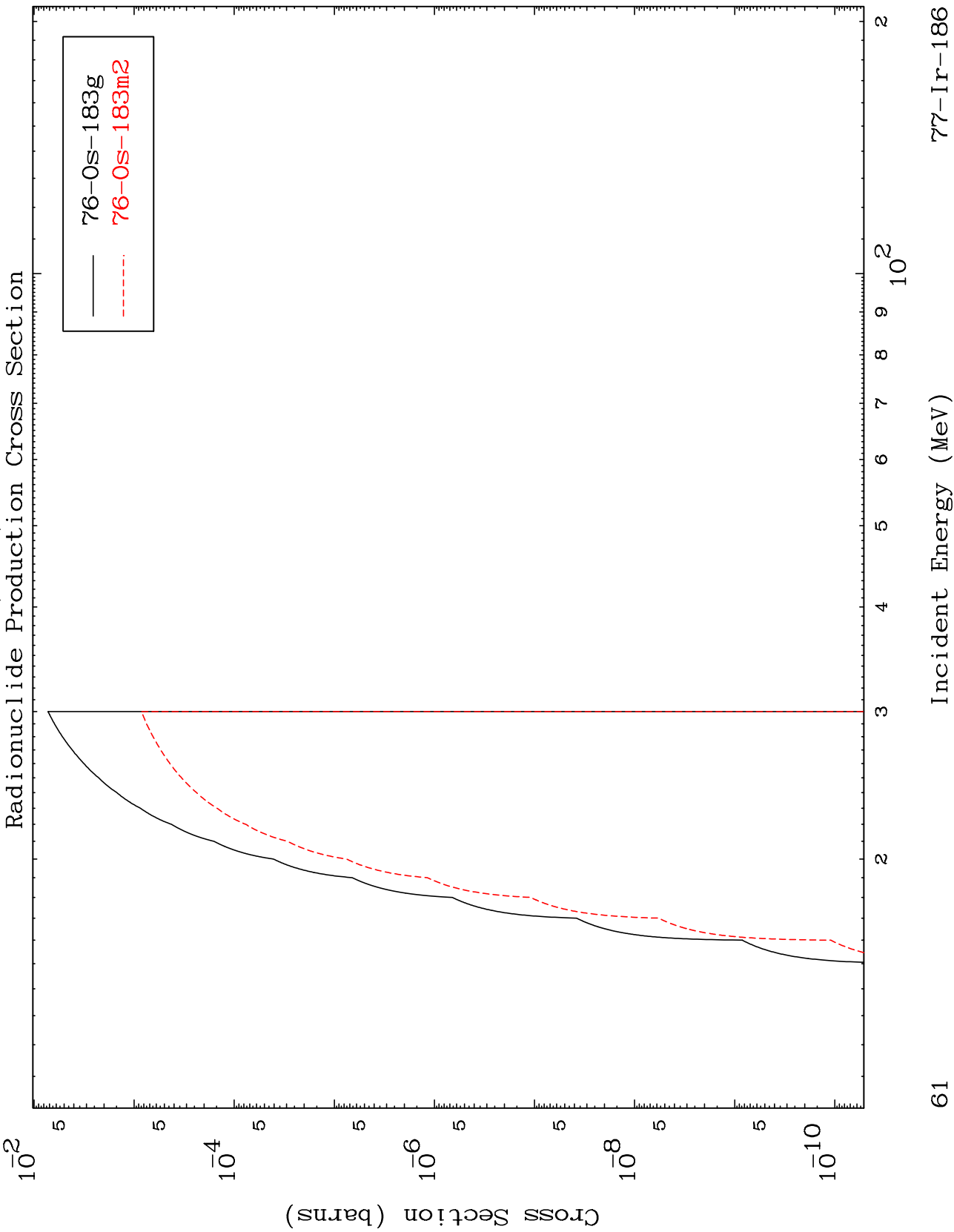
Incident Energy (MeV)

