

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

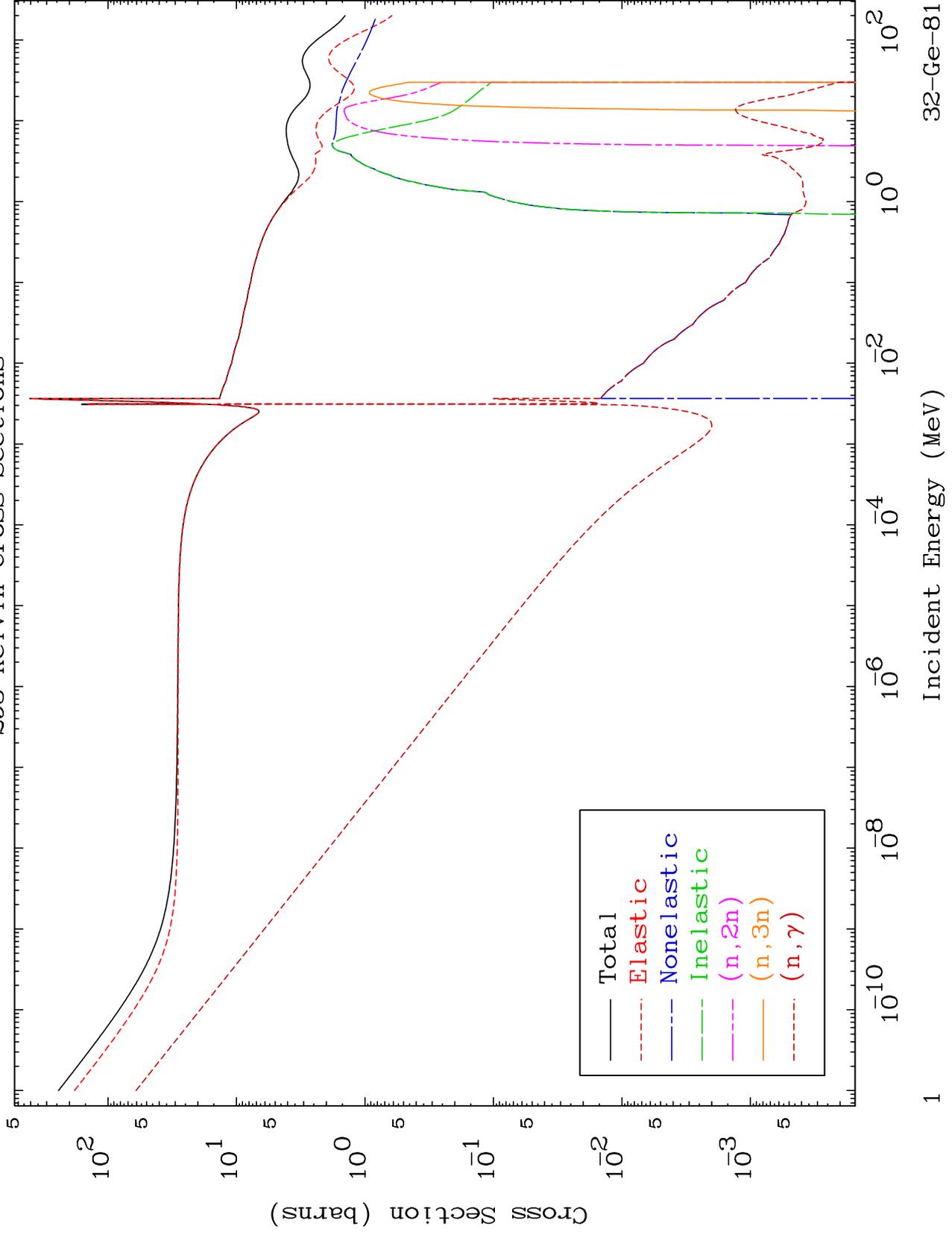
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3258

Neutron Major  
293 Kelvin Cross Sections

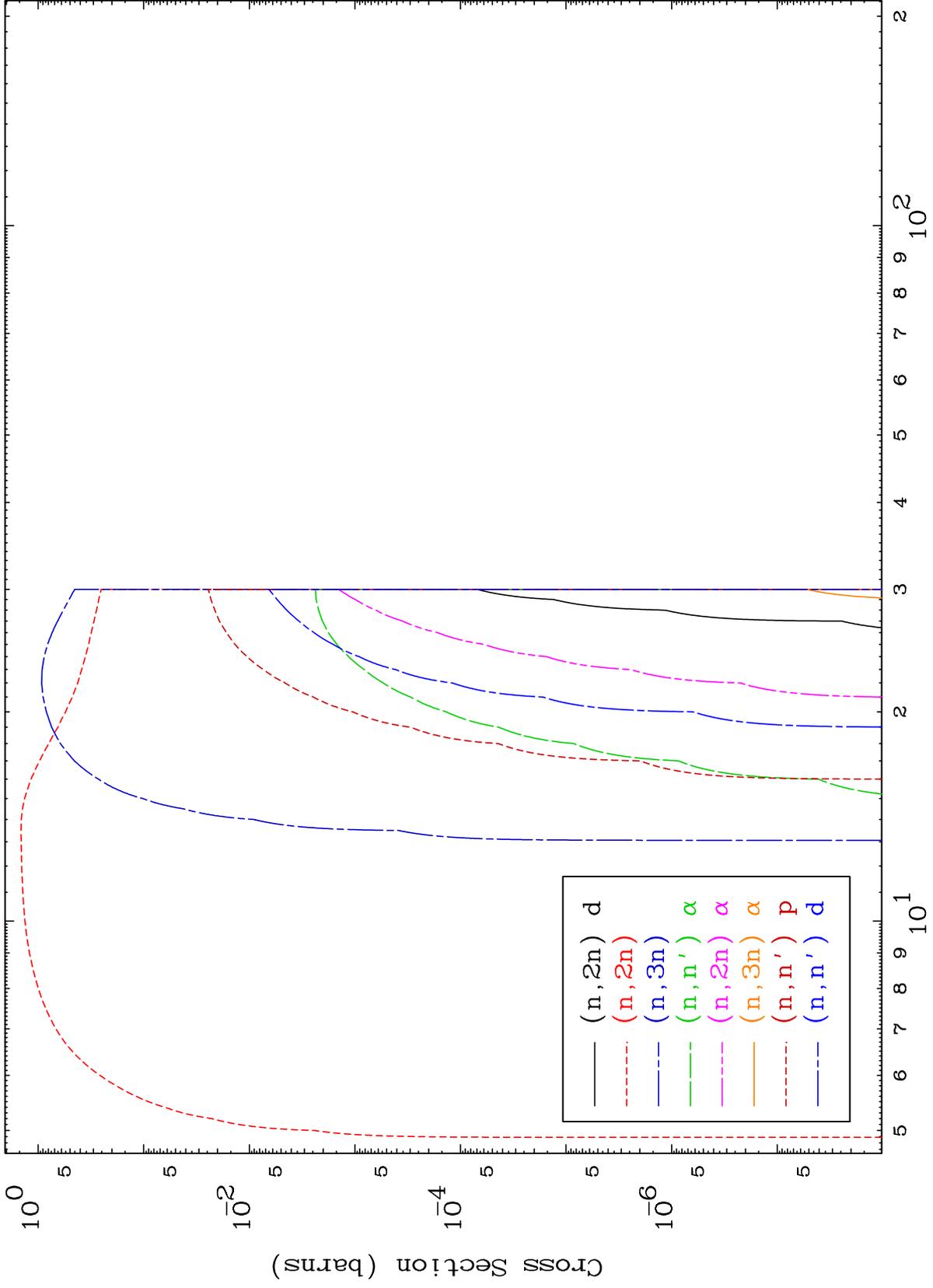
32-Ge-81



MAT 3258

Neutron Absorption  
293 Kelvin Cross Sections

<sup>32</sup>Ge-81



2

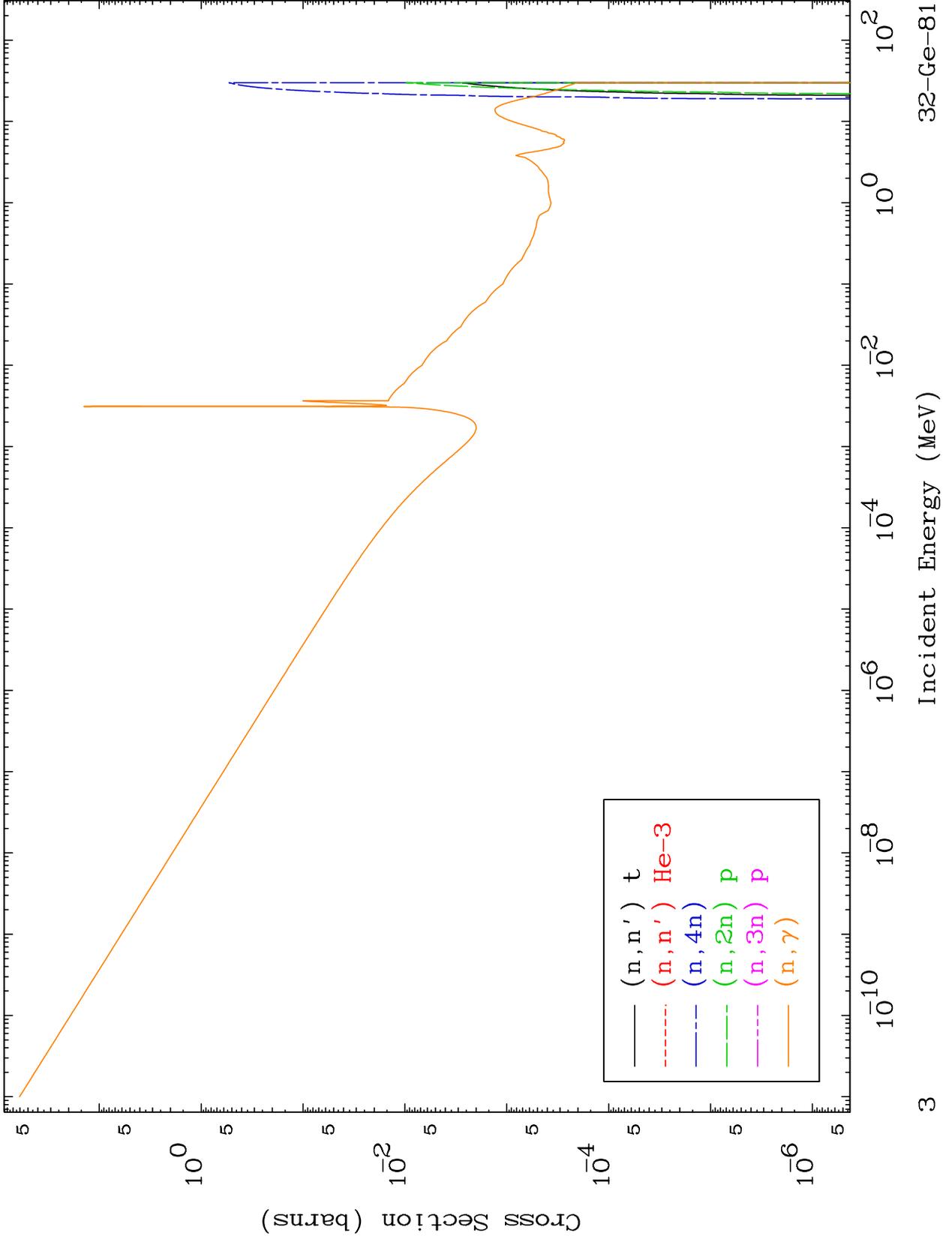
Incident Energy (MeV)

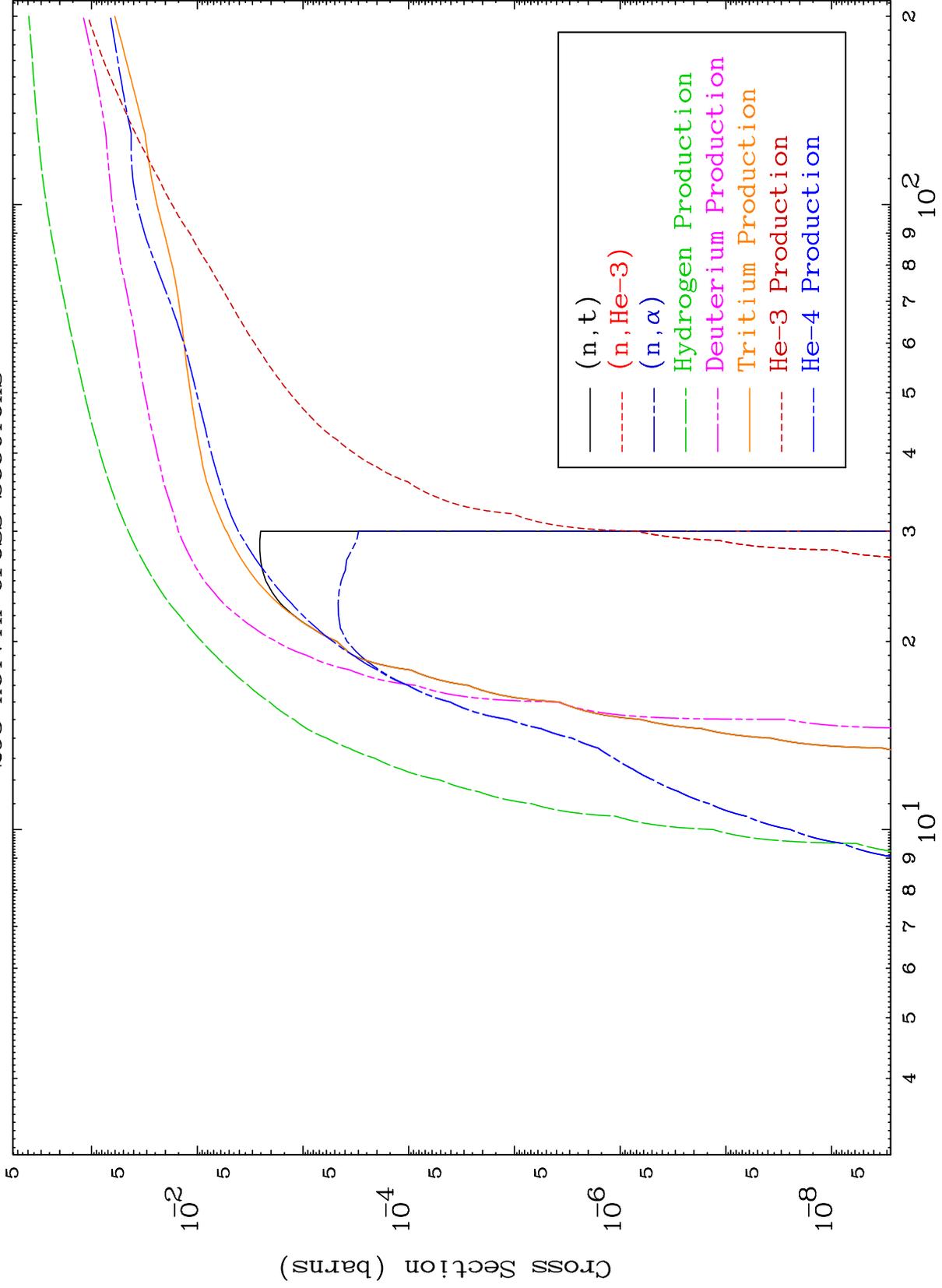
<sup>32</sup>Ge-81

MAT 3258

Neutron Absorption  
293 Kelvin Cross Sections

32-Ge-81

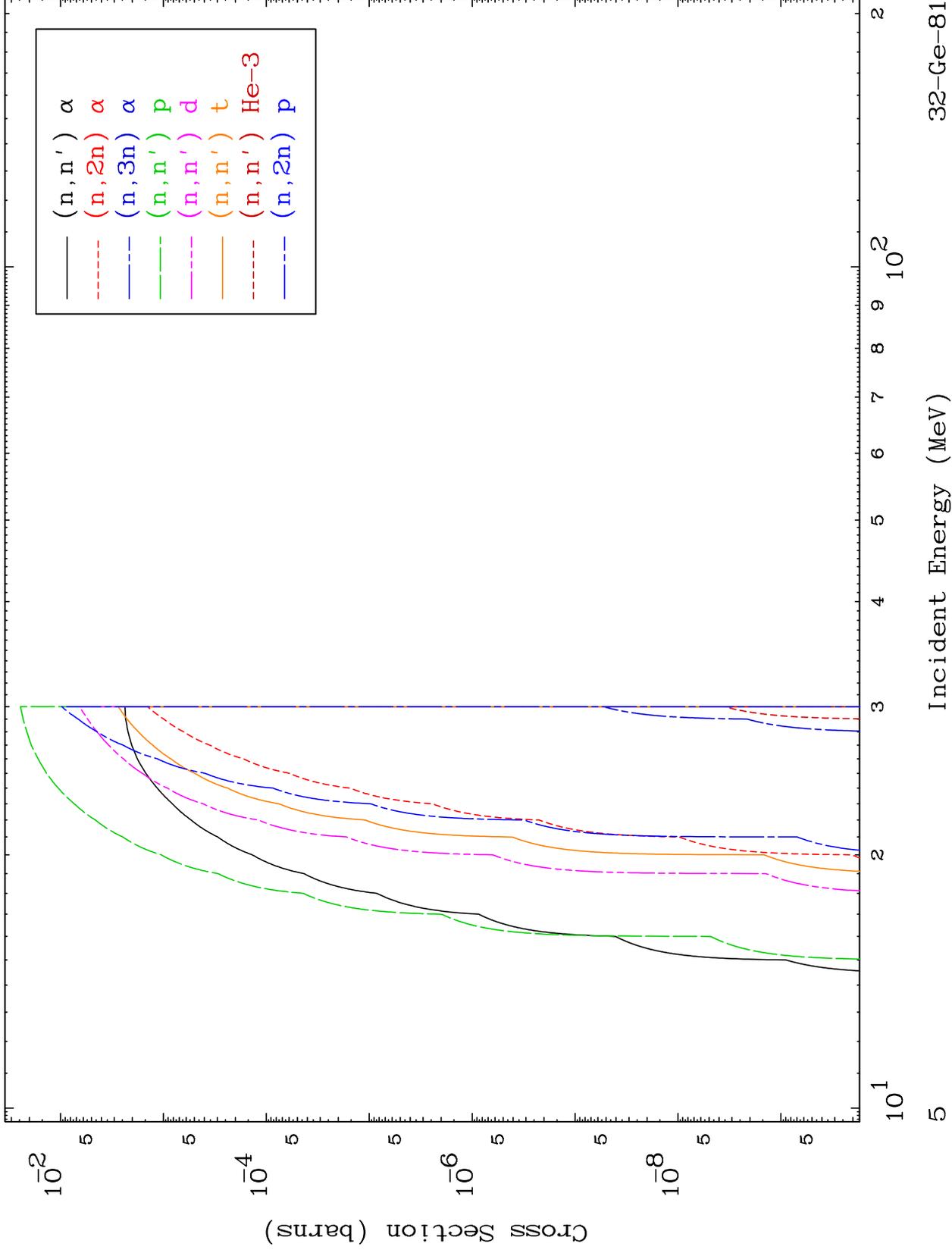


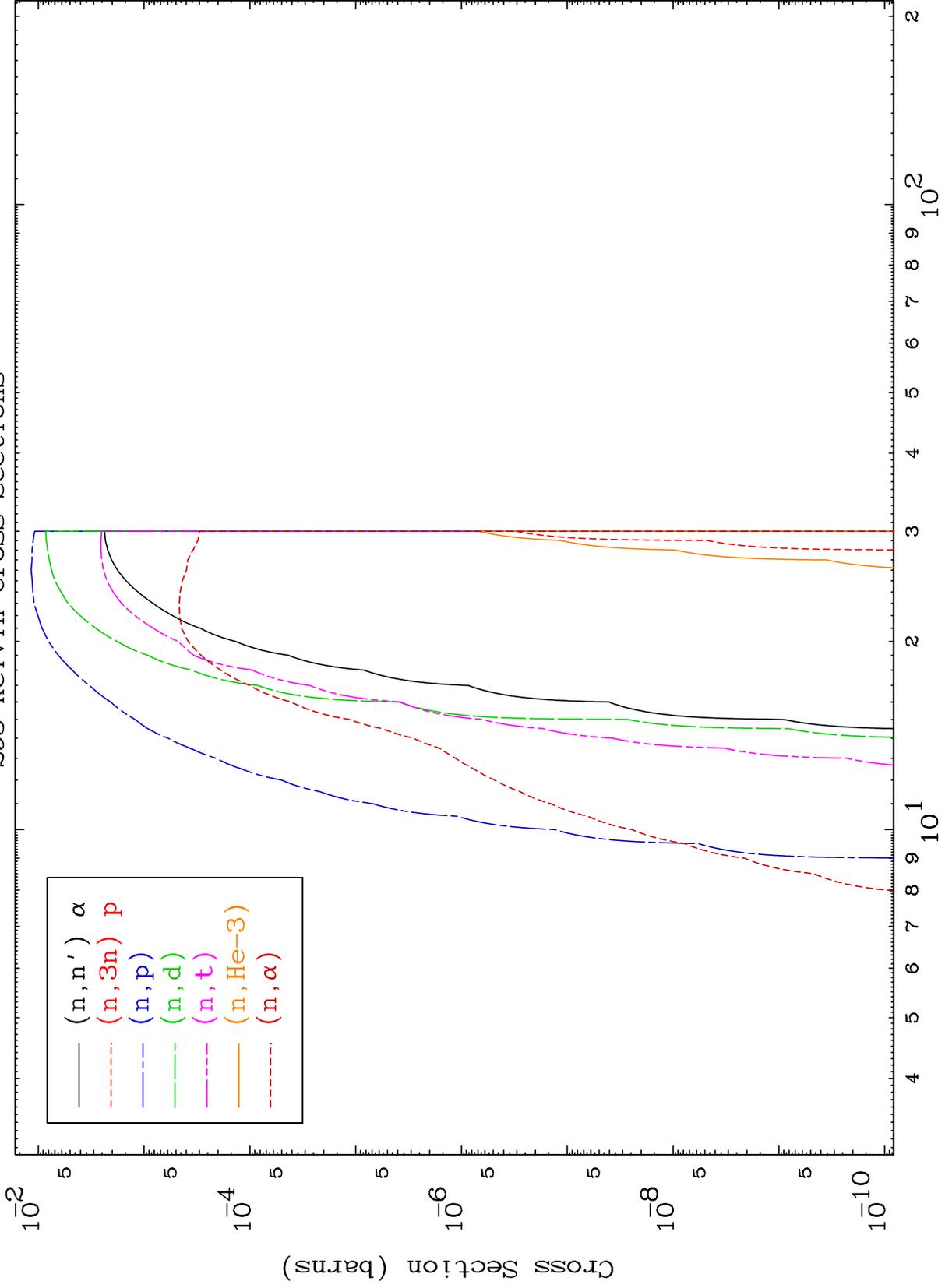


MAT 3258

Charged Particle  
293 Kelvin Cross Sections

32-Ge-81

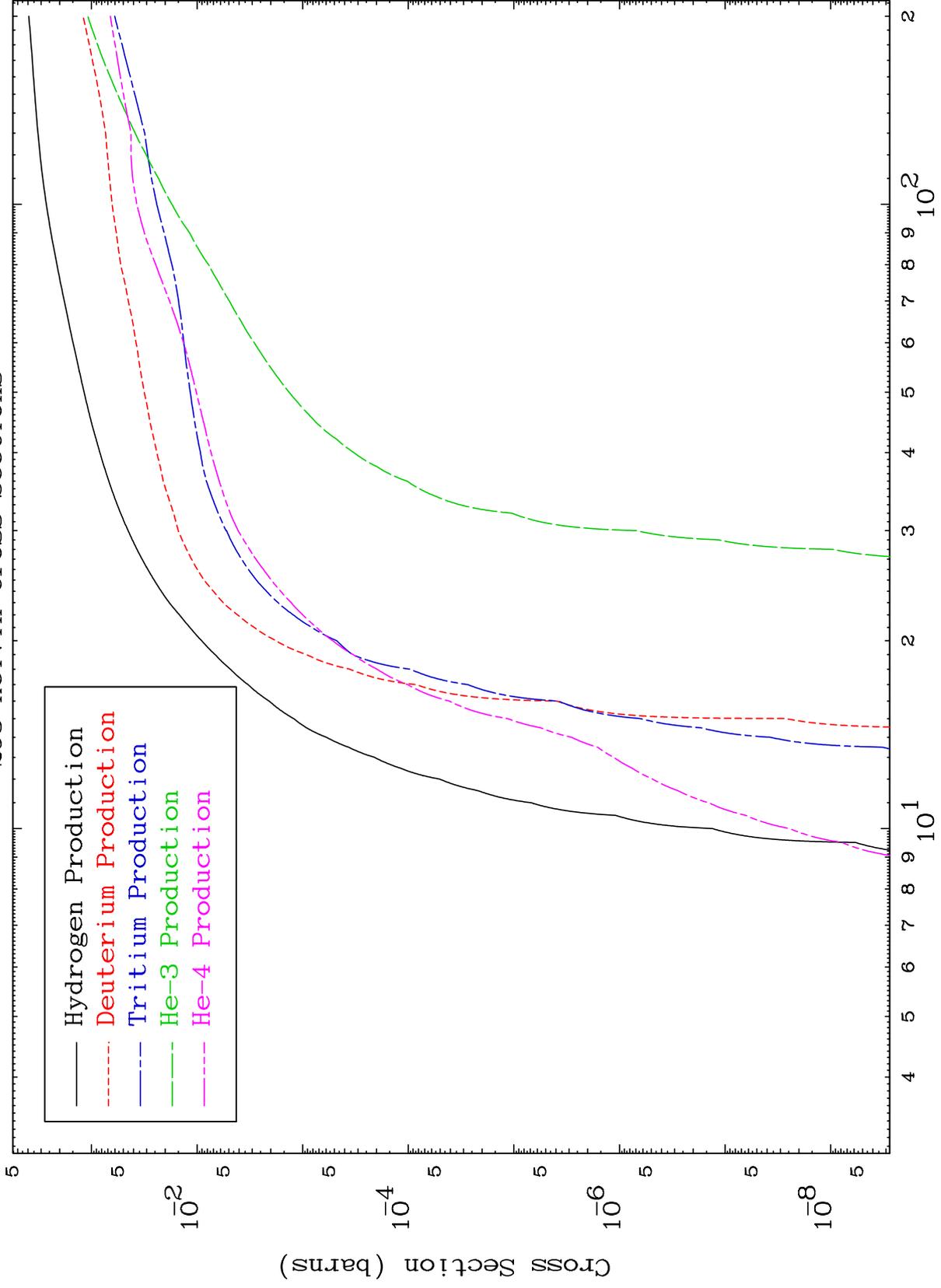




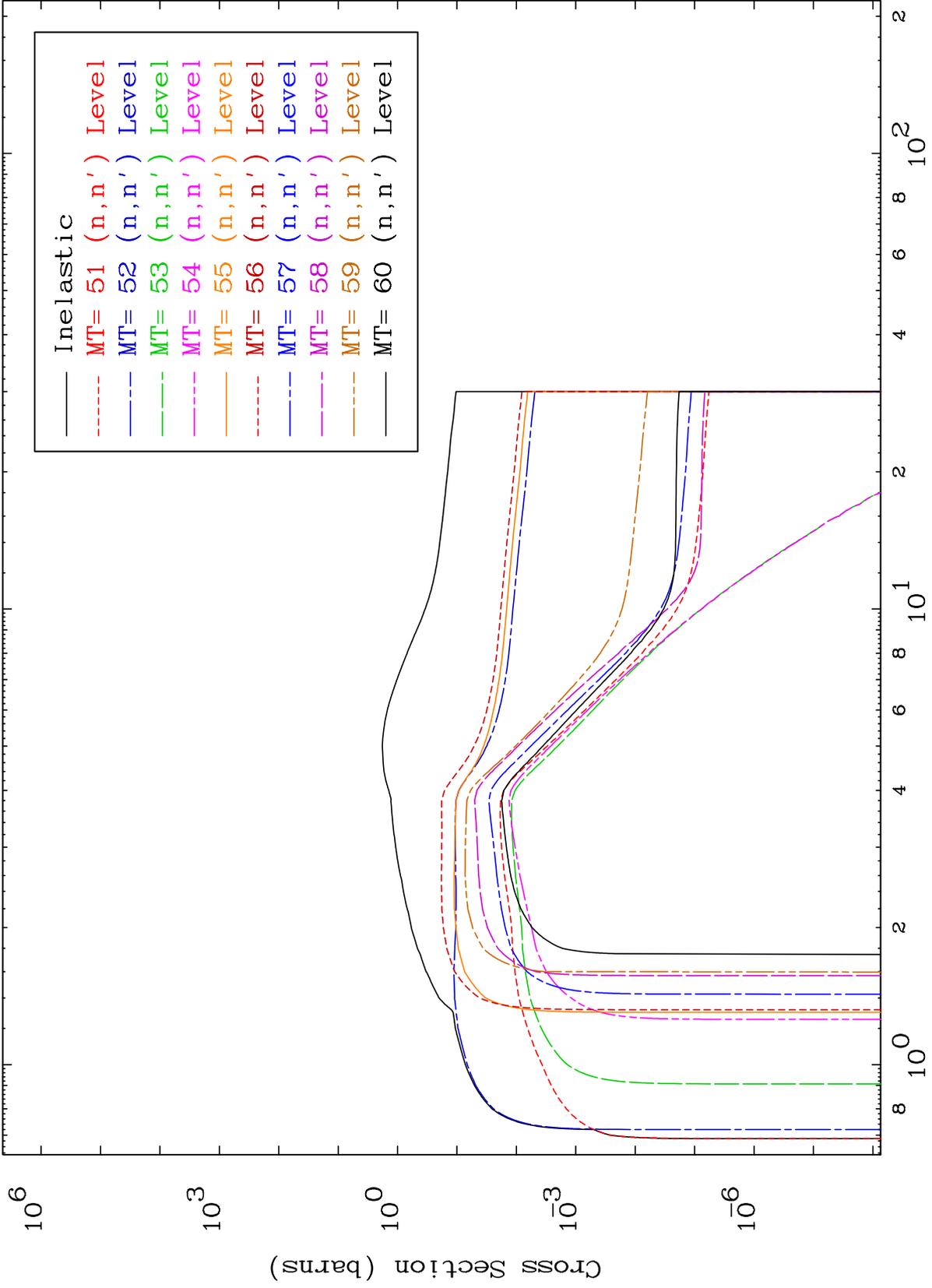
MAT 3258

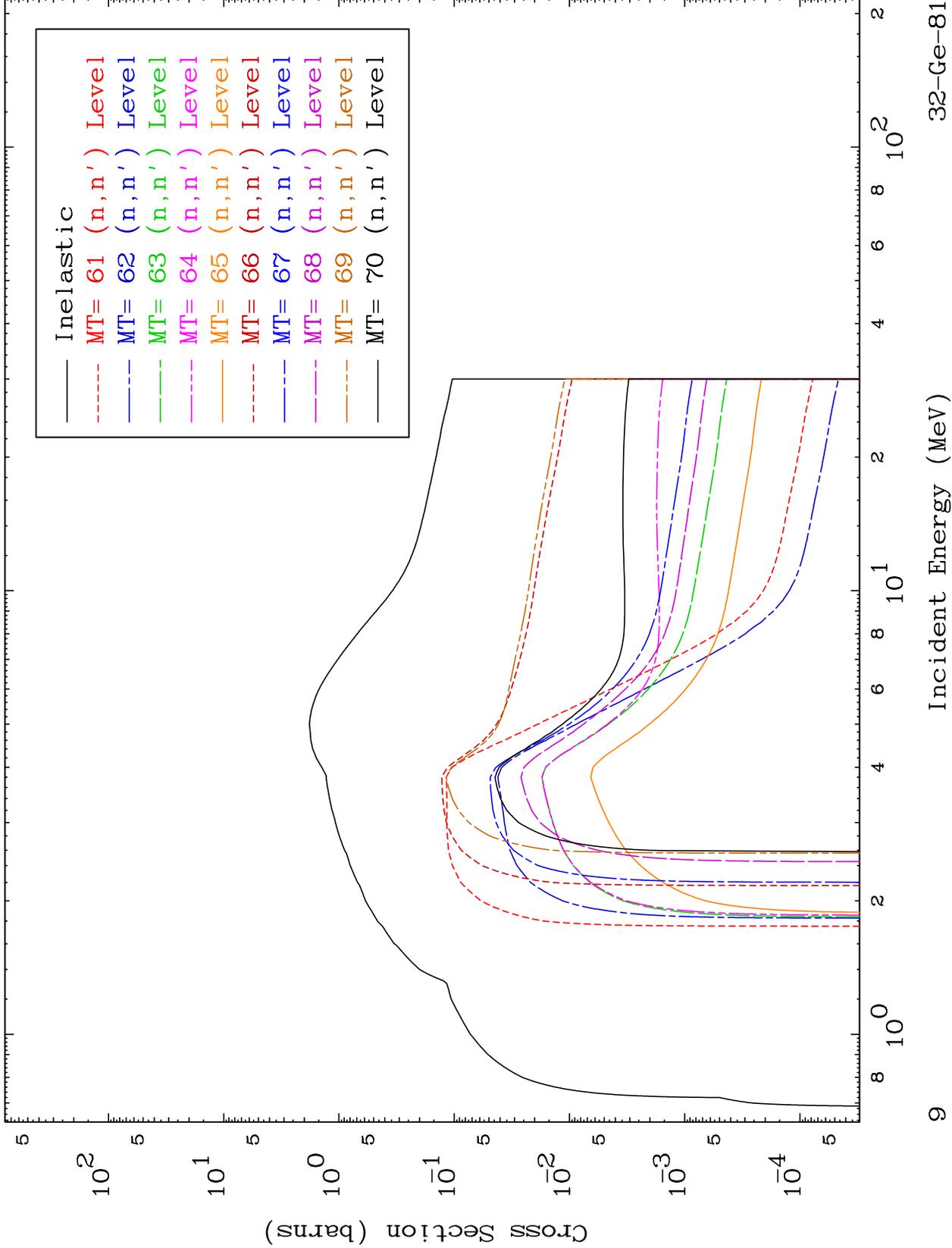
Particle Production  
293 Kelvin Cross Sections

32-Ge-81



293 Kelvin Cross Sections



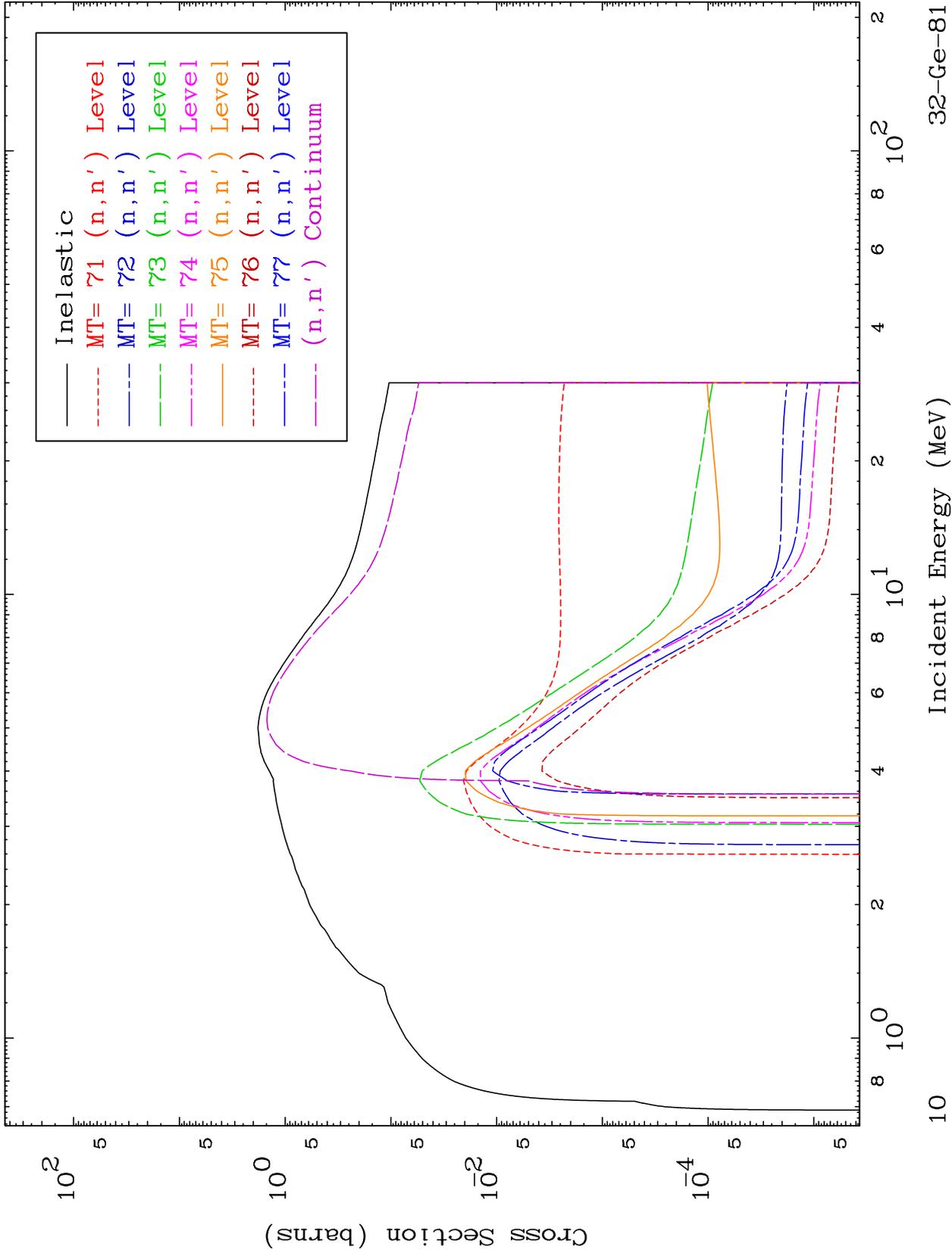


MAT 3258

(n,n') Levels

32-Ge-81

293 Kelvin Cross Sections



10

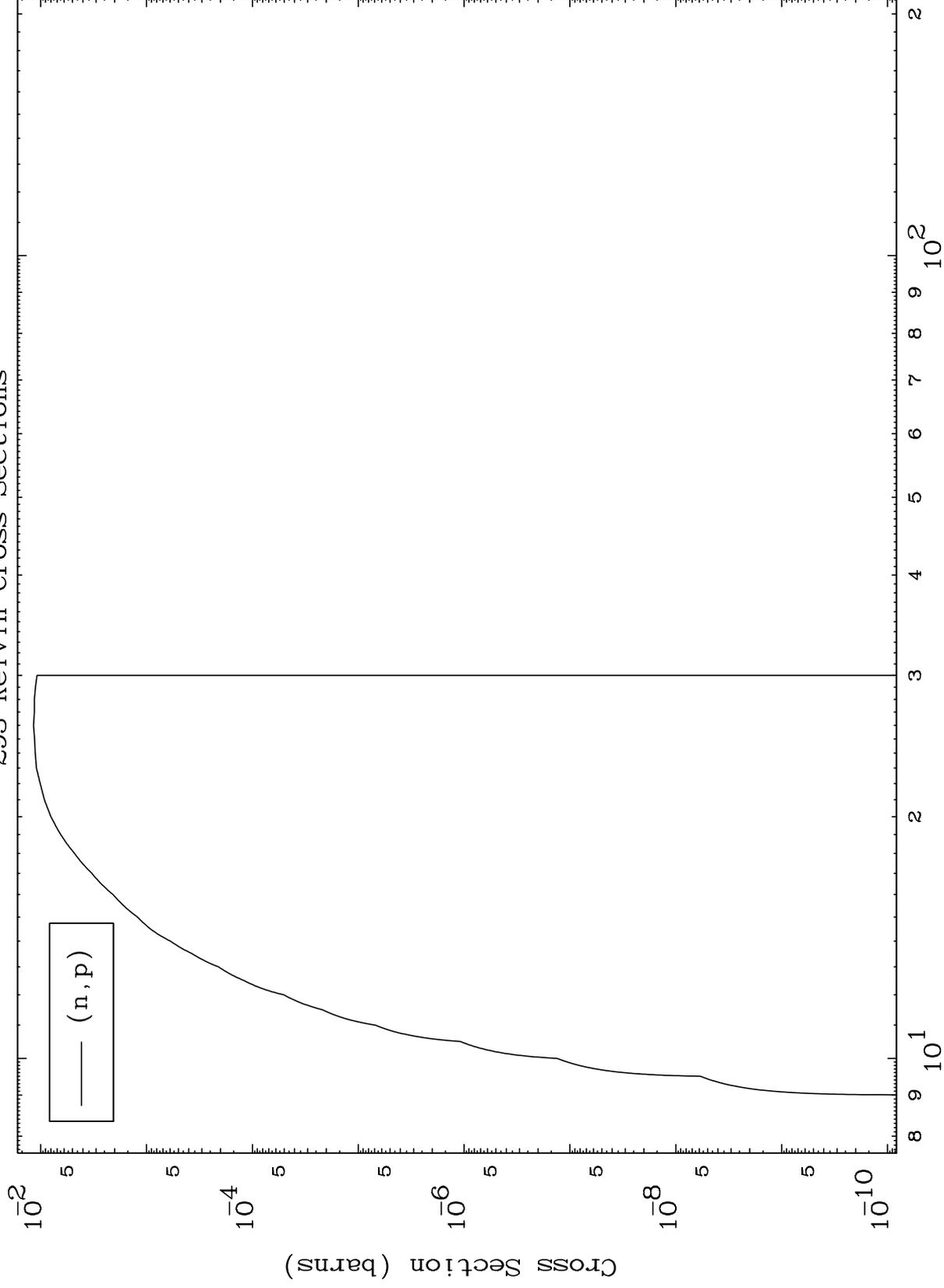
Incident Energy (MeV)

32-Ge-81

MAT 3258

(n,p) Levels  
293 Kelvin Cross Sections

<sup>32</sup>Ge-81



11

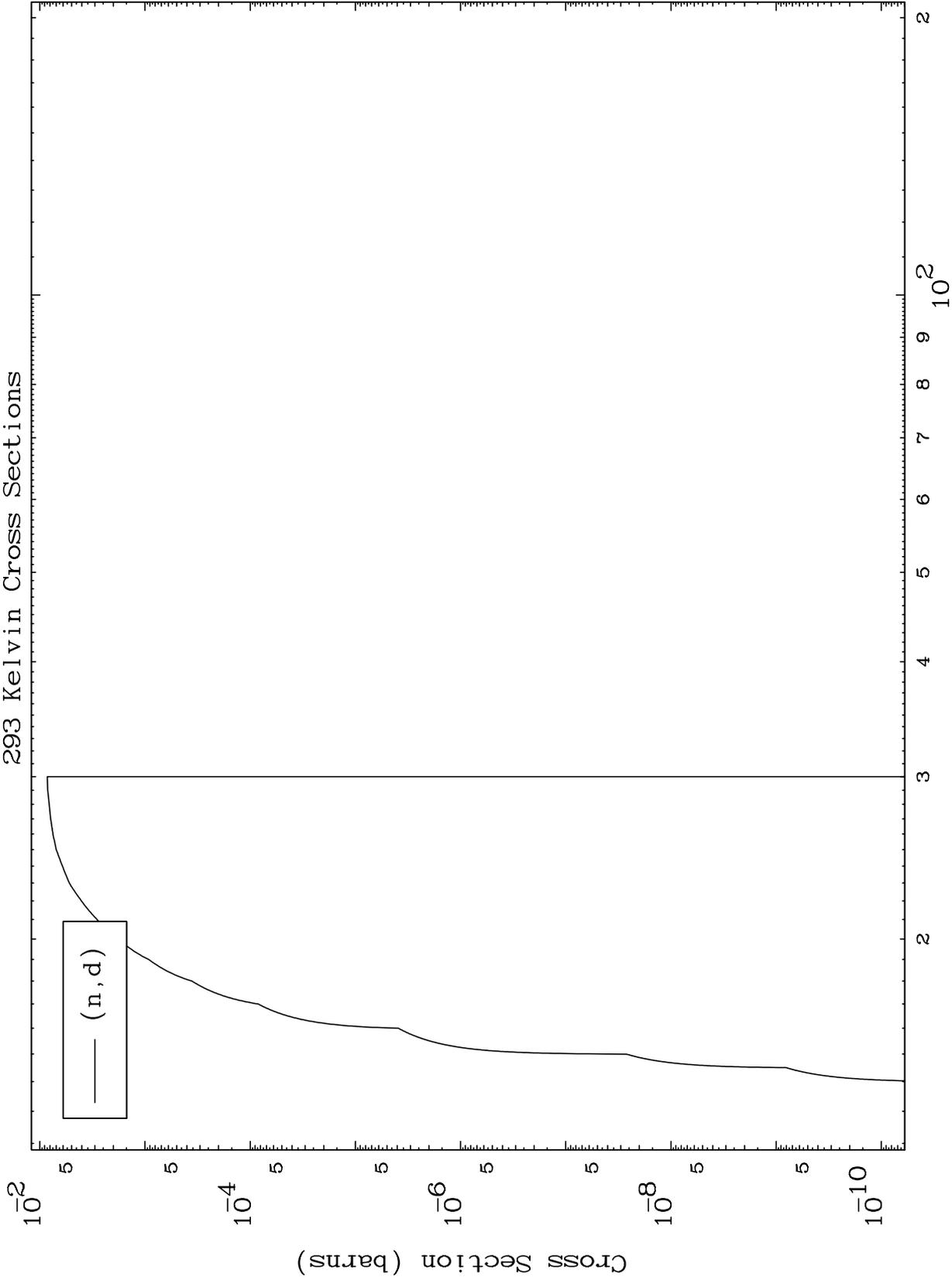
Incident Energy (MeV)

<sup>32</sup>Ge-81

MAT 3258

(n,d) Levels  
293 Kelvin Cross Sections

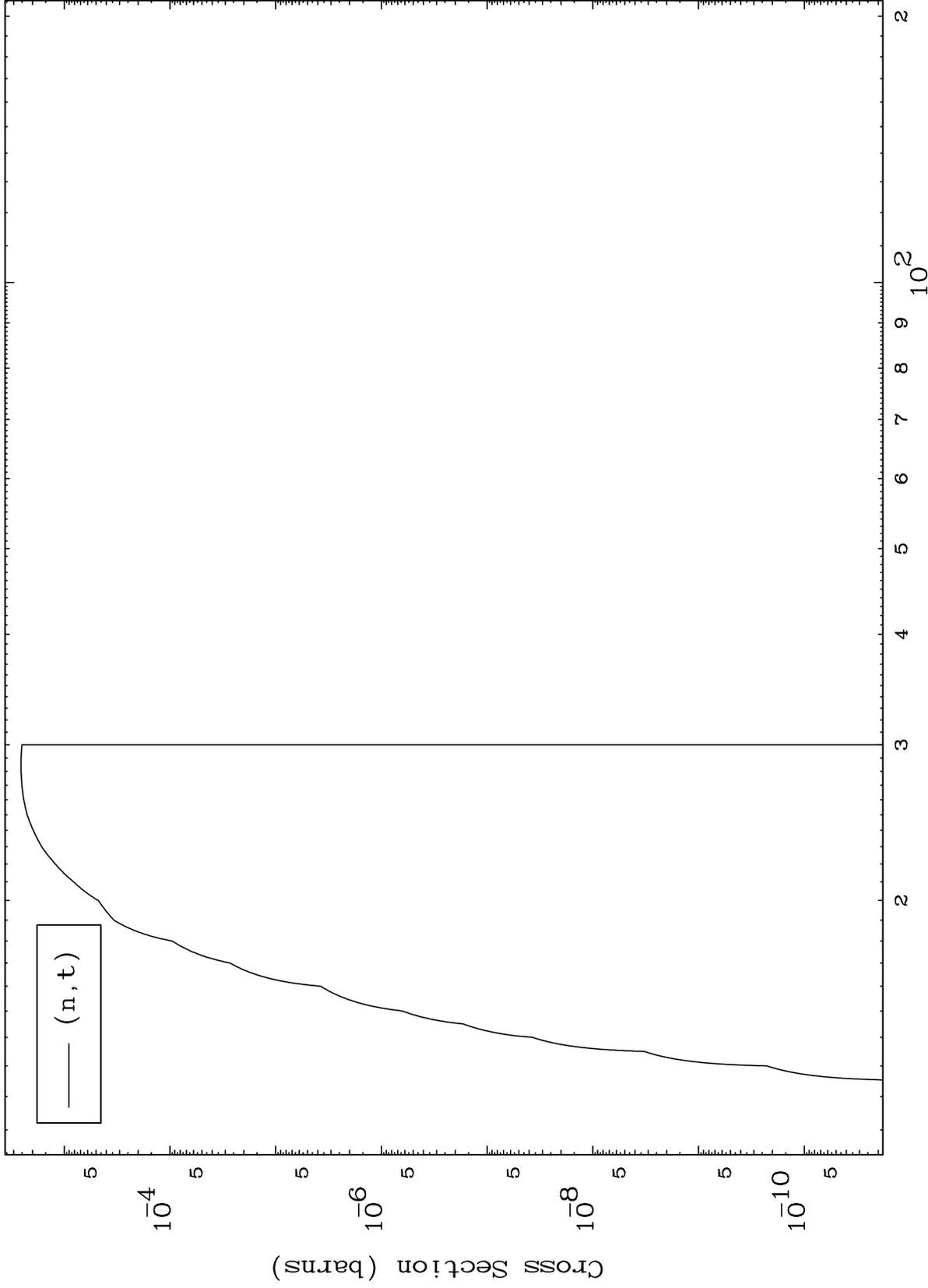
<sup>32</sup>Ge-81



12

Incident Energy (MeV)