<sup>77</sup>Ir-186

MAT 7710

(n,n') t

77-Ir-186



61

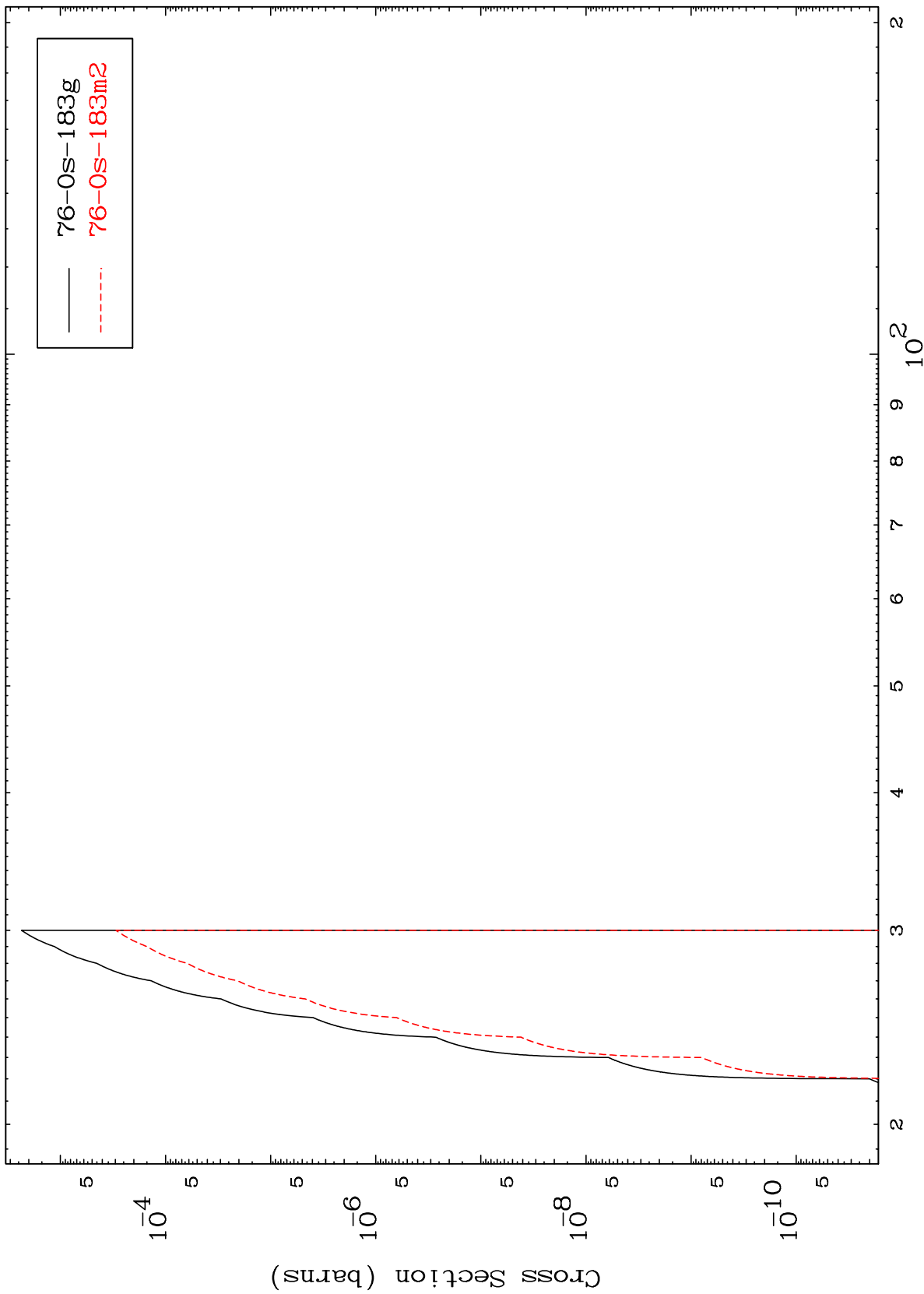
Incident Energy (MeV)