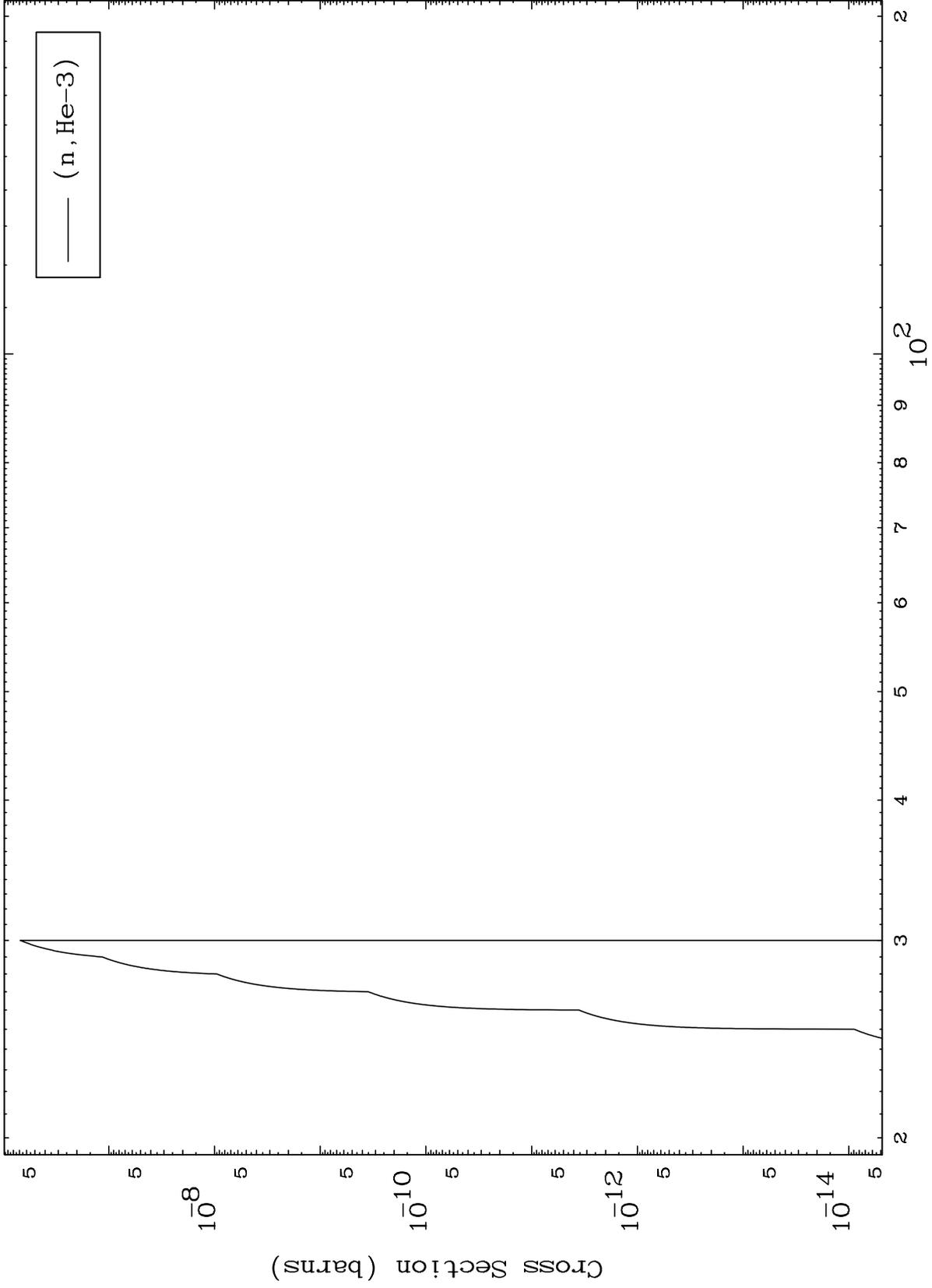
<sup>32</sup>Ge-81



MAT 3258

(n,He3) Levels  
293 Kelvin Cross Sections

32-Ge-81



14

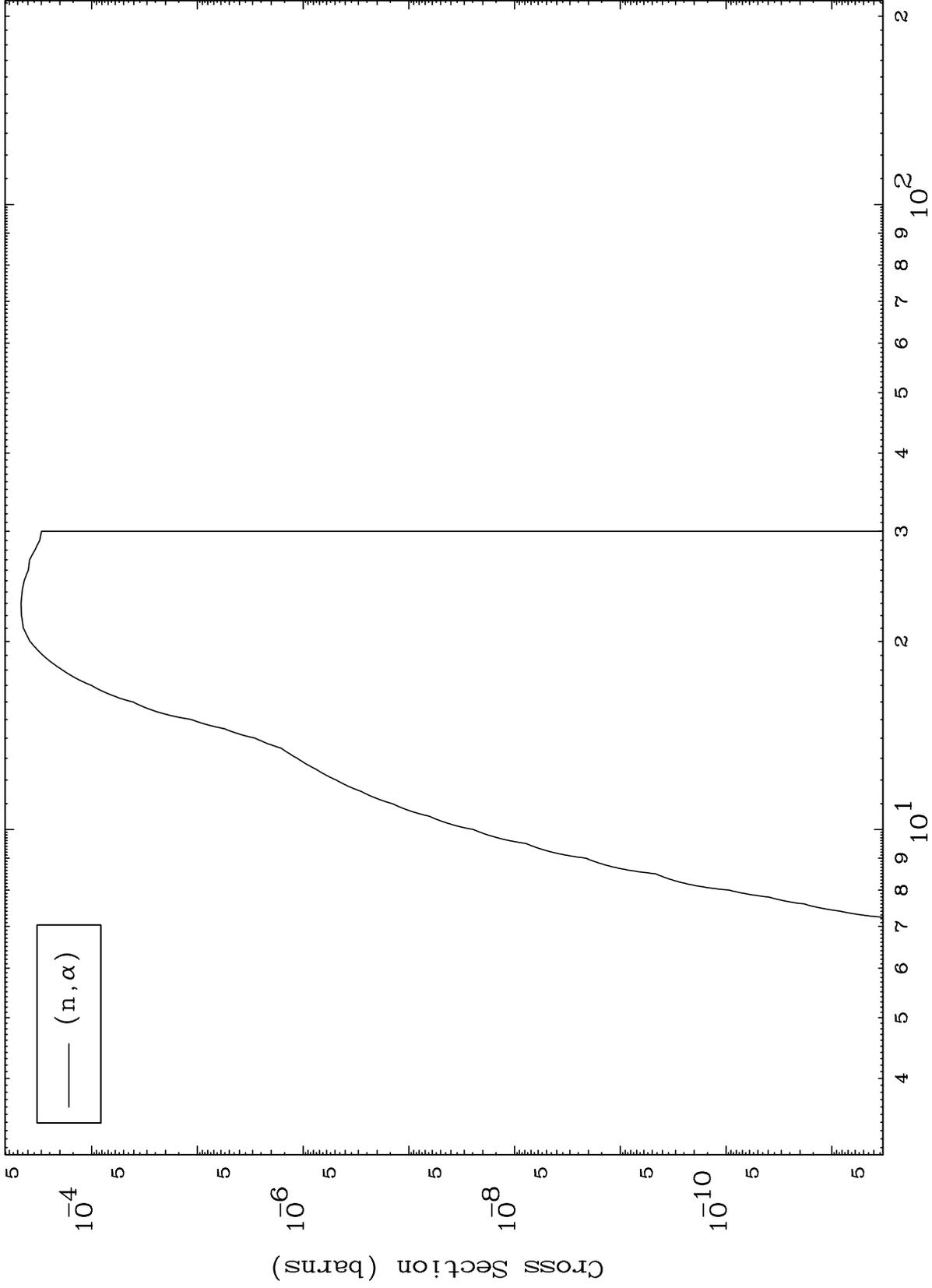
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

<sup>32</sup>Ge-81



15

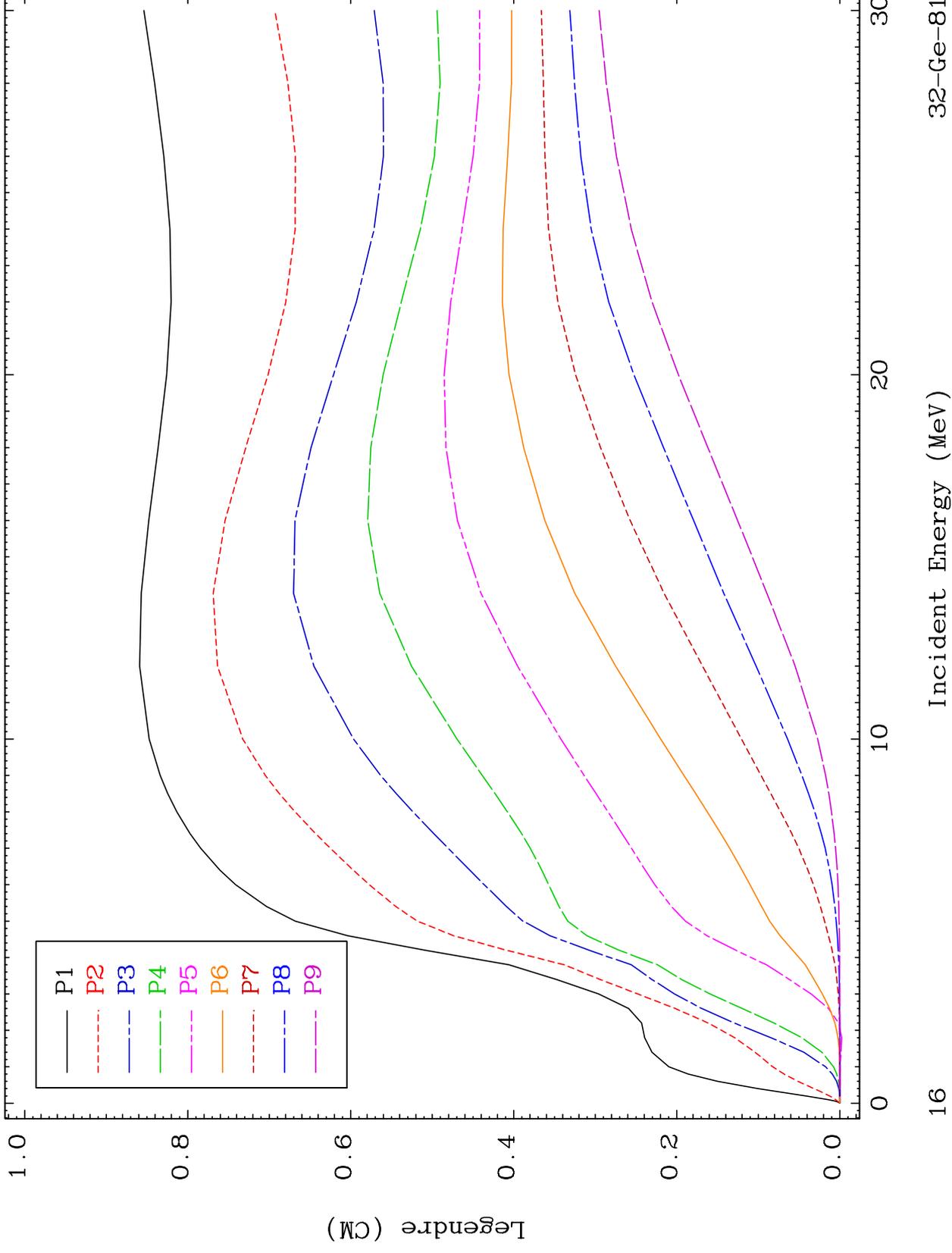
Incident Energy (MeV)

<sup>32</sup>Ge-81

MAT 3258

Elastic Legendre Coefficients

<sup>32</sup>Ge-81

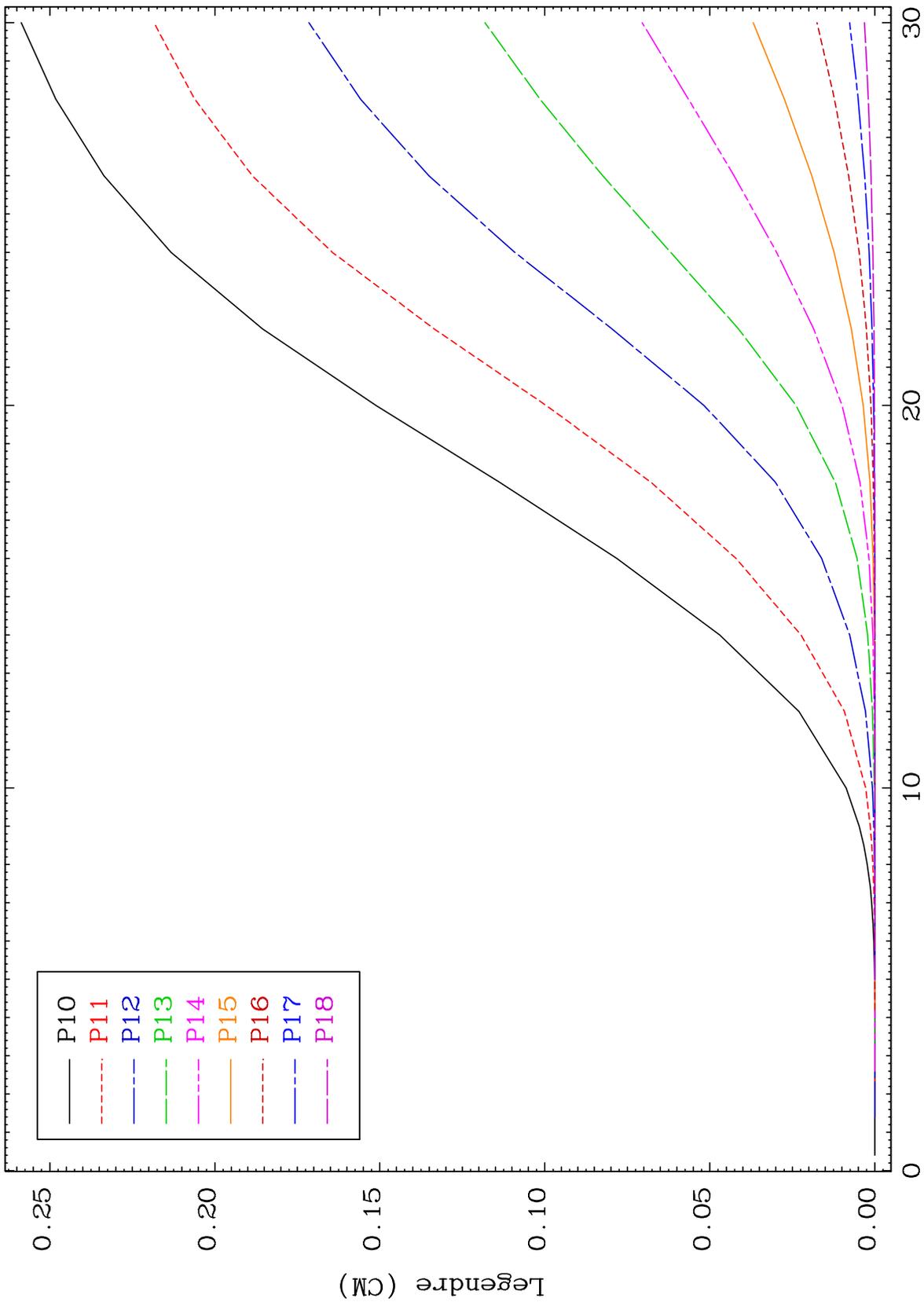


- P1
- P2
- P3
- P4
- P5
- P6
- P7
- P8
- P9

MAT 3258

Elastic Legendre Coefficients

<sup>32</sup>Ge-81



17

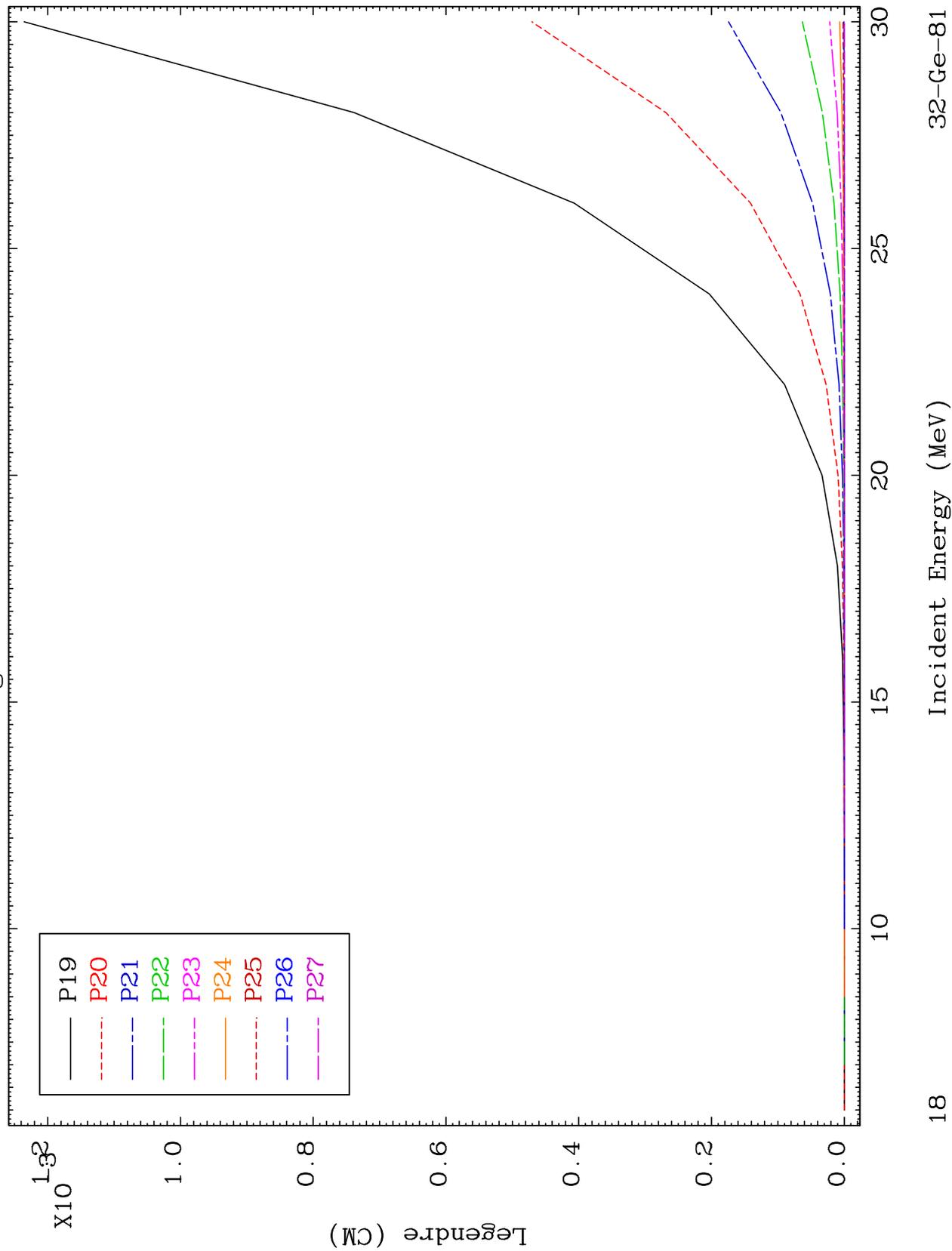
Incident Energy (MeV)

<sup>32</sup>Ge-81

MAT 3258

Elastic Legendre Coefficients

<sup>32</sup>Ge-81



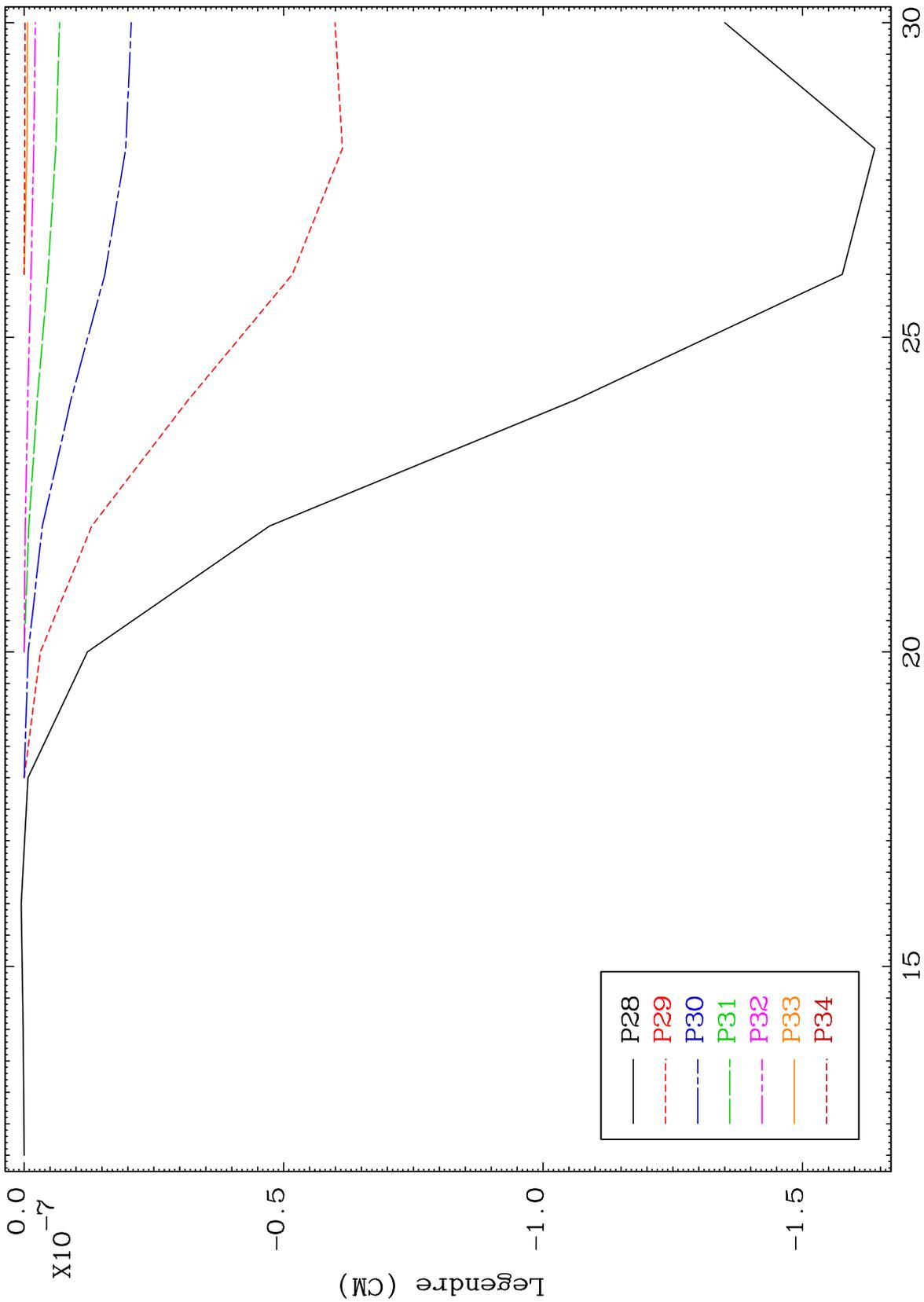
18

<sup>32</sup>Ge-81

MAT 3258

32-Ge-81

Elastic Legendre Coefficients

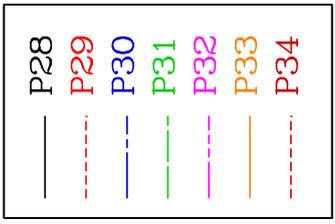


Legendre (CM)  
 $\times 10^{-7}$

32-Ge-81

Incident Energy (MeV)

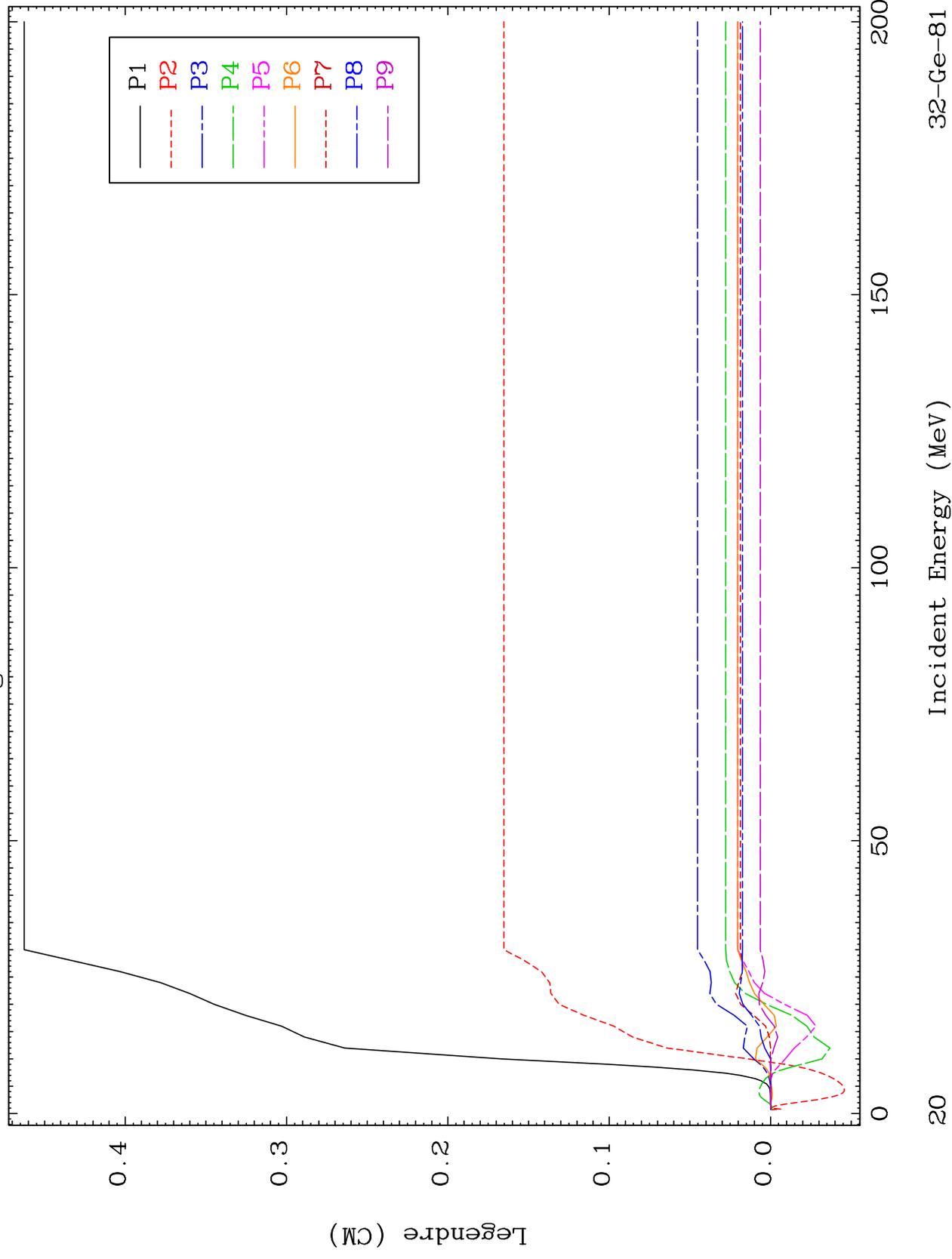
19



MAT 3258

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

32-Ge-81



32-Ge-81

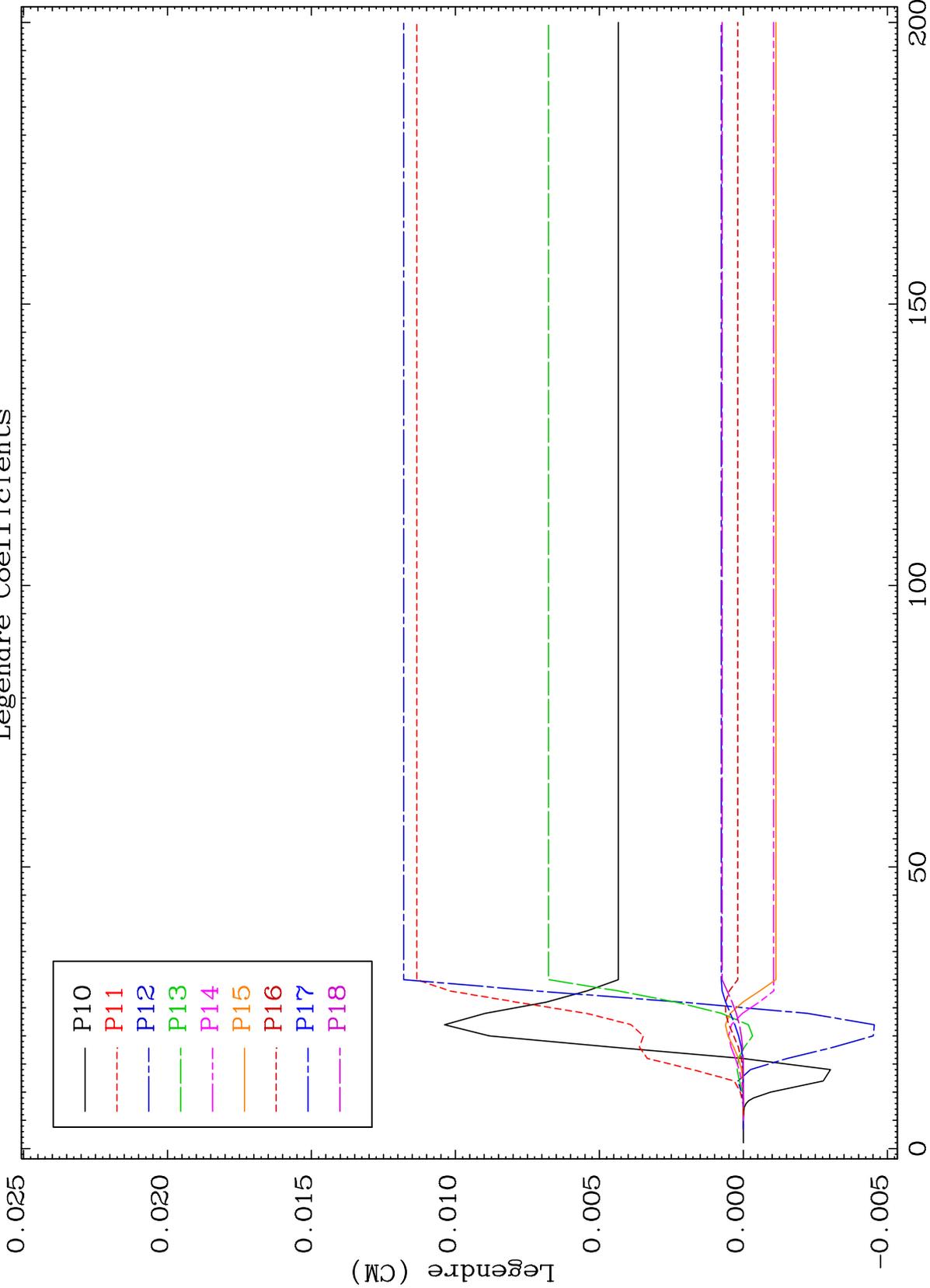
Incident Energy (MeV)

0

MAT 3258

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

32-Ge-81



21

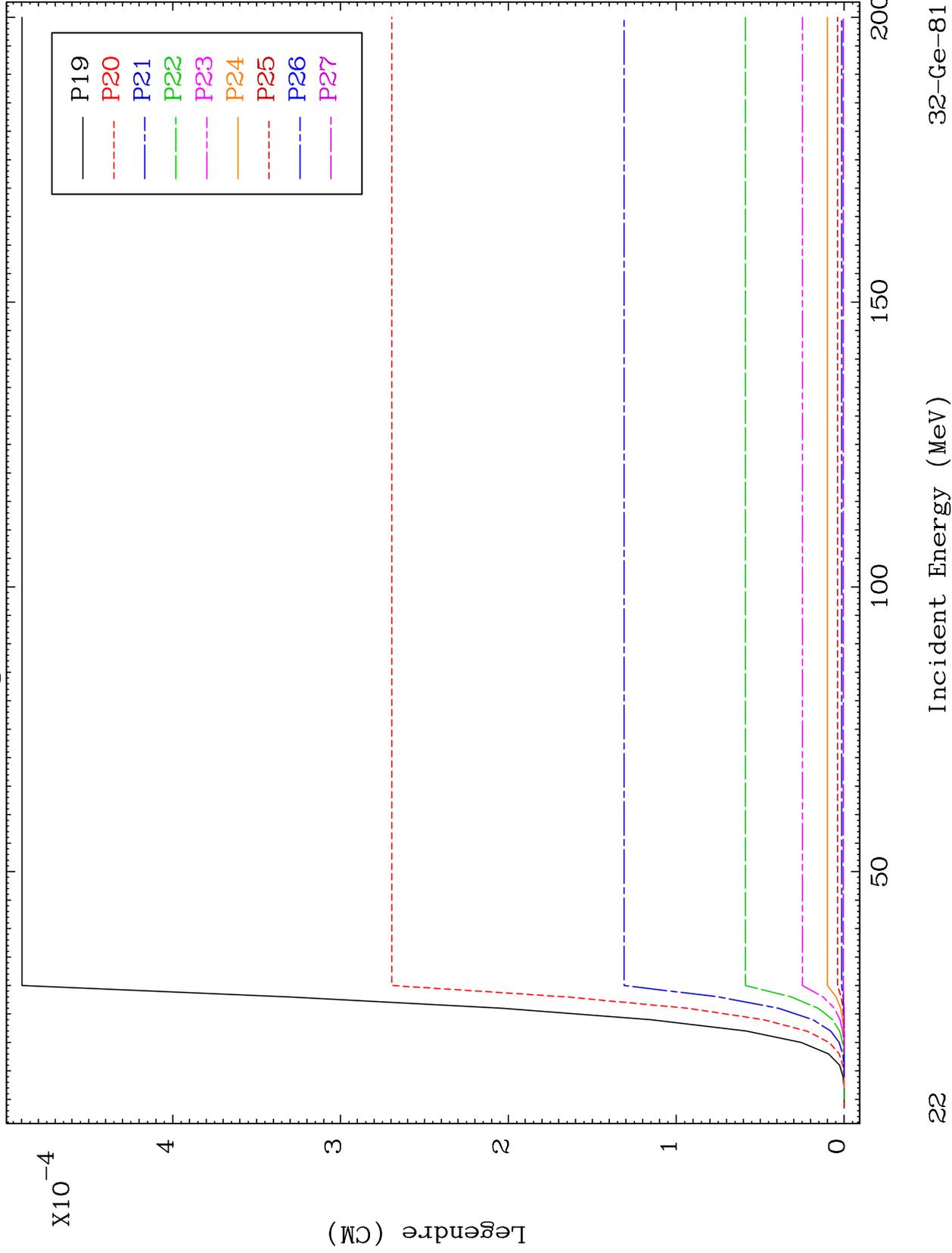
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



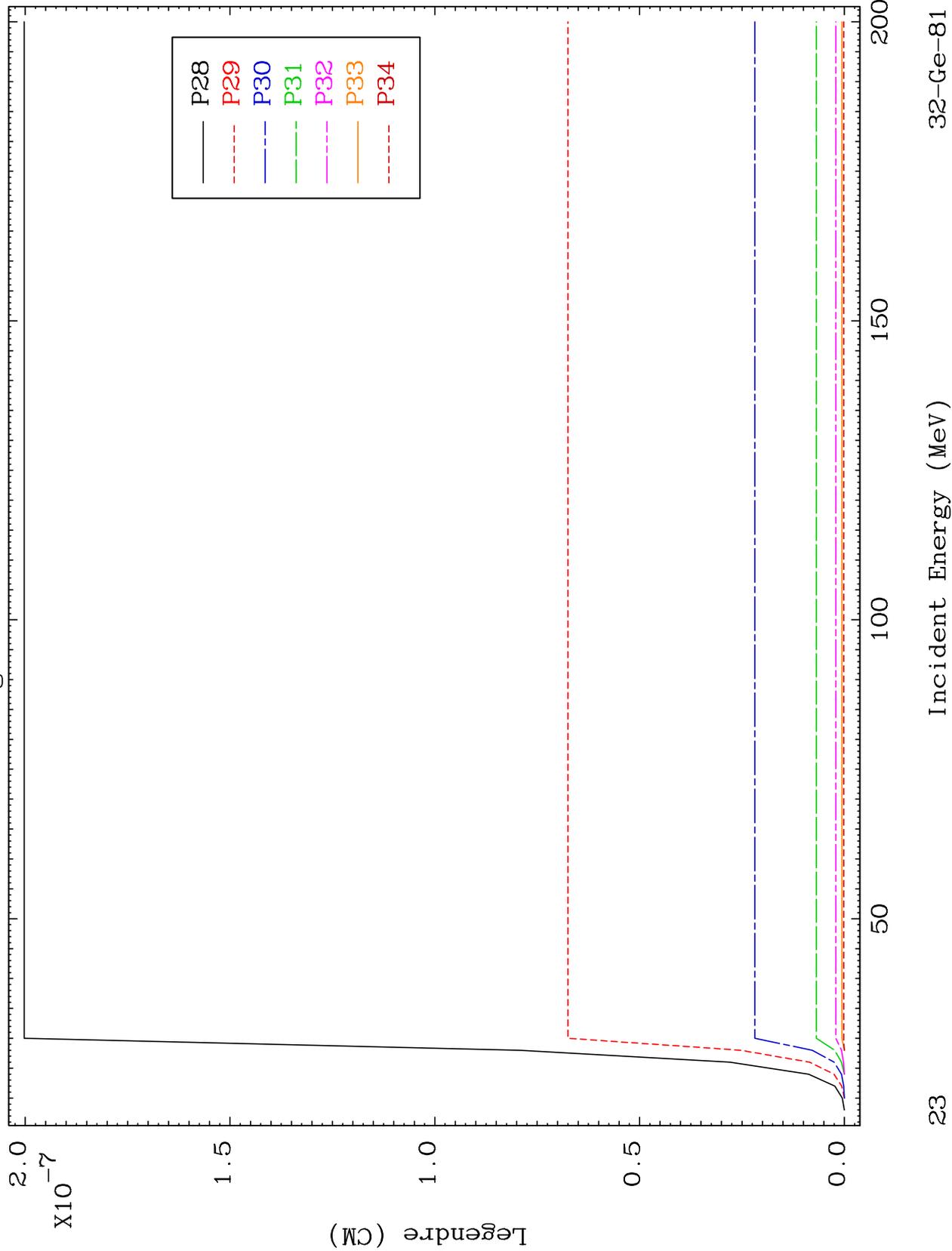
22

32-Ge-81

MAT 3258

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

32-Ge-81



23

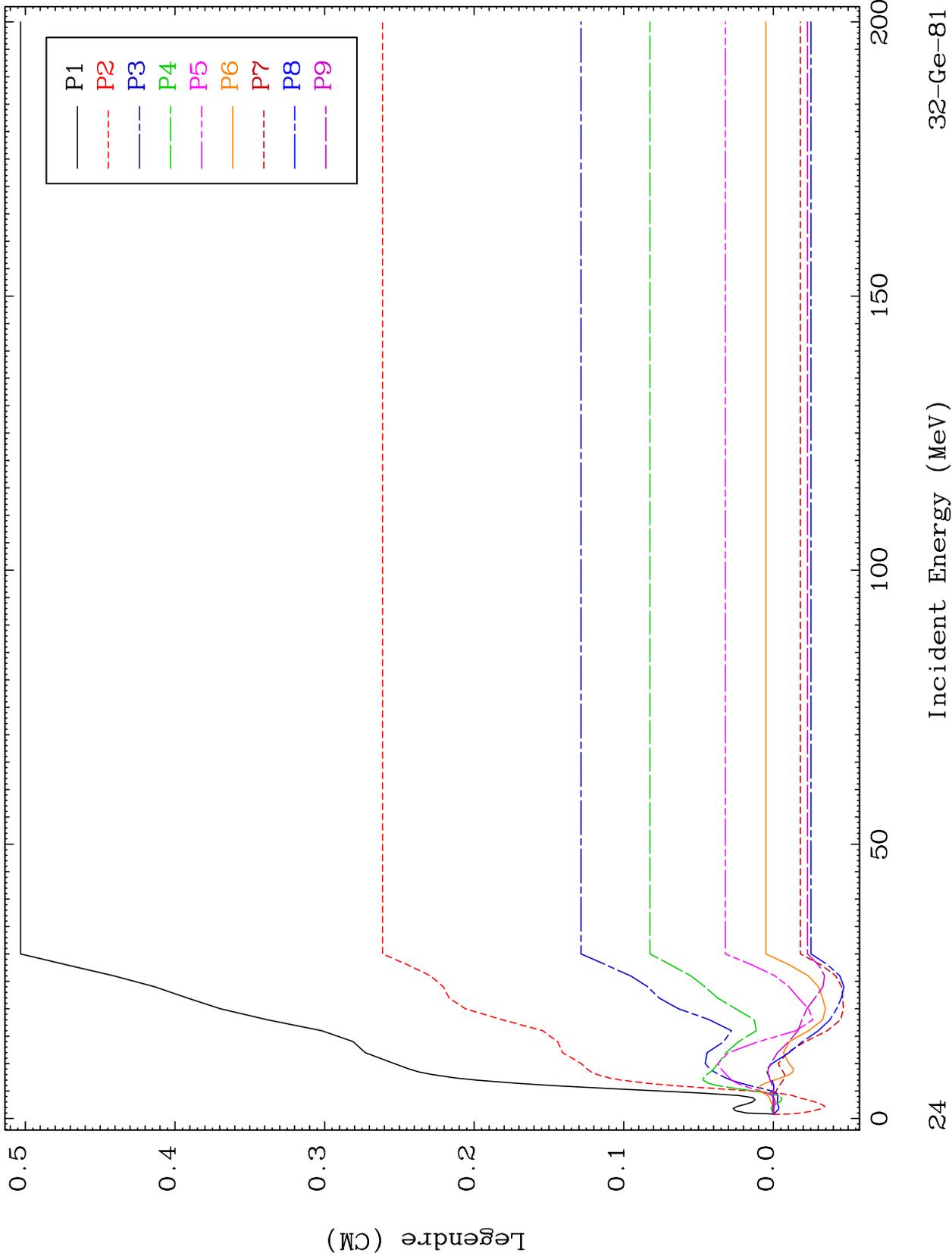
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

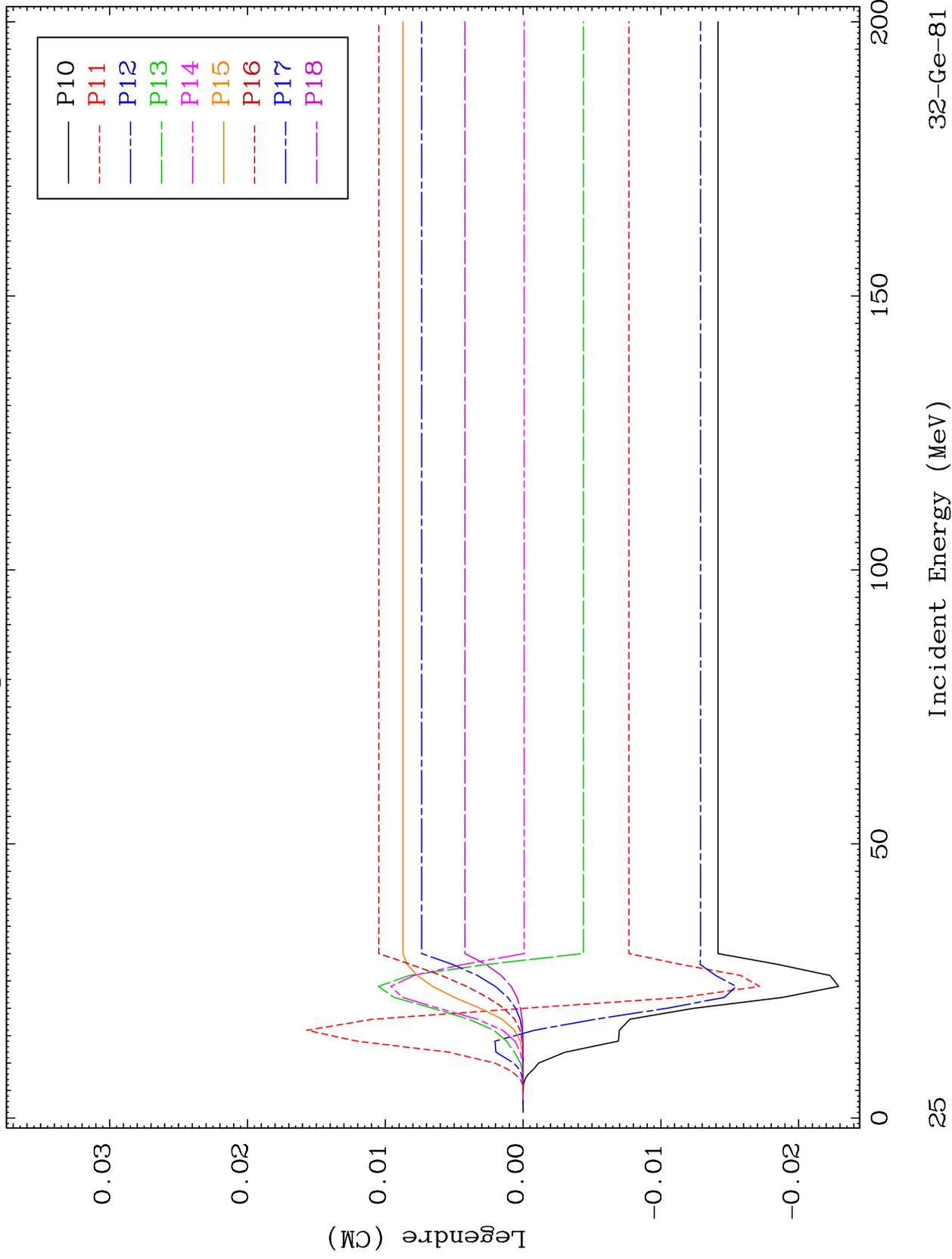
Incident Energy (MeV)