77-Ir-186

MAT 7710

77-Ir-186

(n,3n) p  
Radionuclide Production Cross Section



76-Os-183g  
76-Os-183m2

62

77-Ir-186

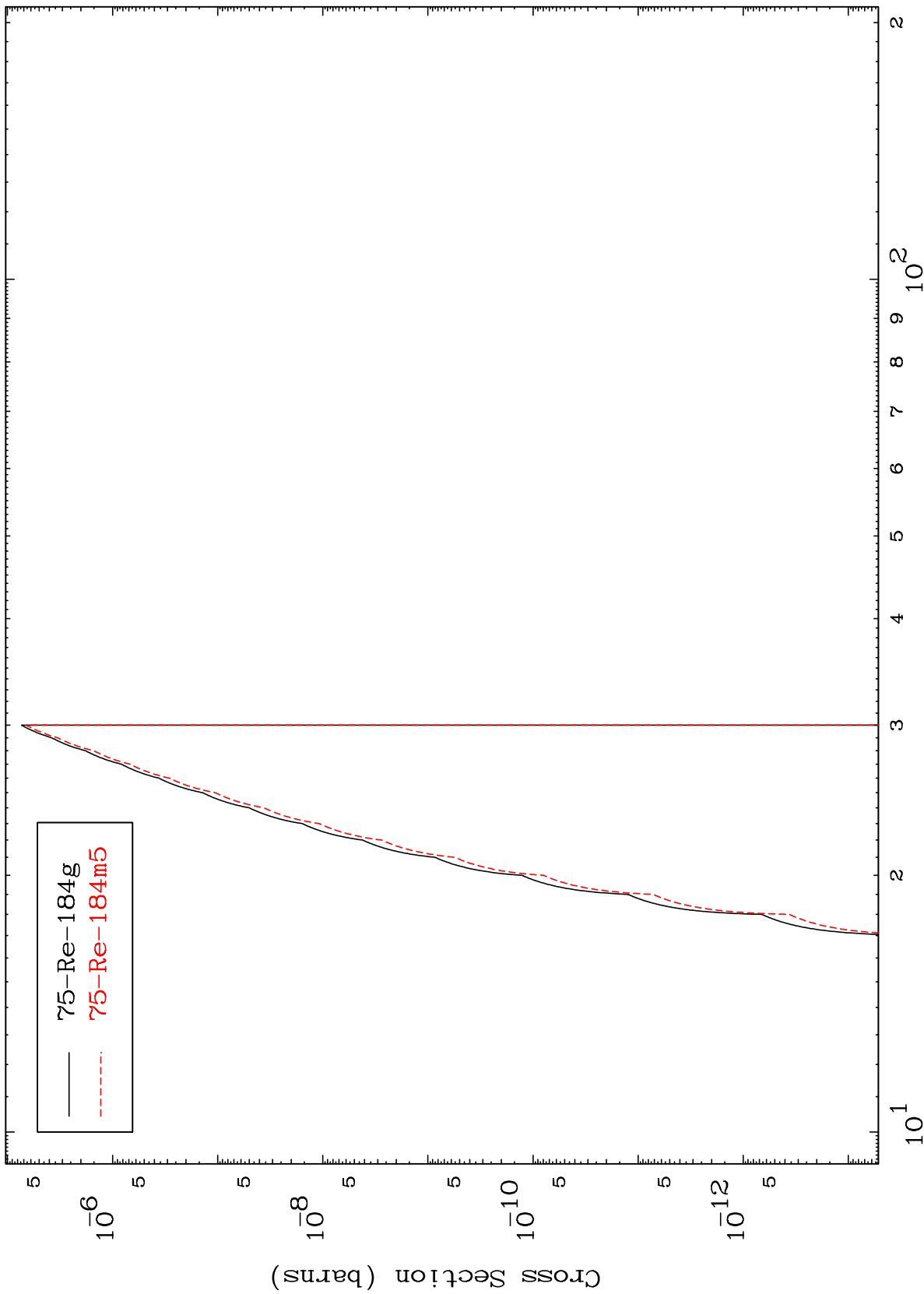
Incident Energy (MeV)

MAT 7710

(n,2n) p

77-Ir-186

Radionuclide Production Cross Section



75-Re-184g  
75-Re-184m5

Incident Energy (MeV)