24

MAT 3258

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

32-Ge-81



32-Ge-81

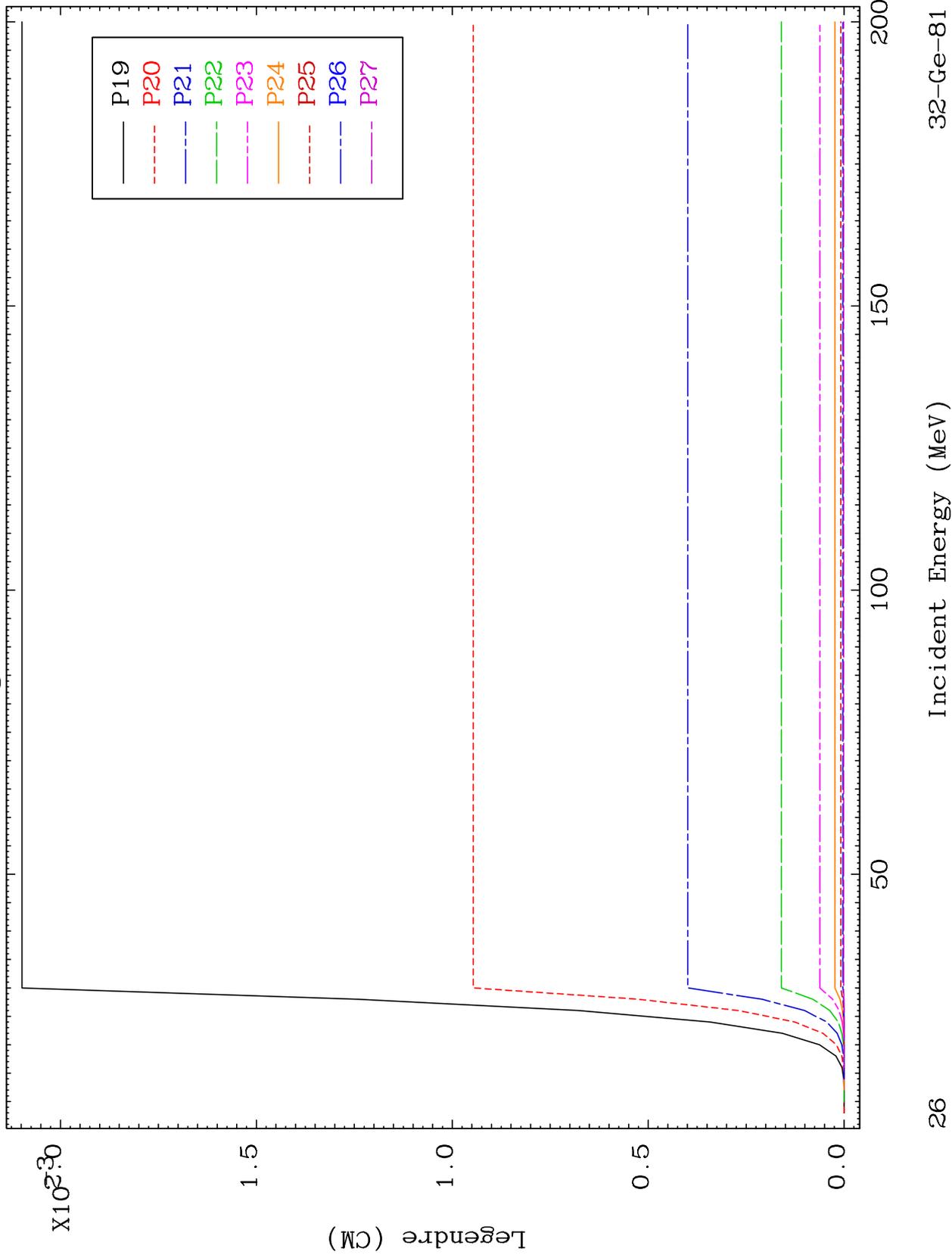
Incident Energy (MeV)

25

MAT 3258

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

32-Ge-81



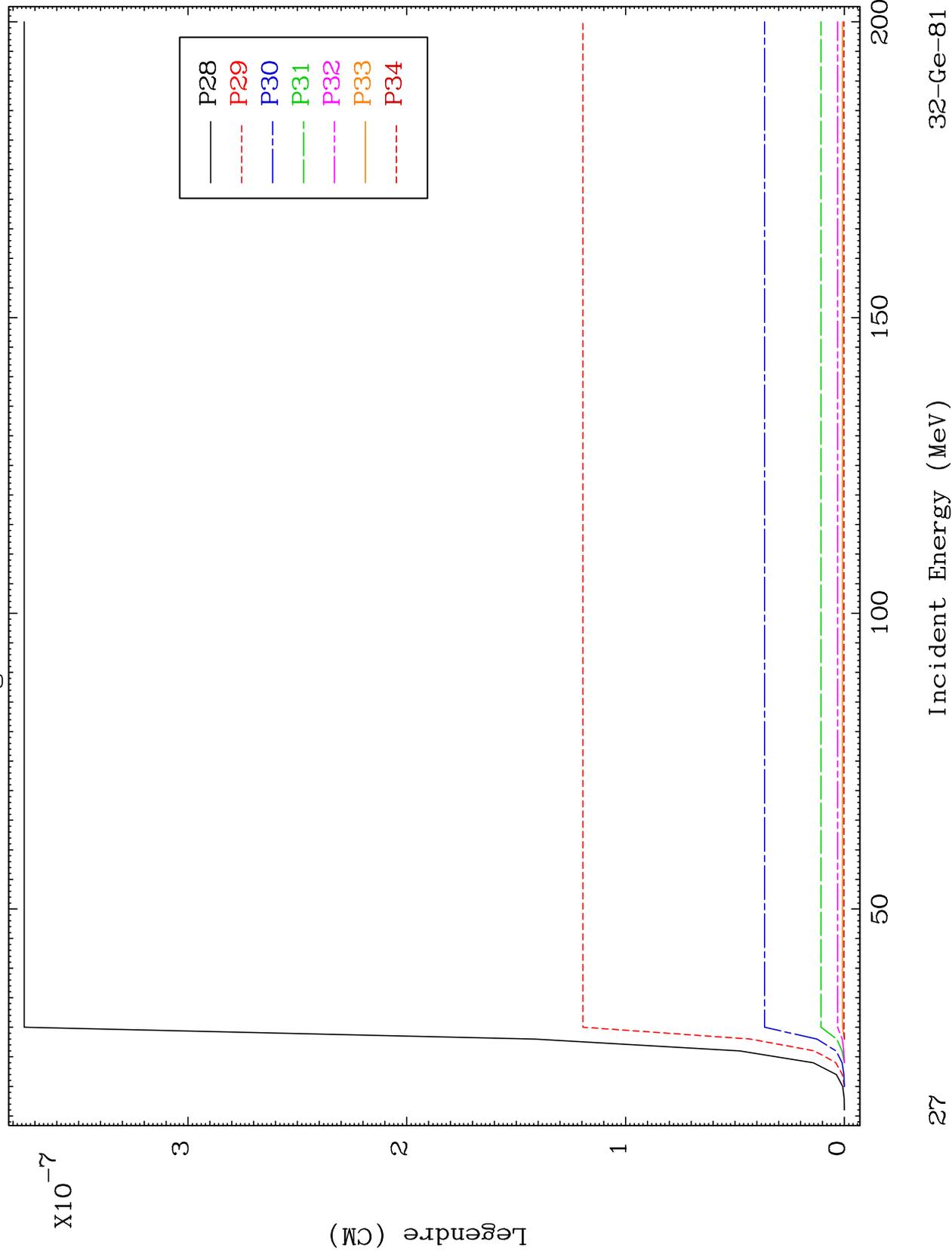
26

32-Ge-81

MAT 3258

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

32-Ge-81



27

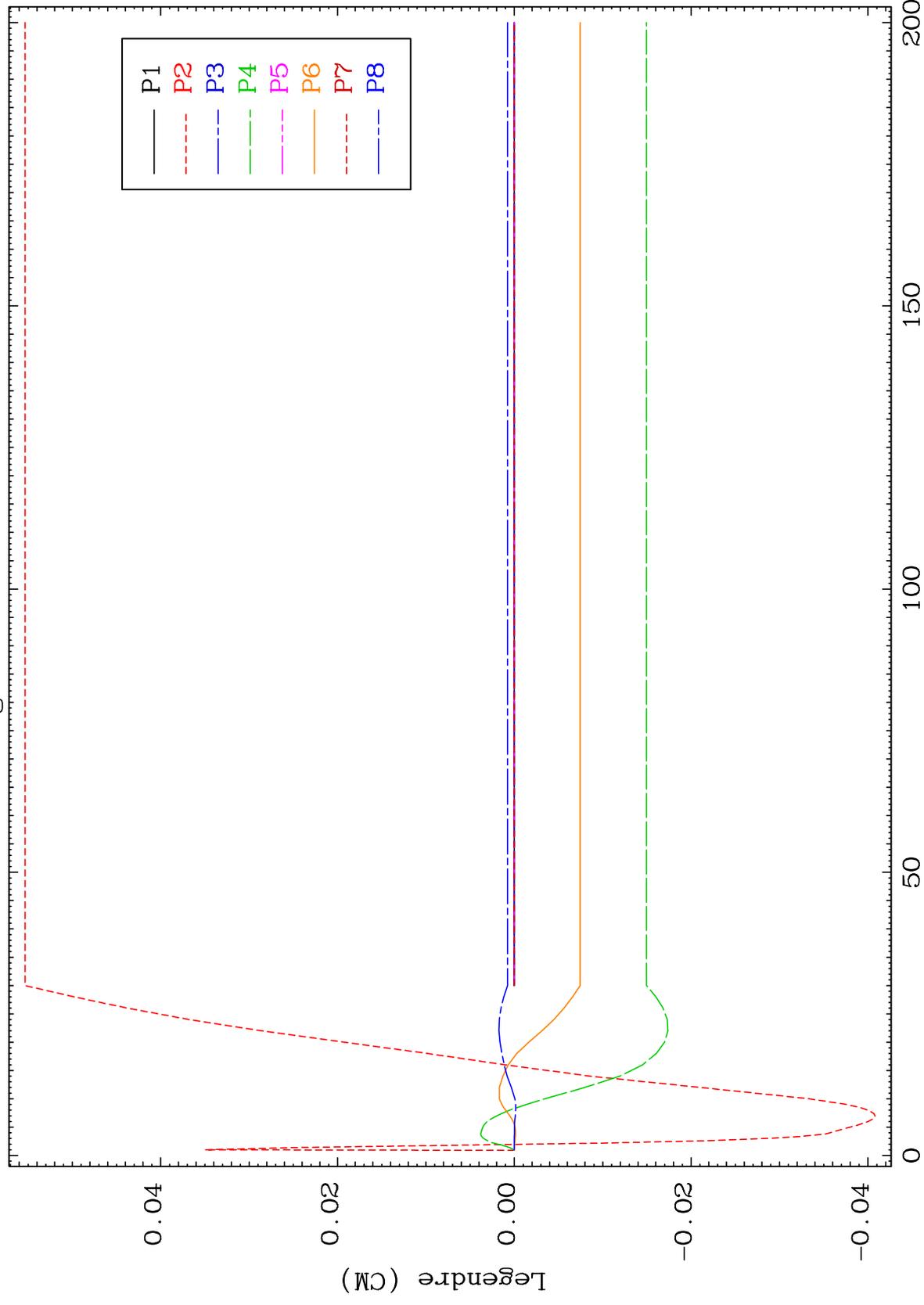
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81

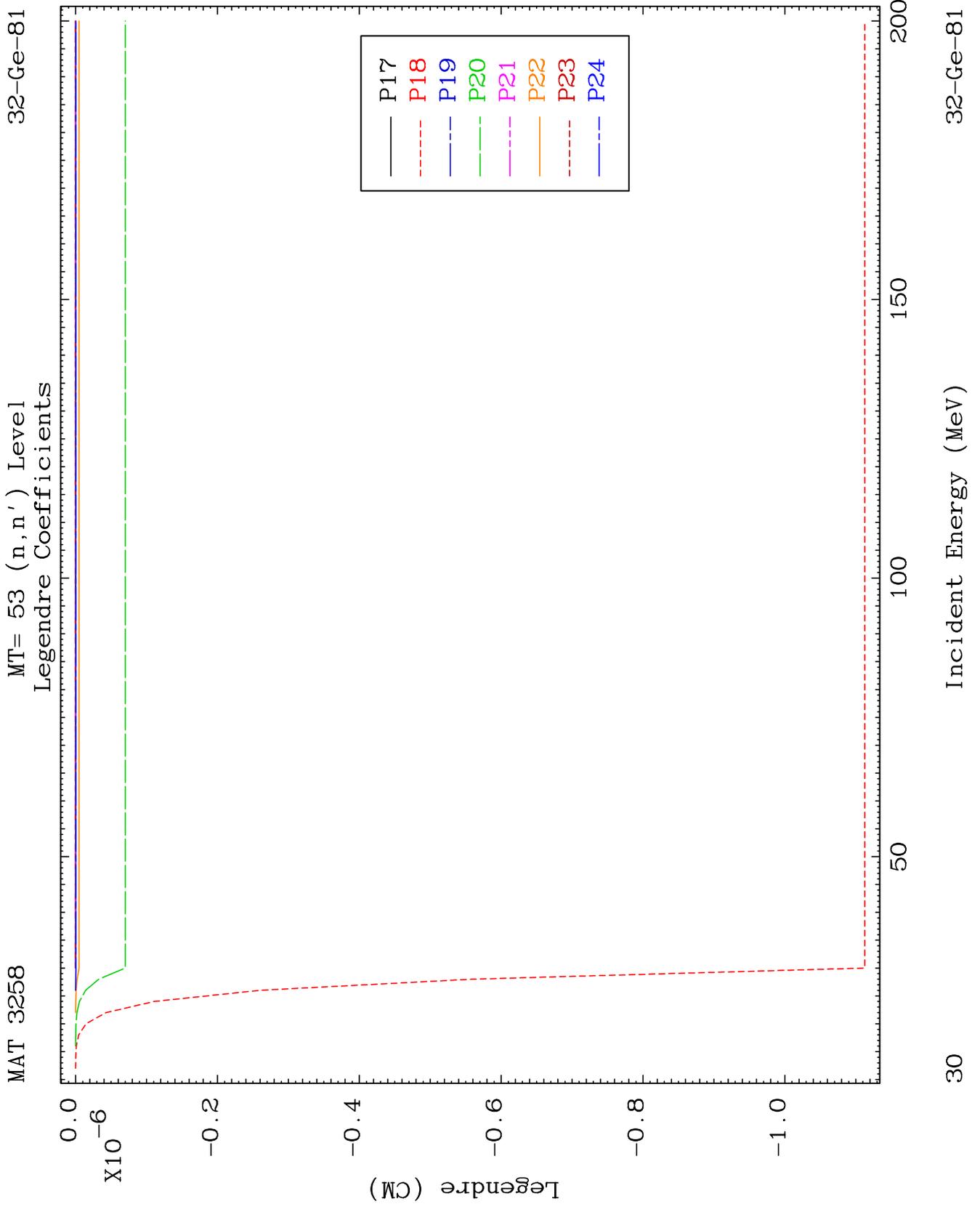


28

Incident Energy (MeV)

32-Ge-81



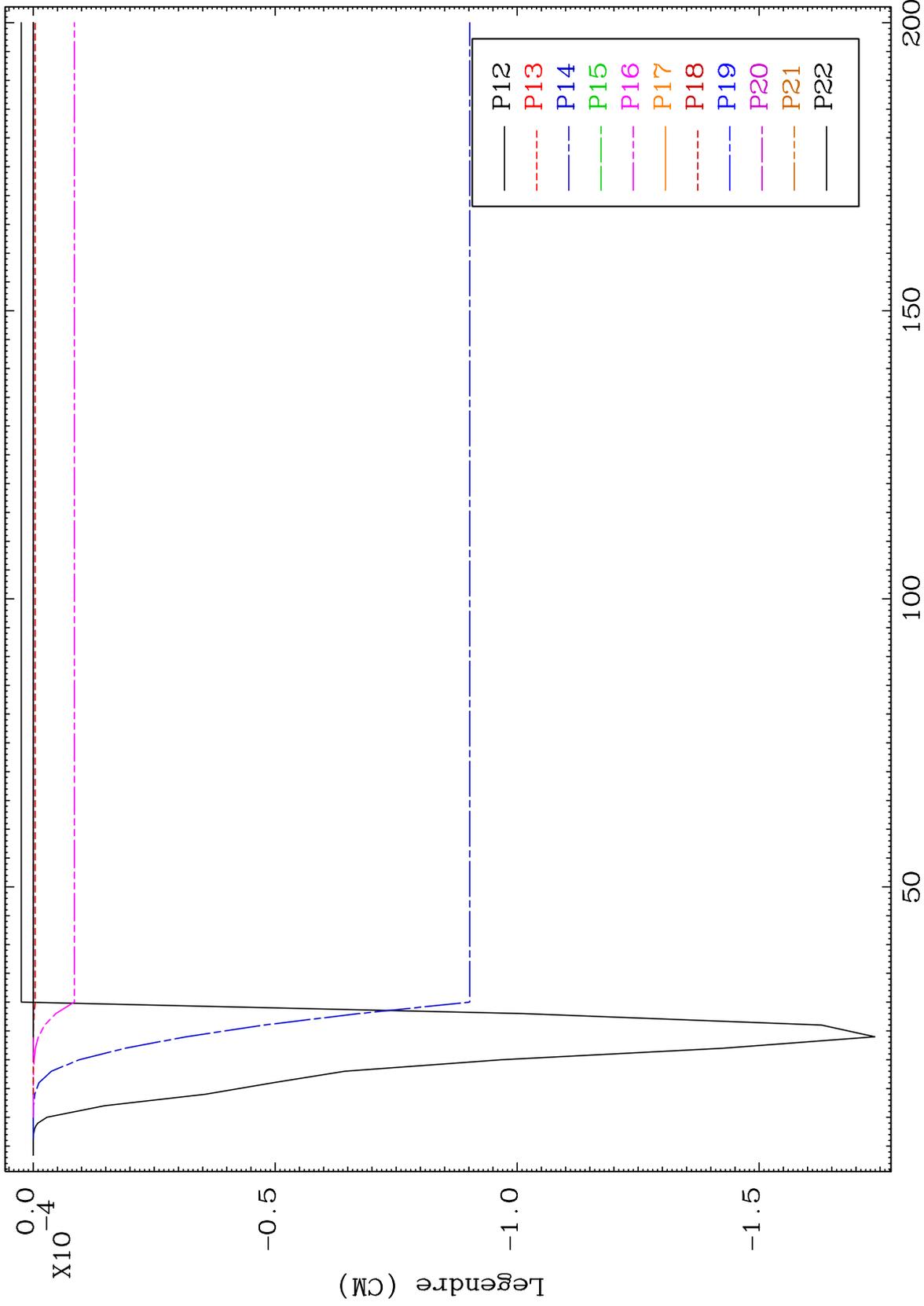




MAT 3258

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

32-Ge-81



32

Incident Energy (MeV)

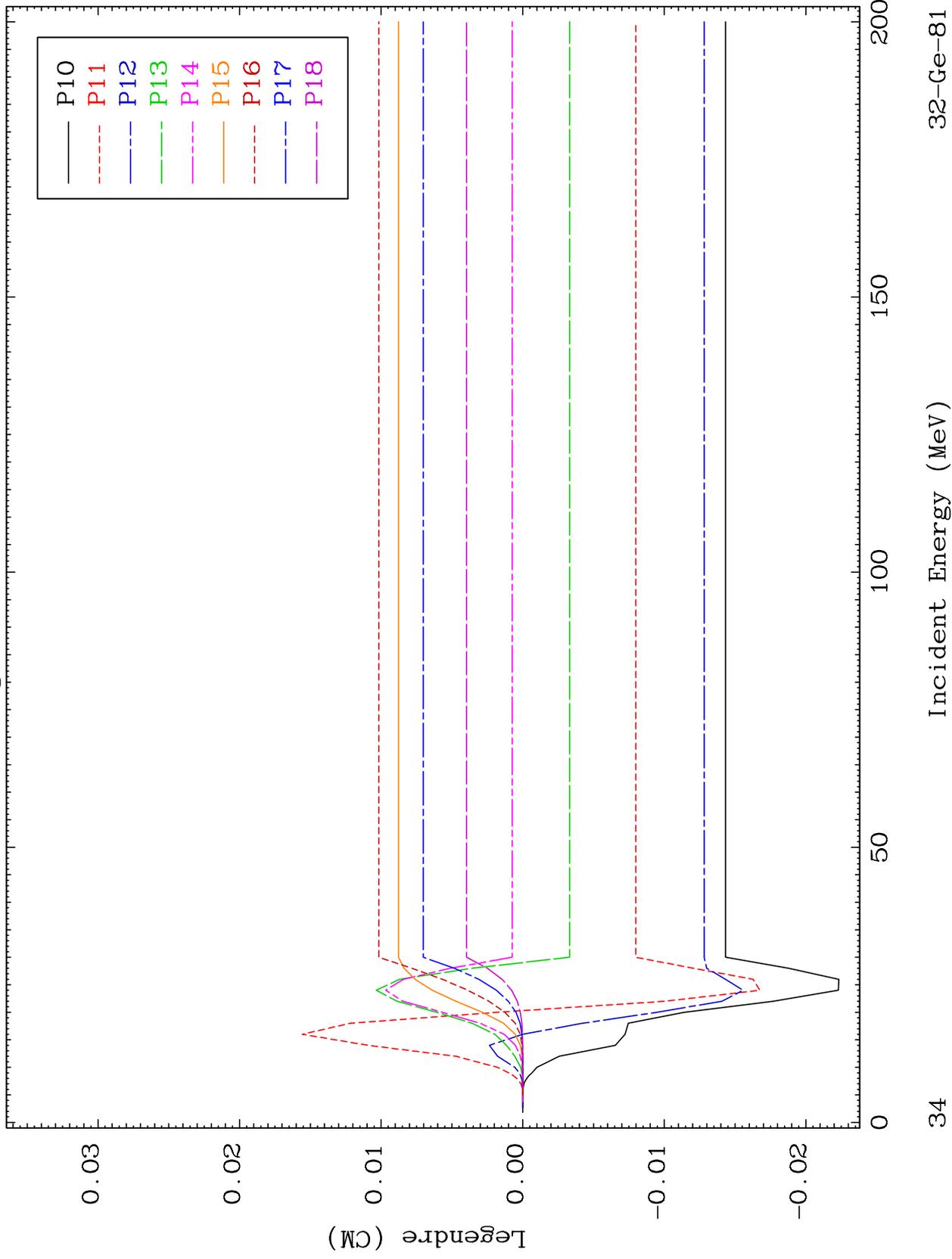
32-Ge-81



MAT 3258

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

32-Ge-81



34

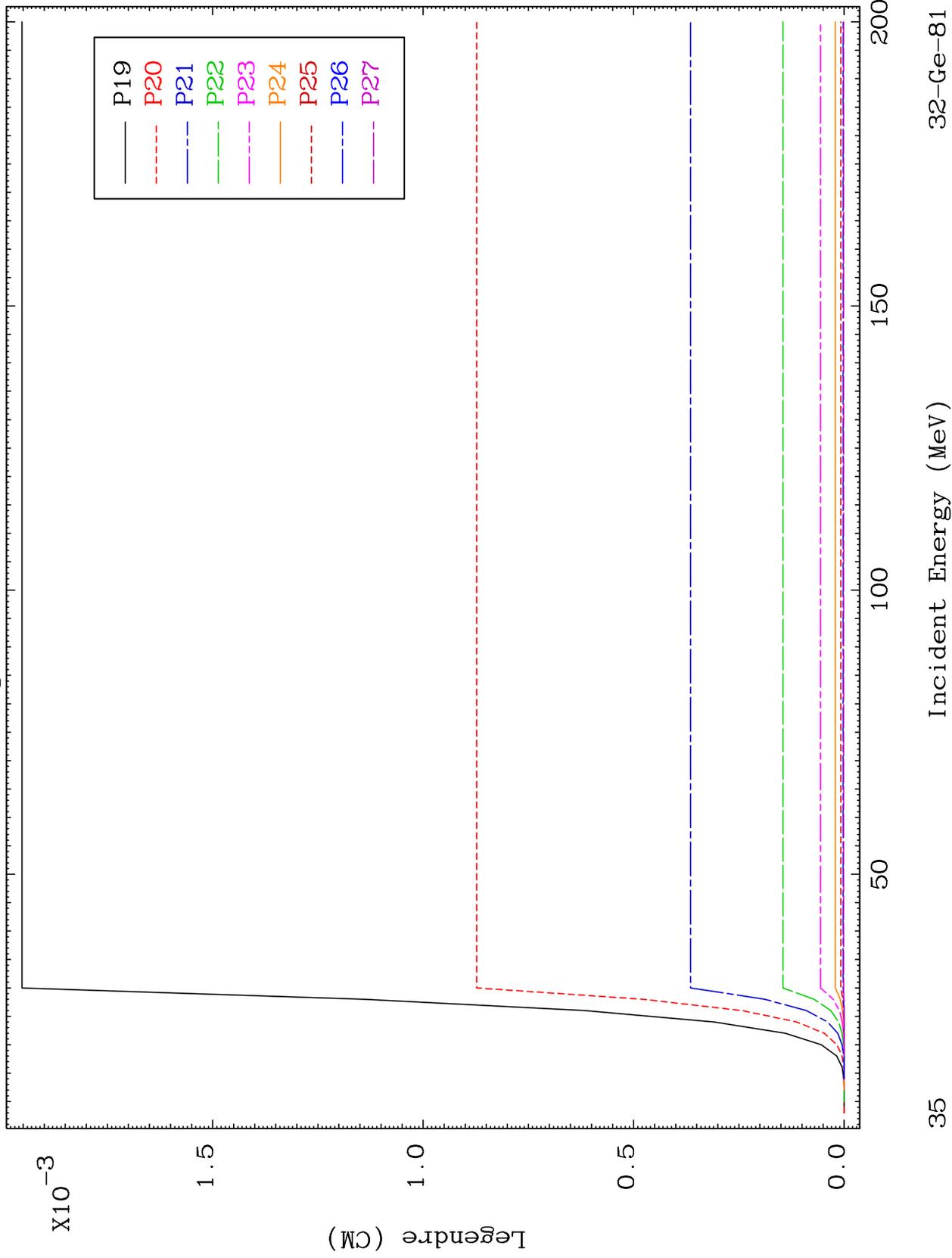
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

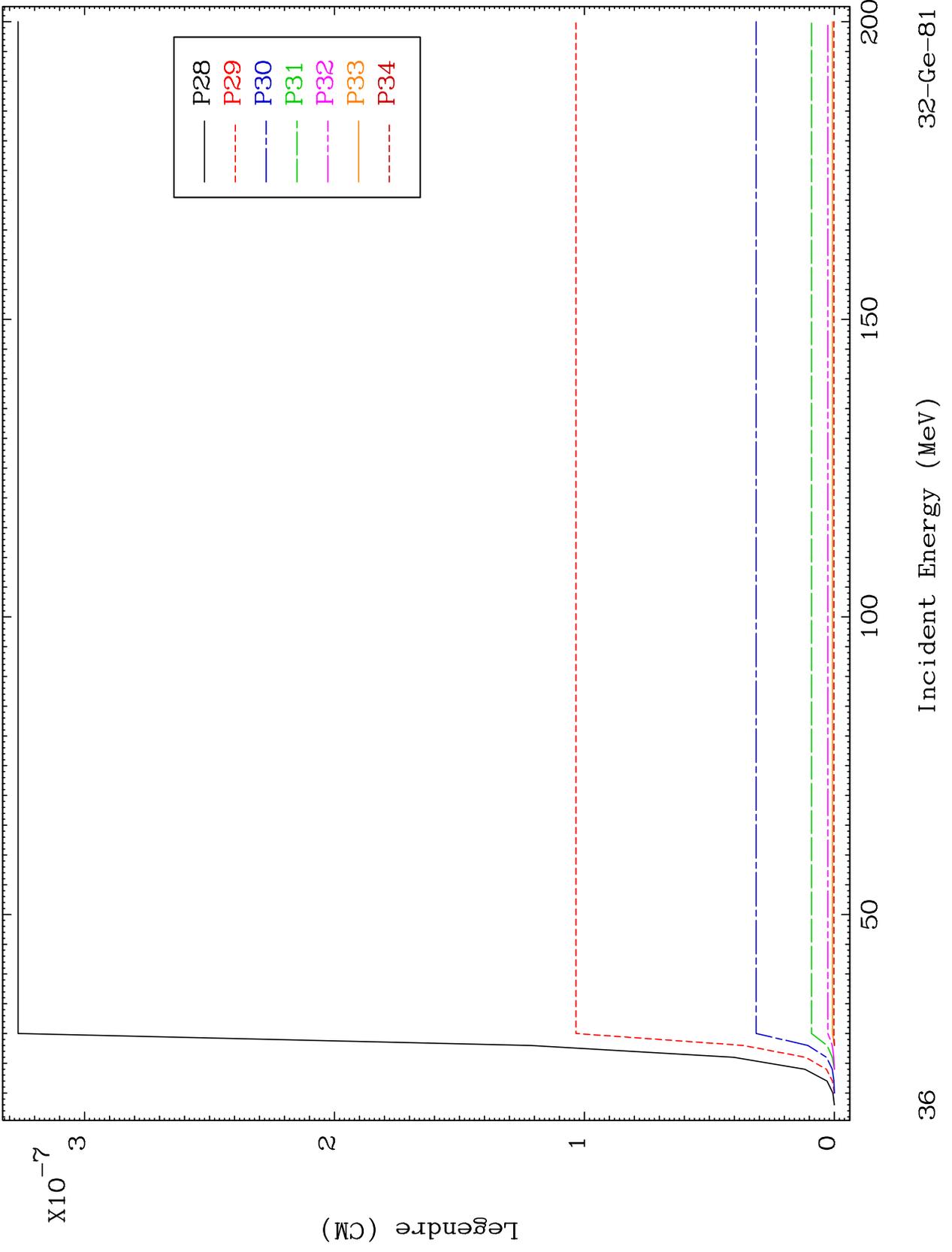
32-Ge-81



MAT 3258

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

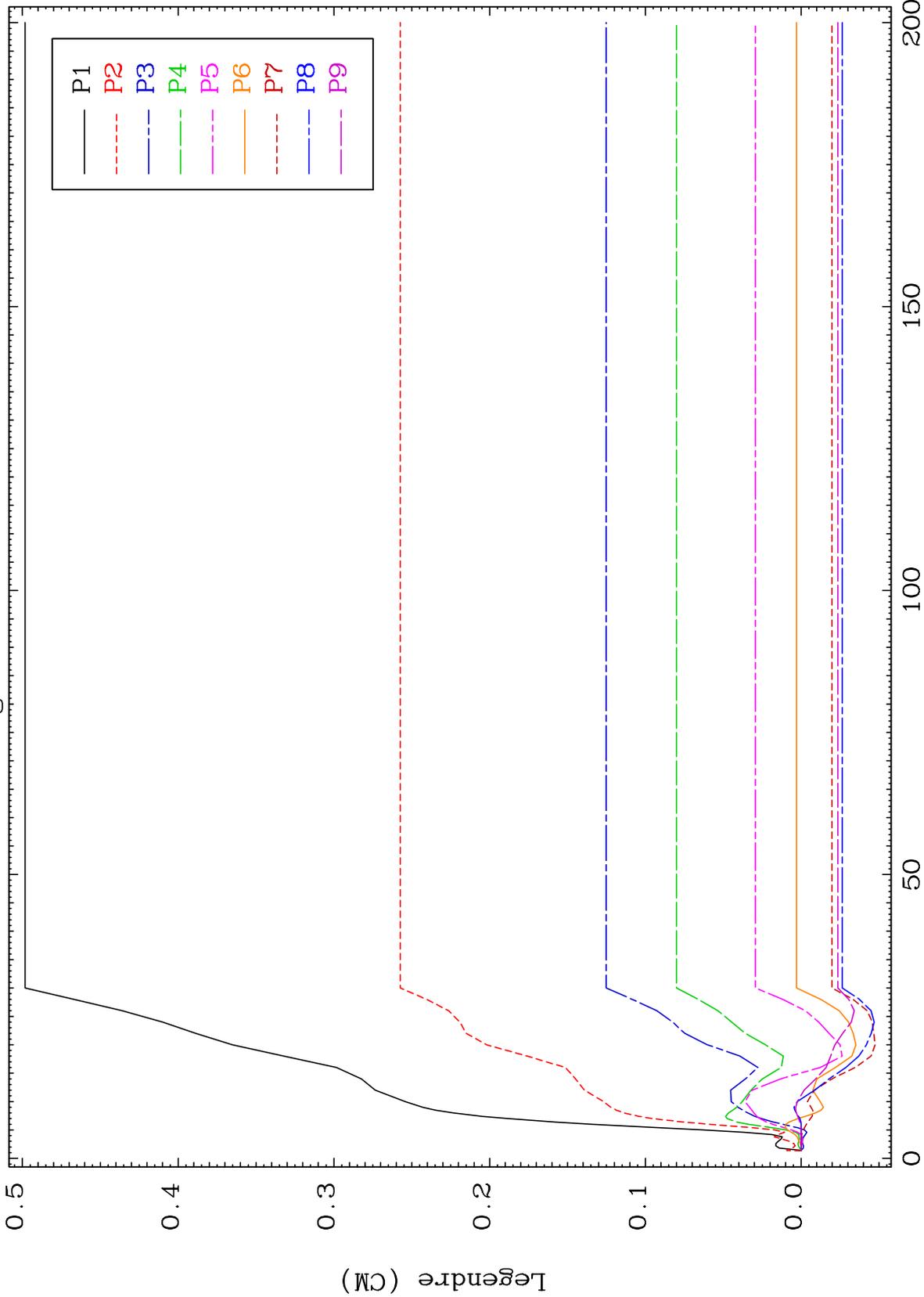
32-Ge-81



MAT 3258

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

32-Ge-81



37

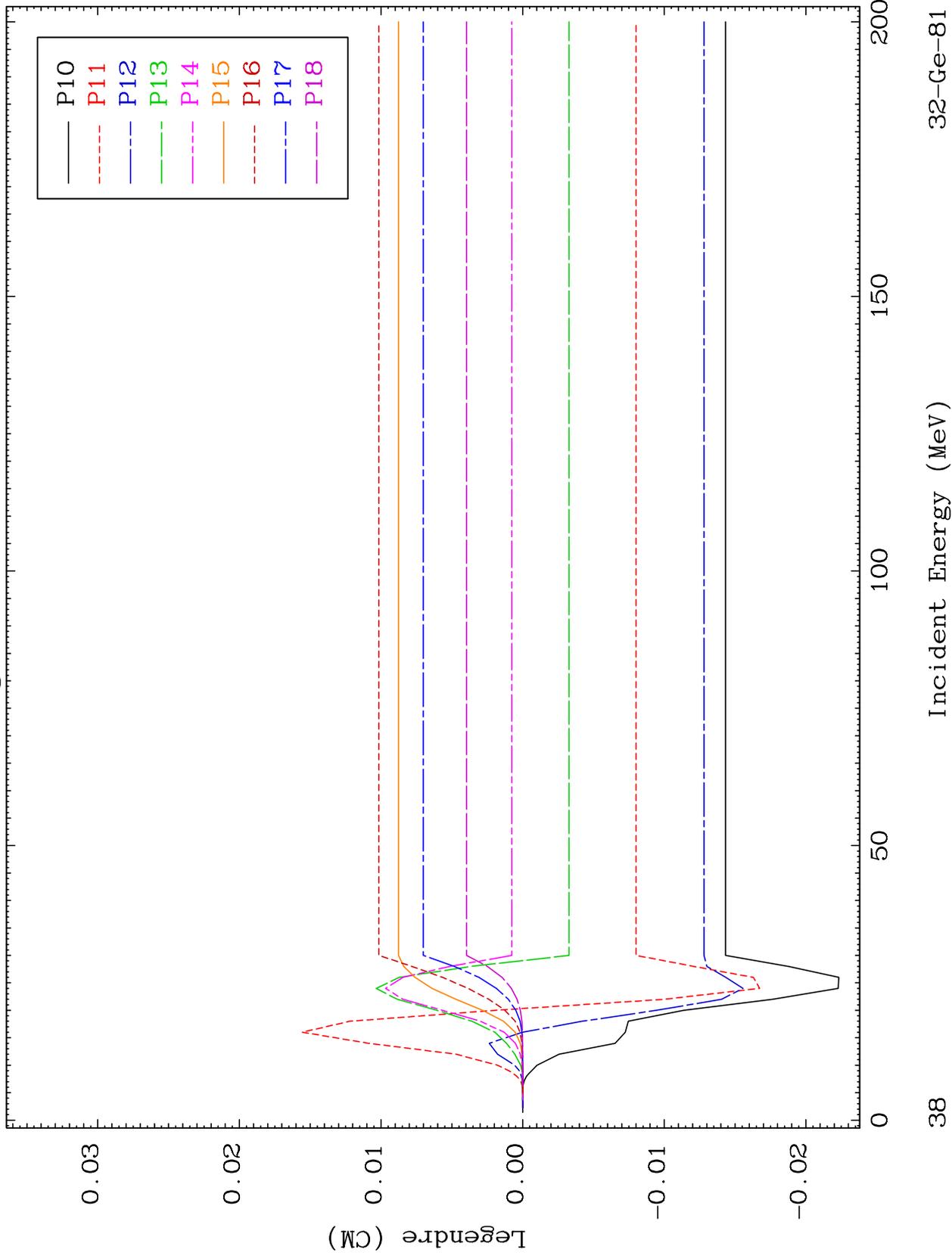
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



38

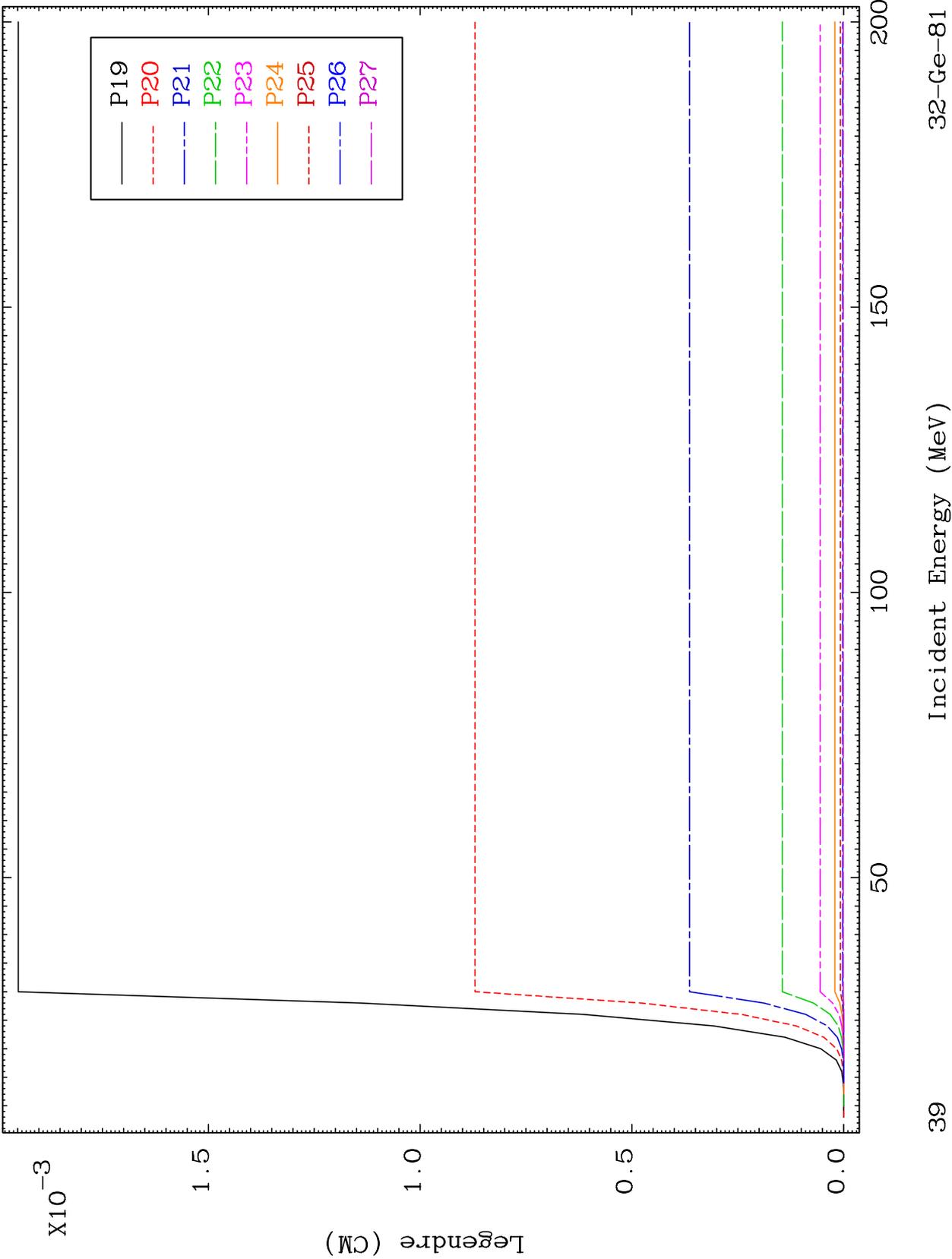
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



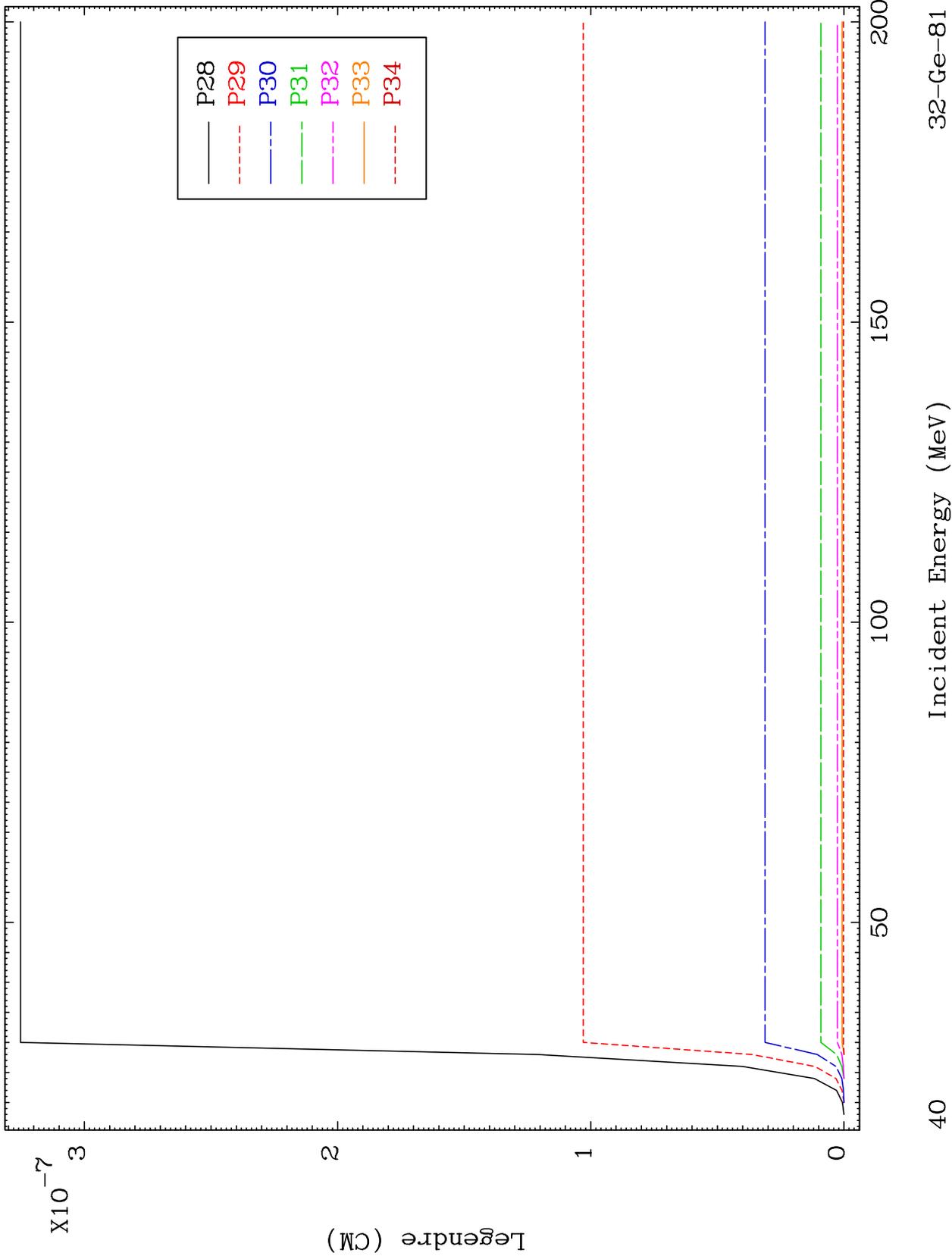
39

32-Ge-81

MAT 3258

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

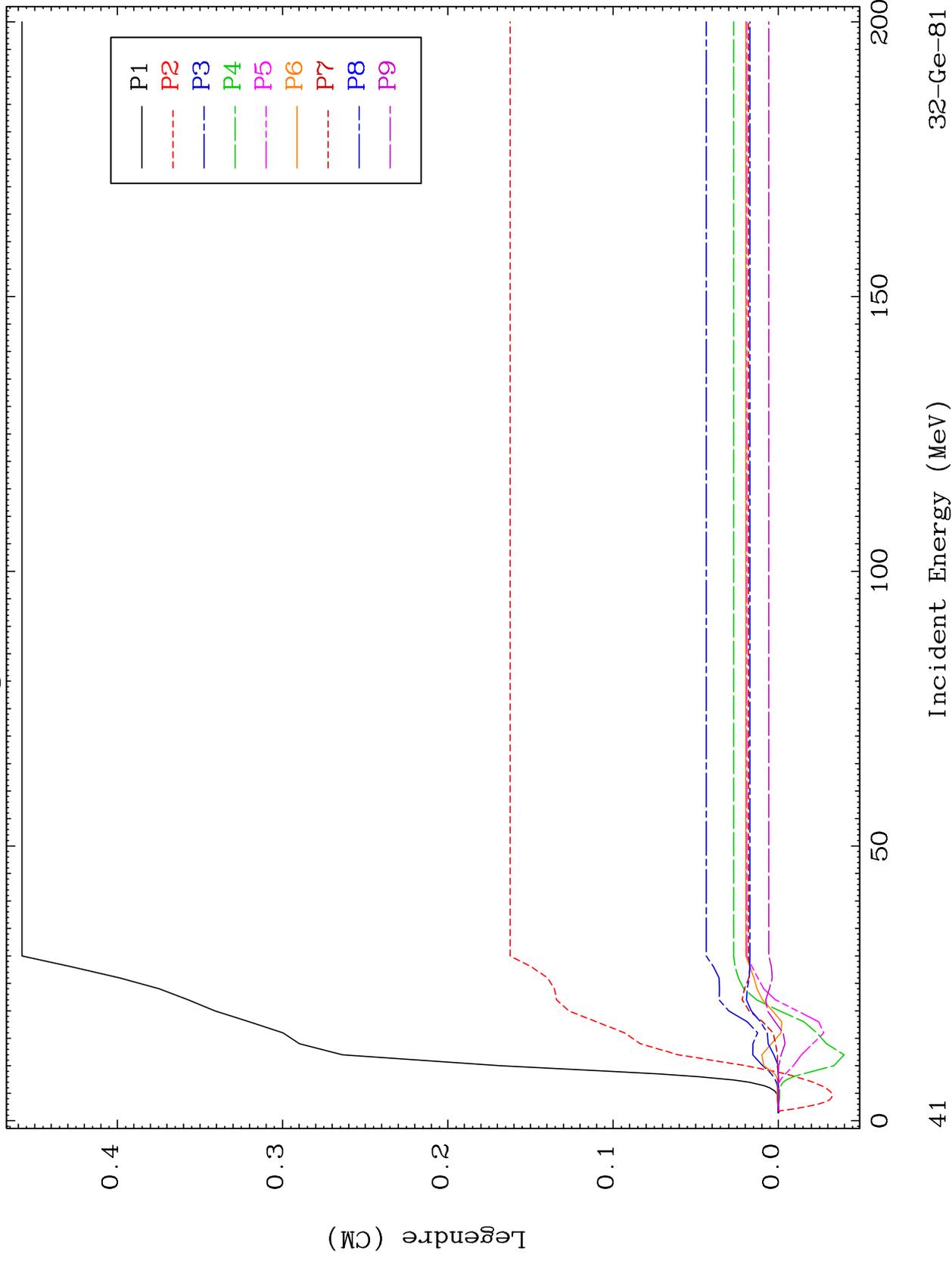
32-Ge-81



MAT 3258

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

32-Ge-81



41

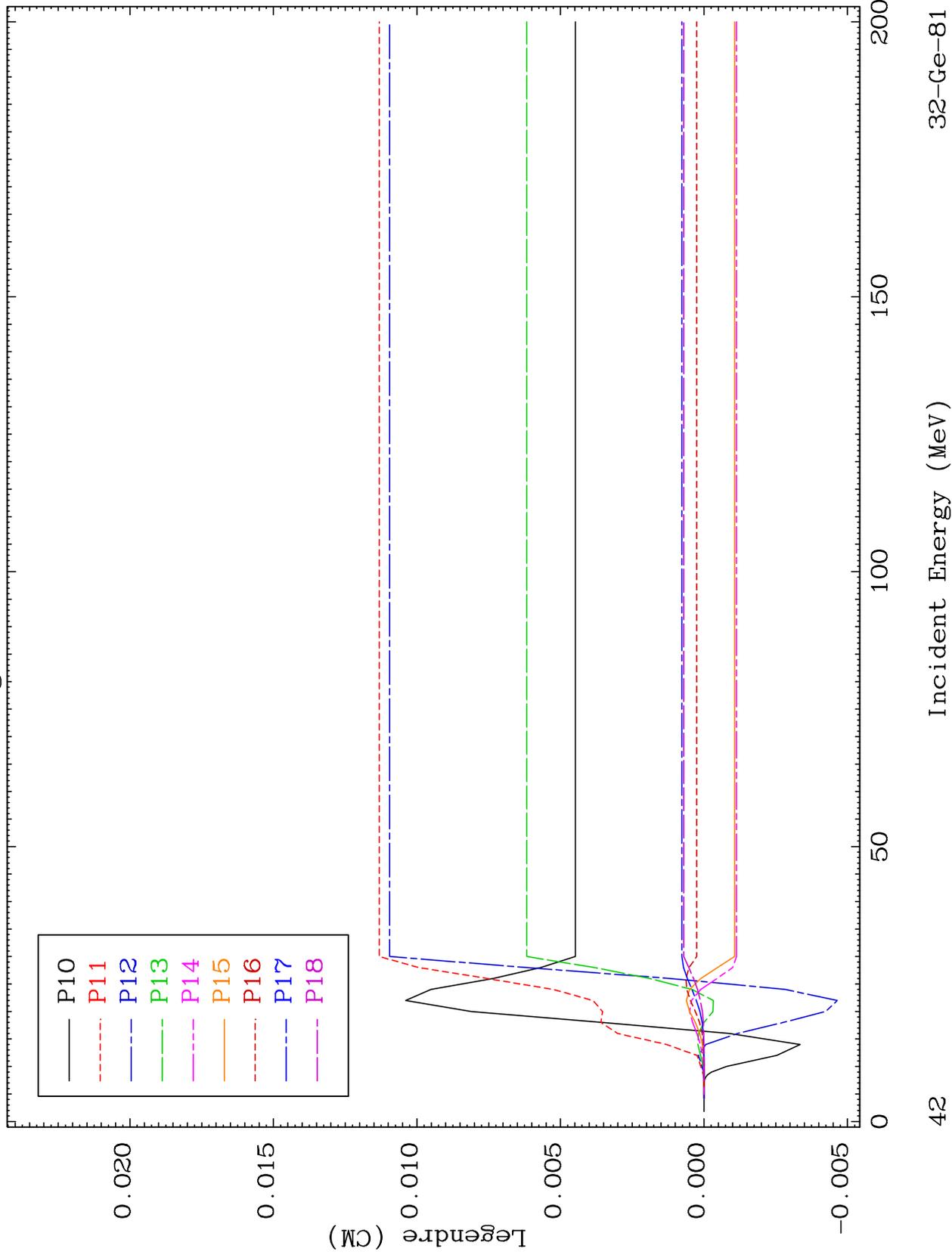
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