77-Ir-186

63

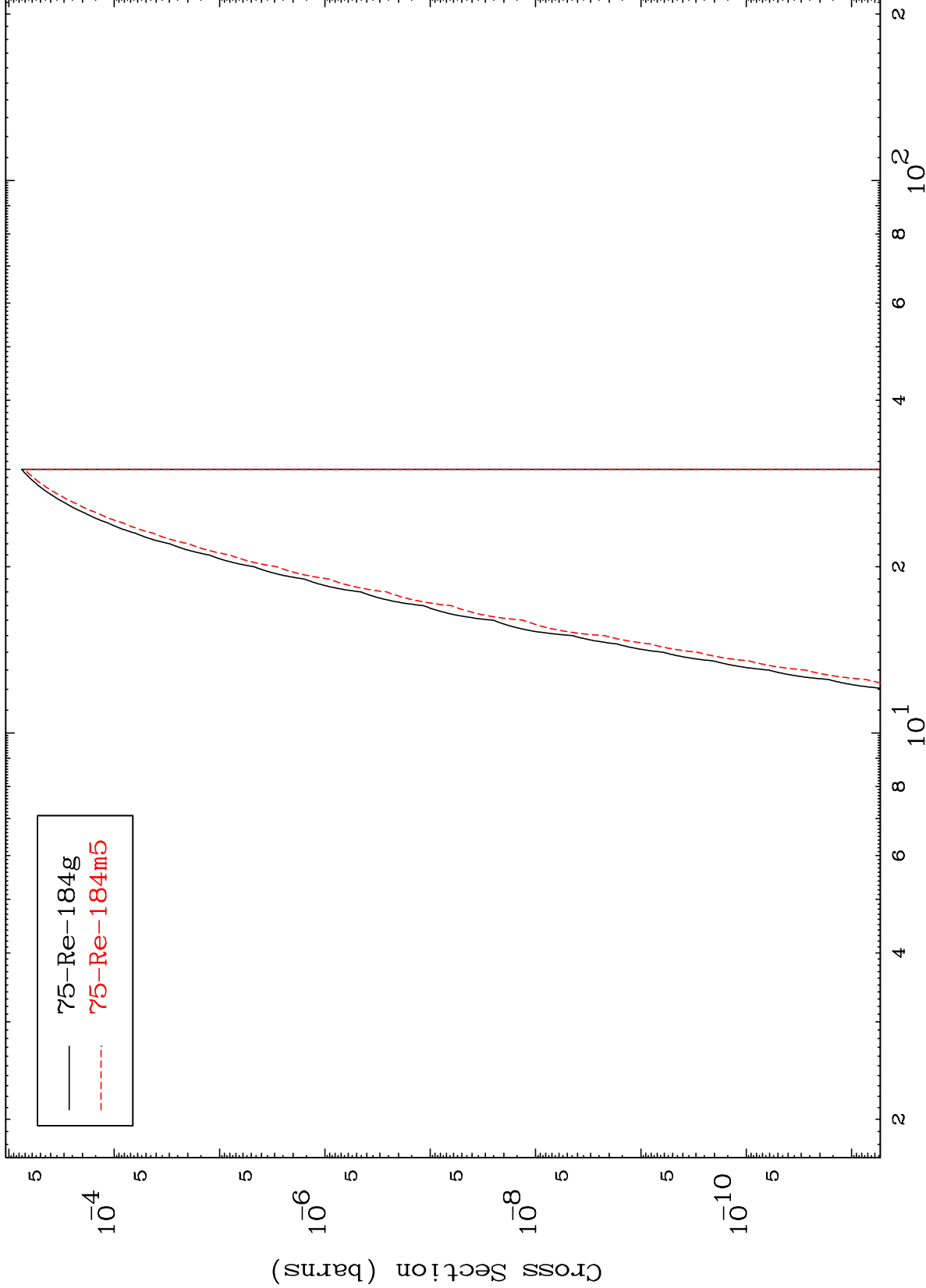


MAT 7710

(n,He-3)

77-Ir-186

Radionuclide Production Cross Section



64

Incident Energy (MeV)