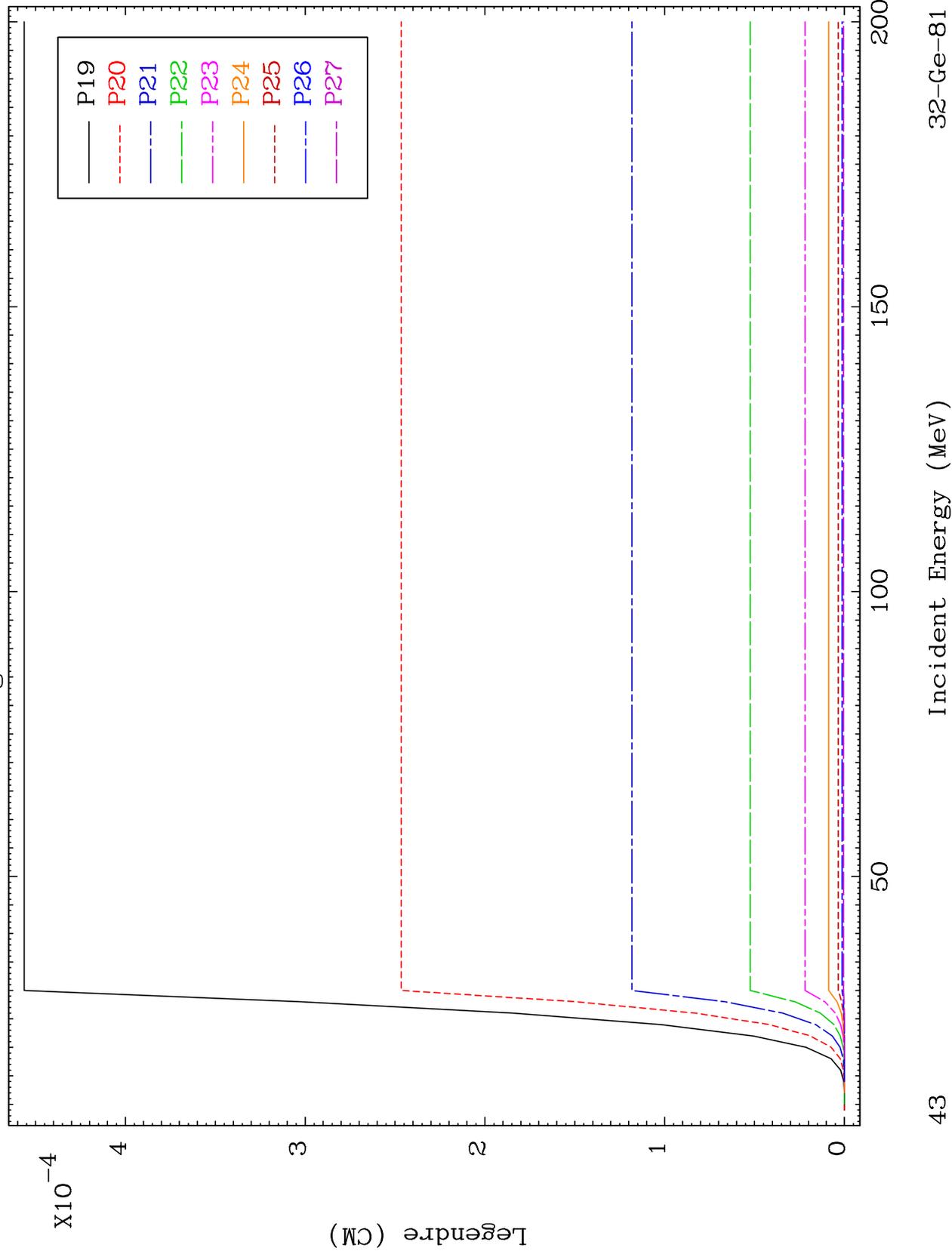
Incident Energy (MeV)

42

MAT 3258

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

32-Ge-81



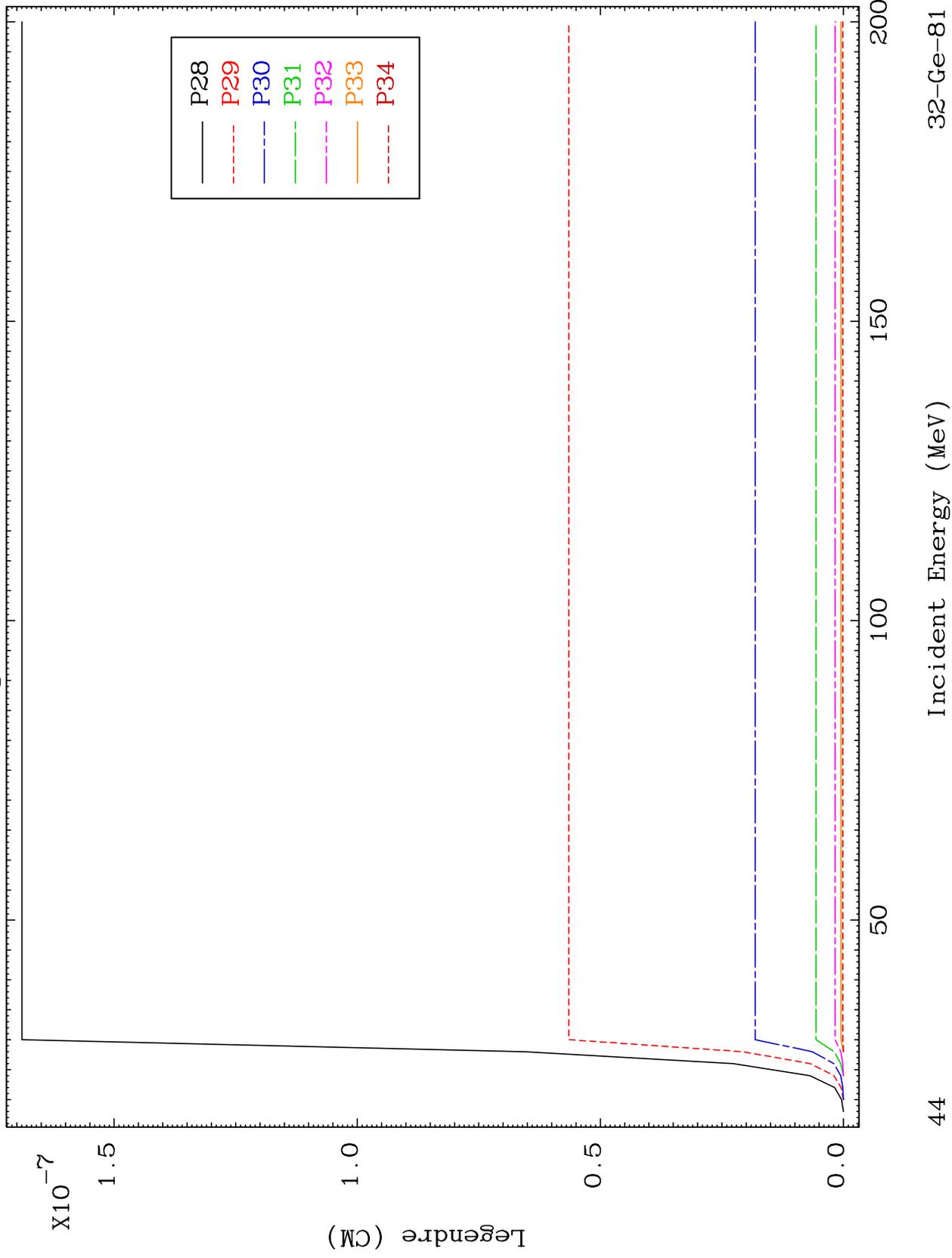
43

32-Ge-81

MAT 3258

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

32-Ge-81



44

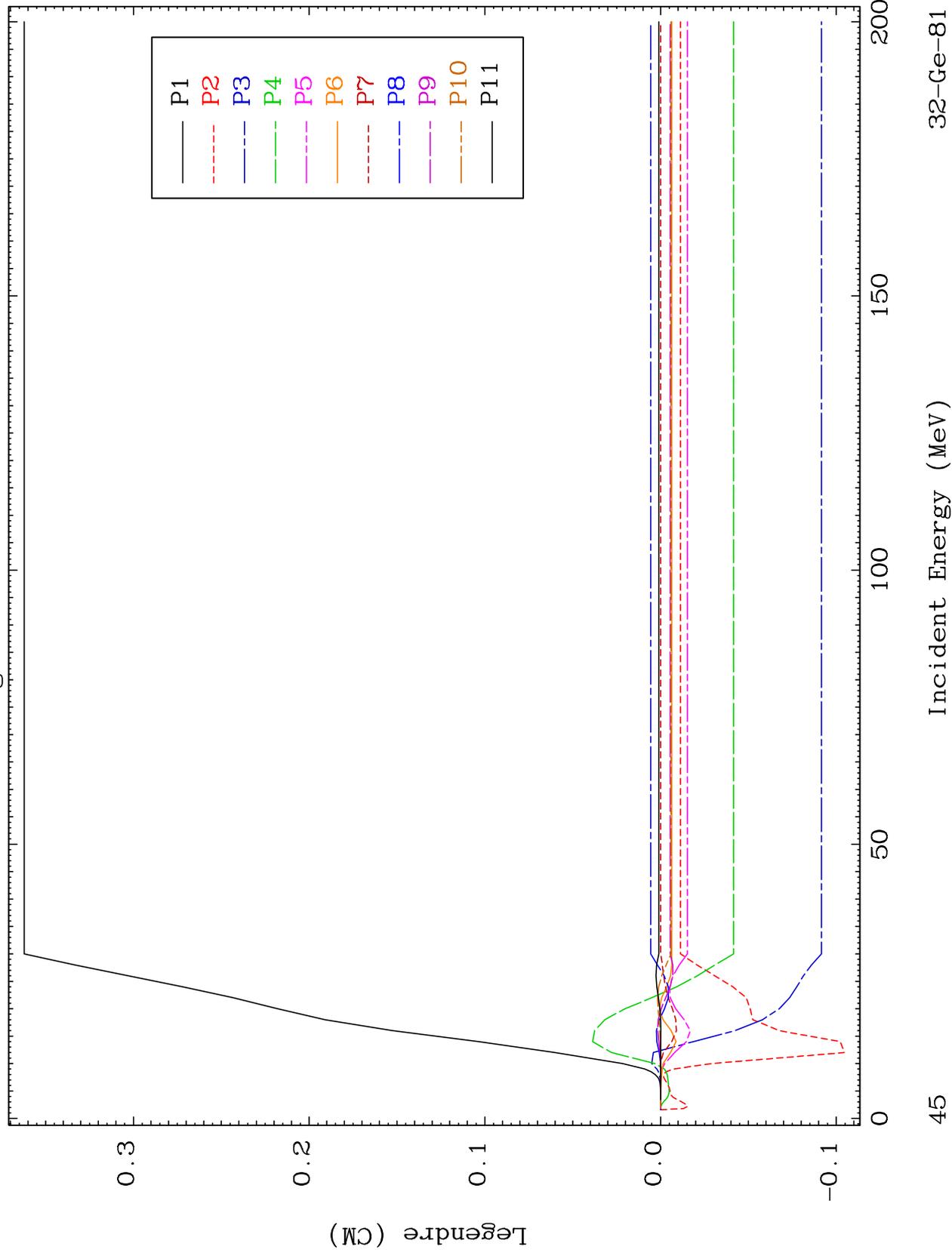
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



32-Ge-81

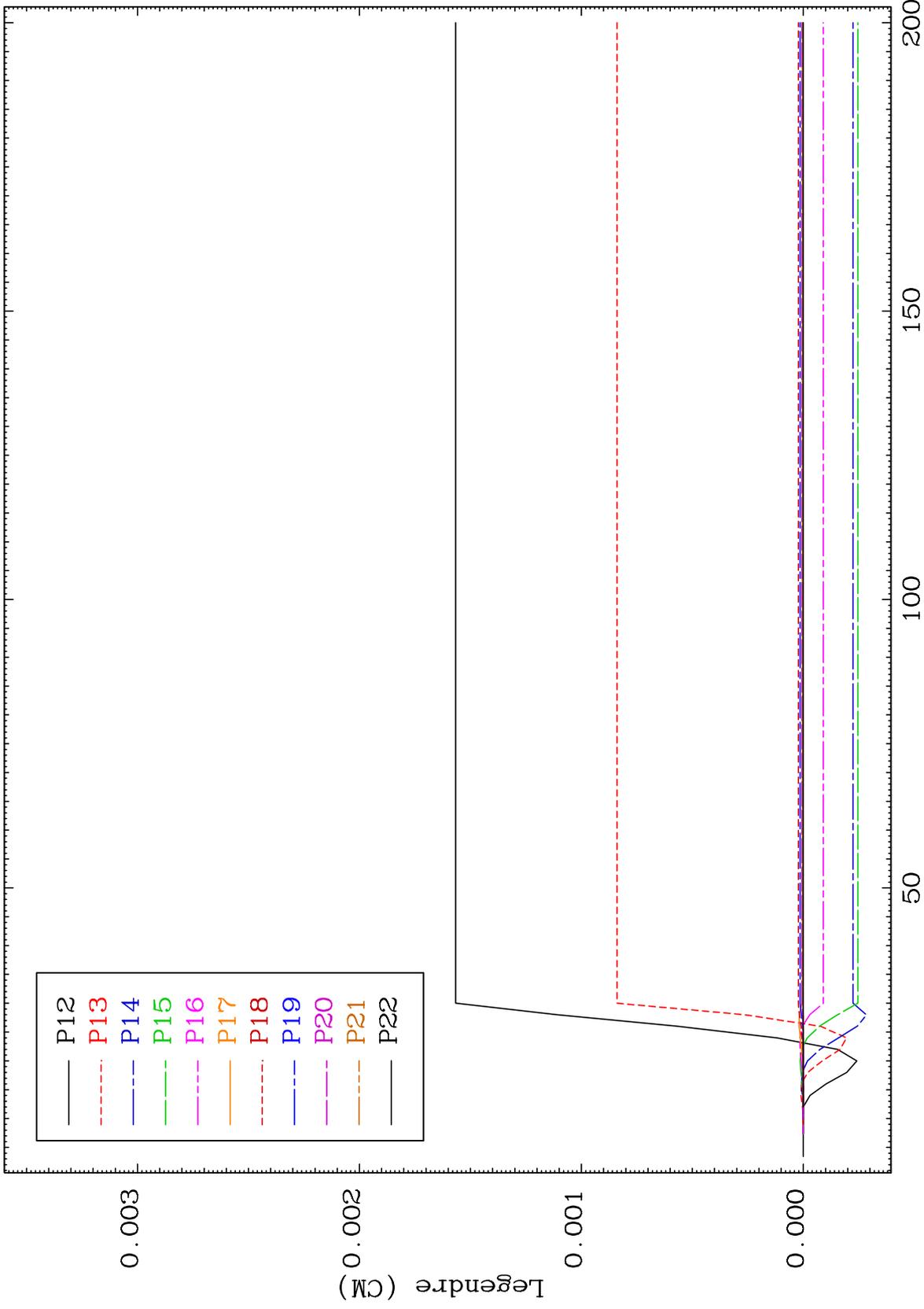
Incident Energy (MeV)

45

MAT 3258

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

32-Ge-81



46

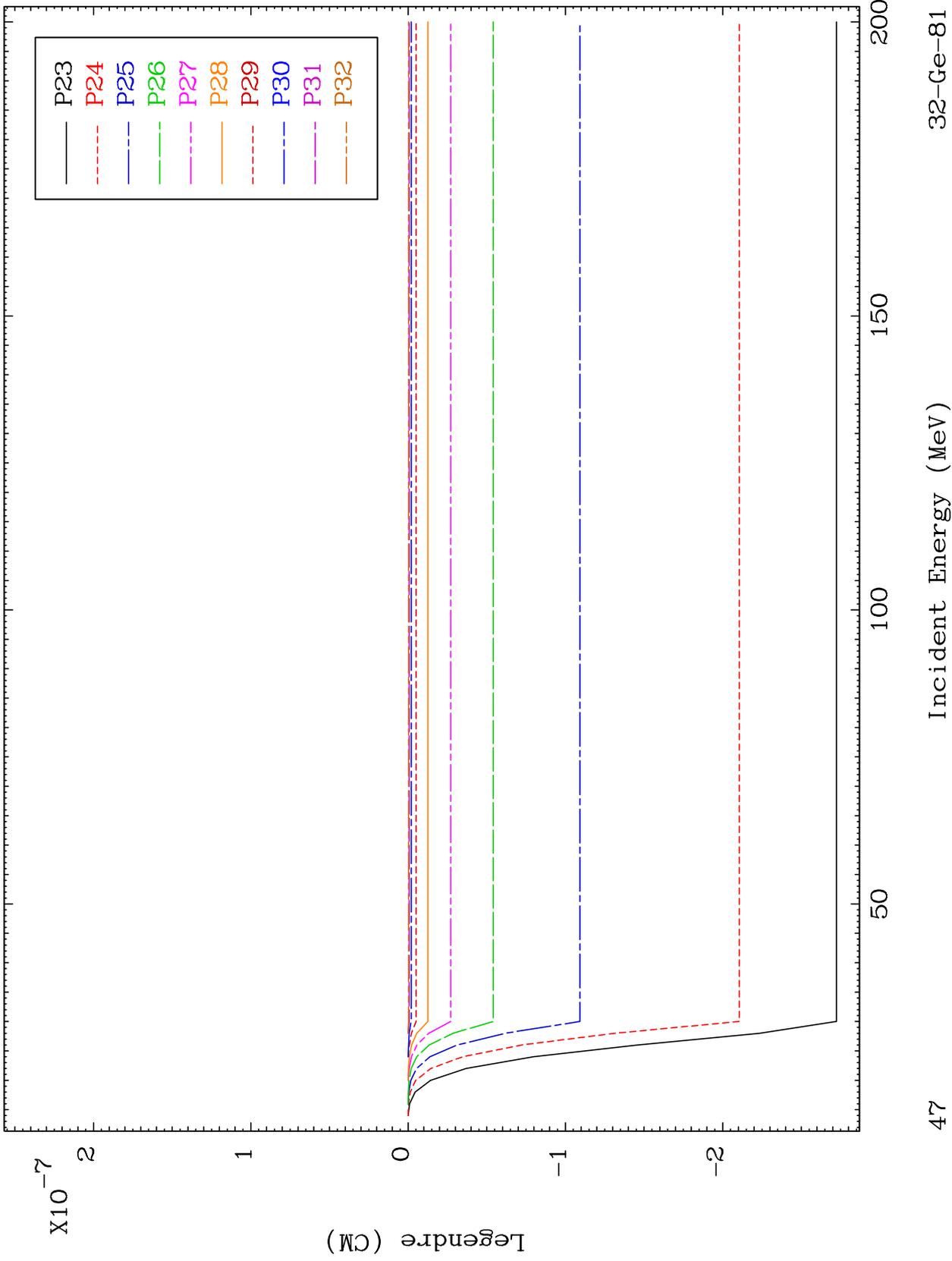
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81