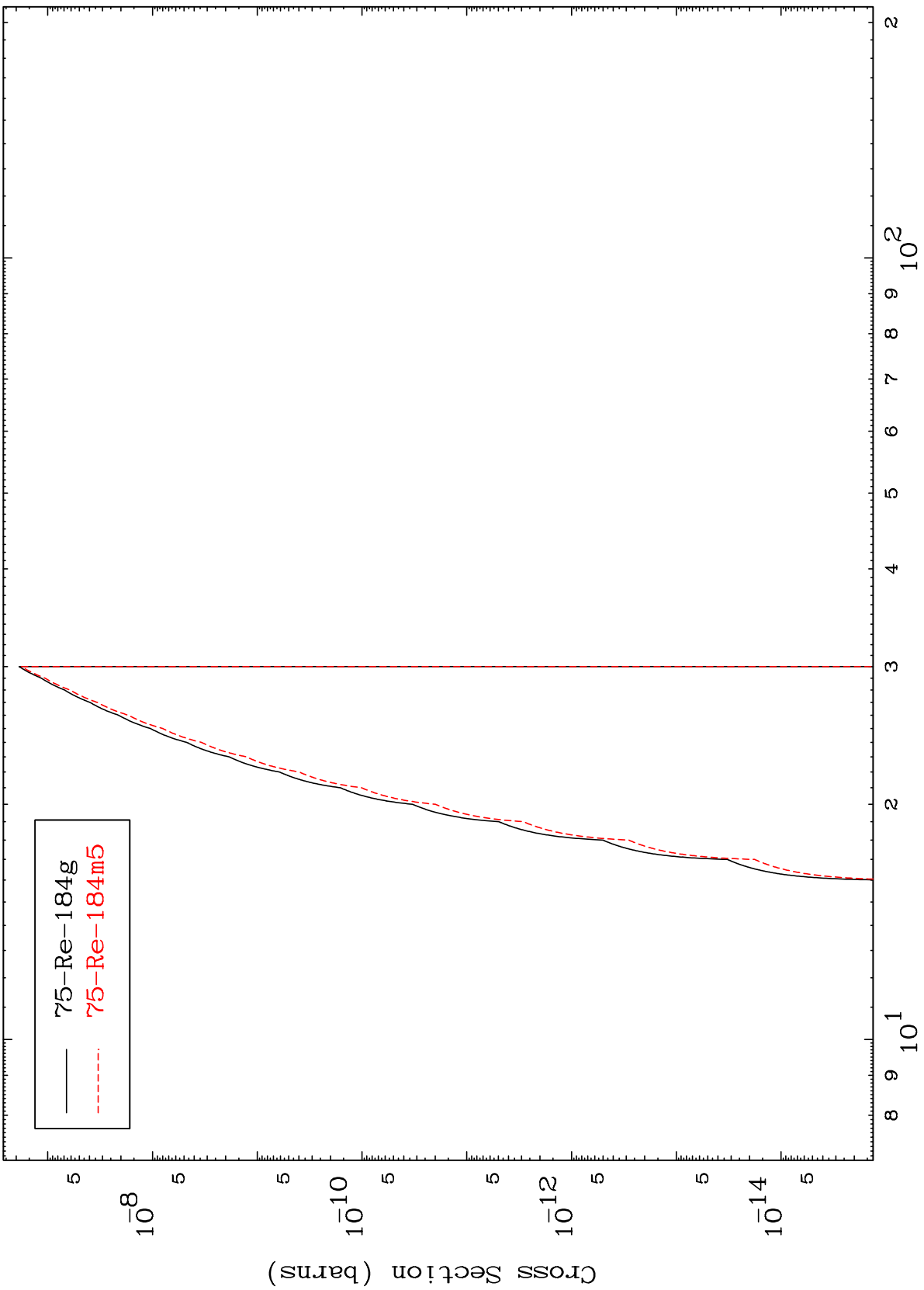
77-Ir-186

MAT 7710

(n,p) d

<sup>77</sup>Ir-186

Radionuclide Production Cross Section



65

Incident Energy (MeV)

<sup>77</sup>Ir-186