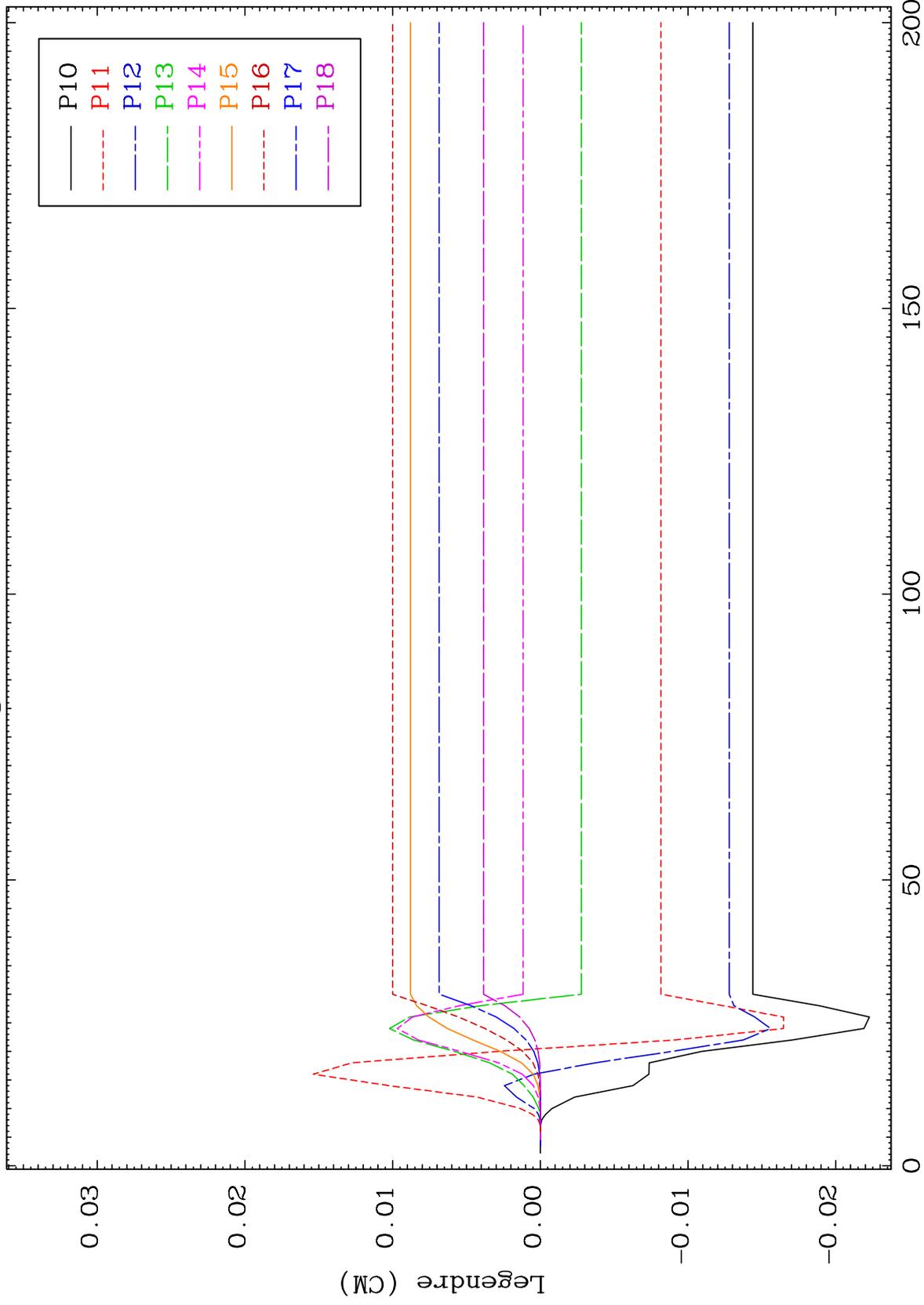




MAT 3258

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

32-Ge-81



49

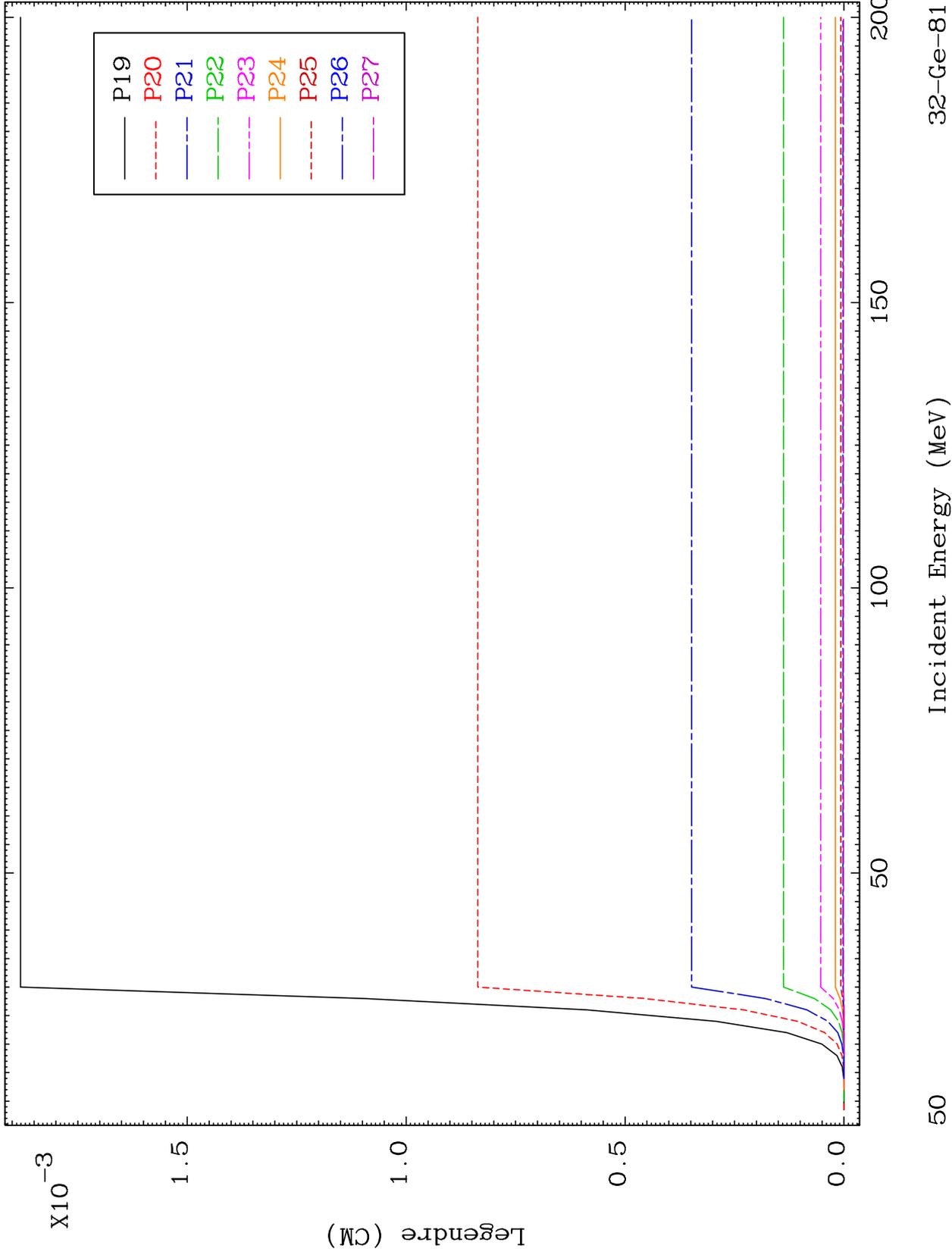
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

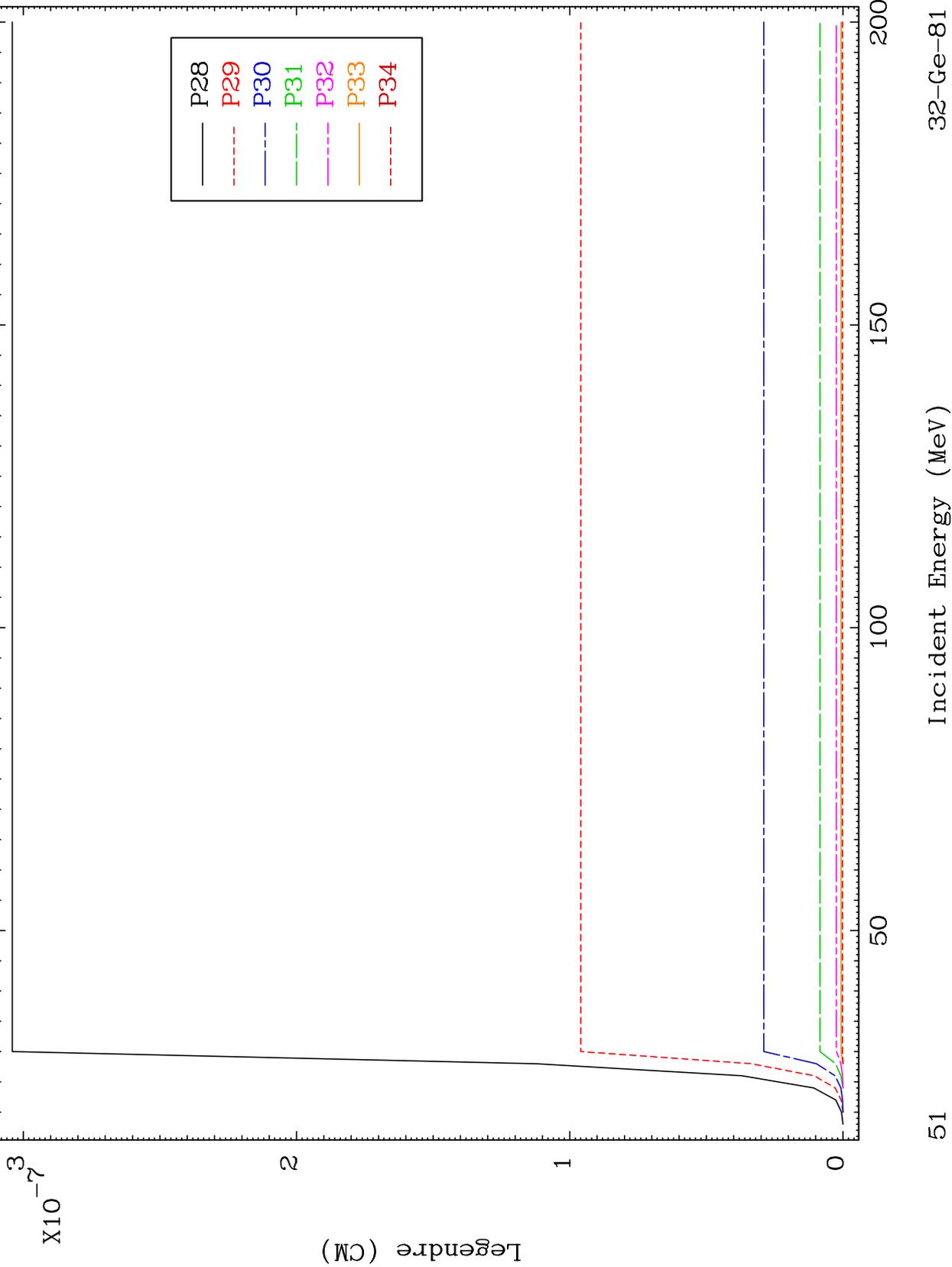
32-Ge-81



MAT 3258

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

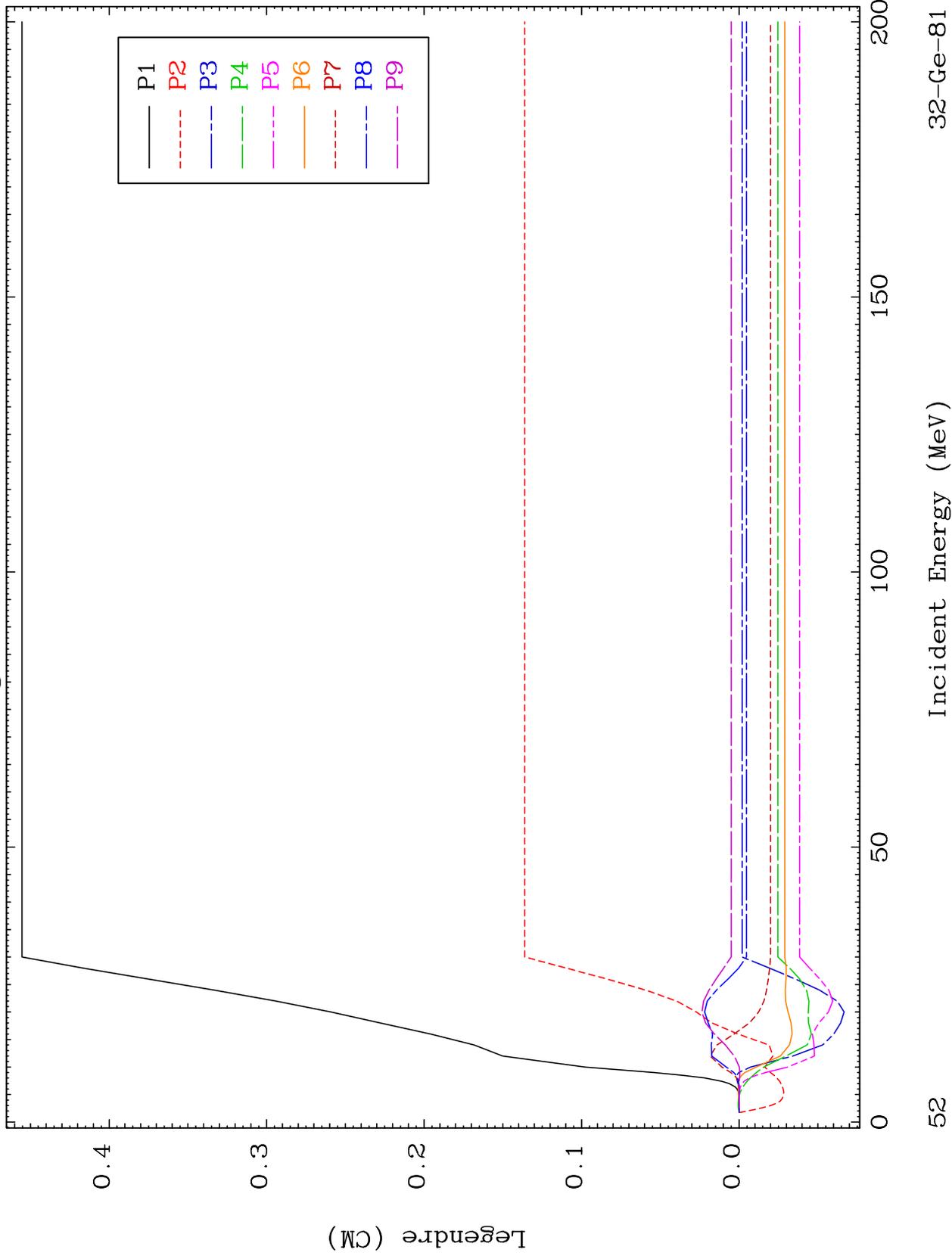
32-Ge-81

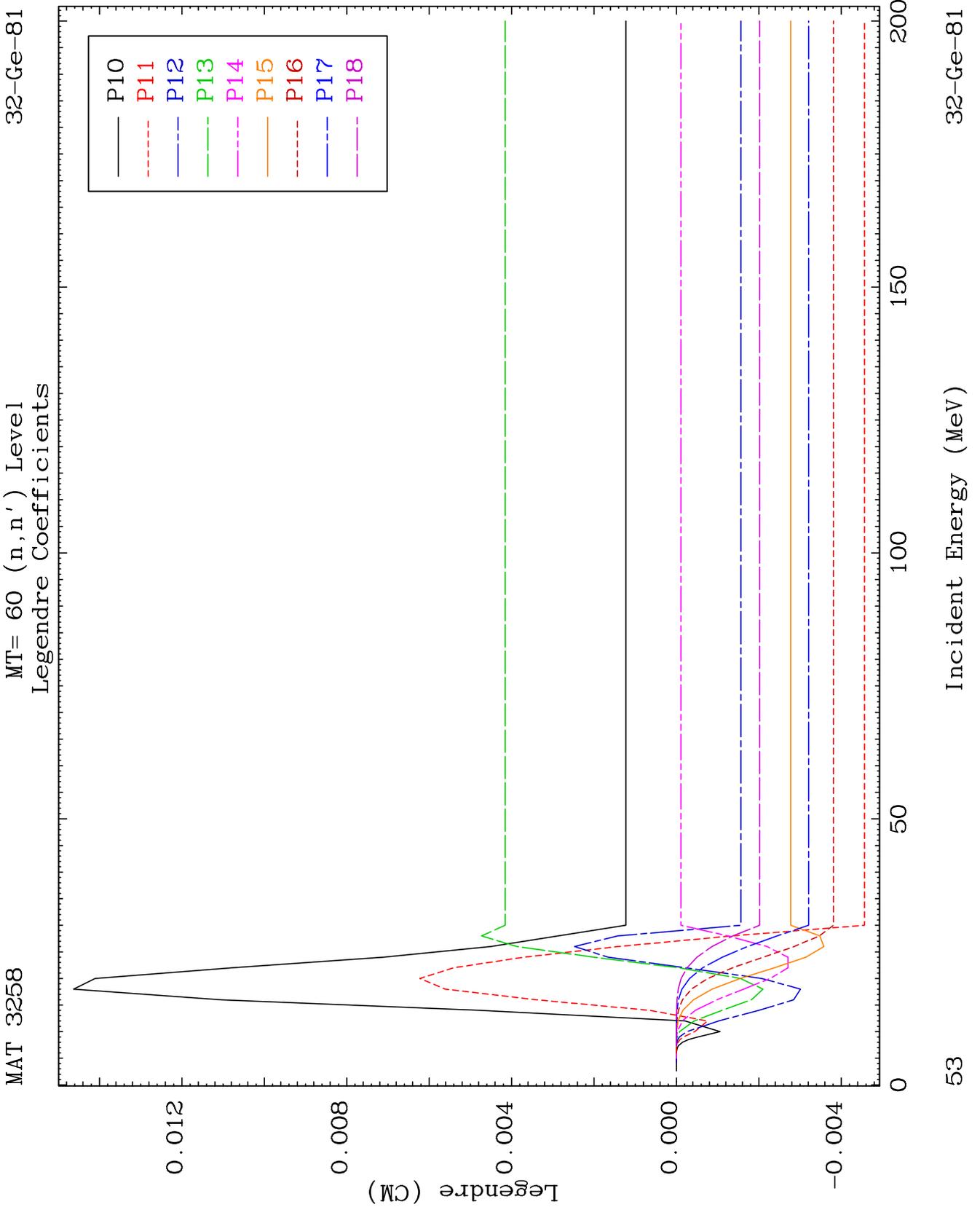


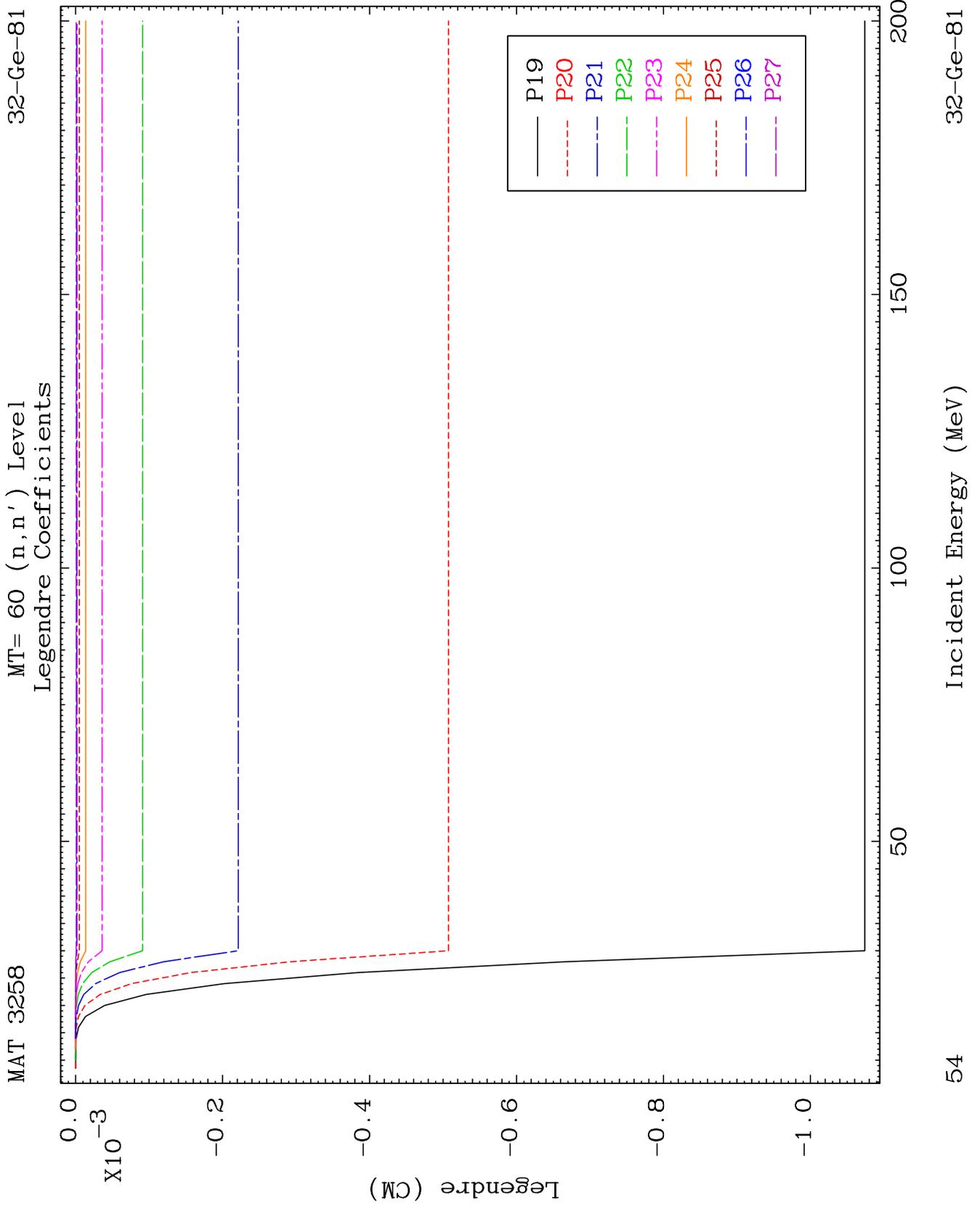
MAT 3258

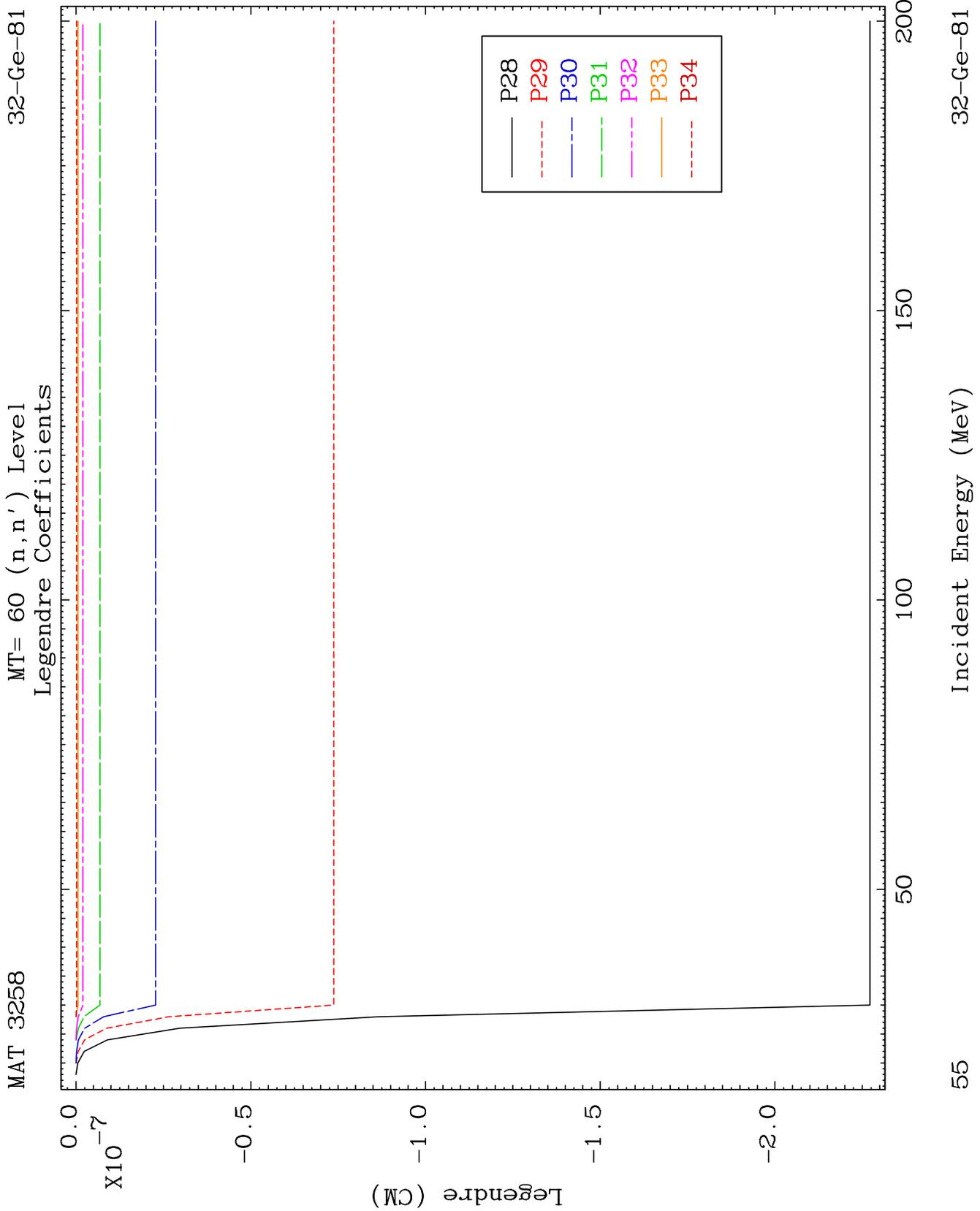
MT= 60 (n,n') Level  
Legendre Coefficients

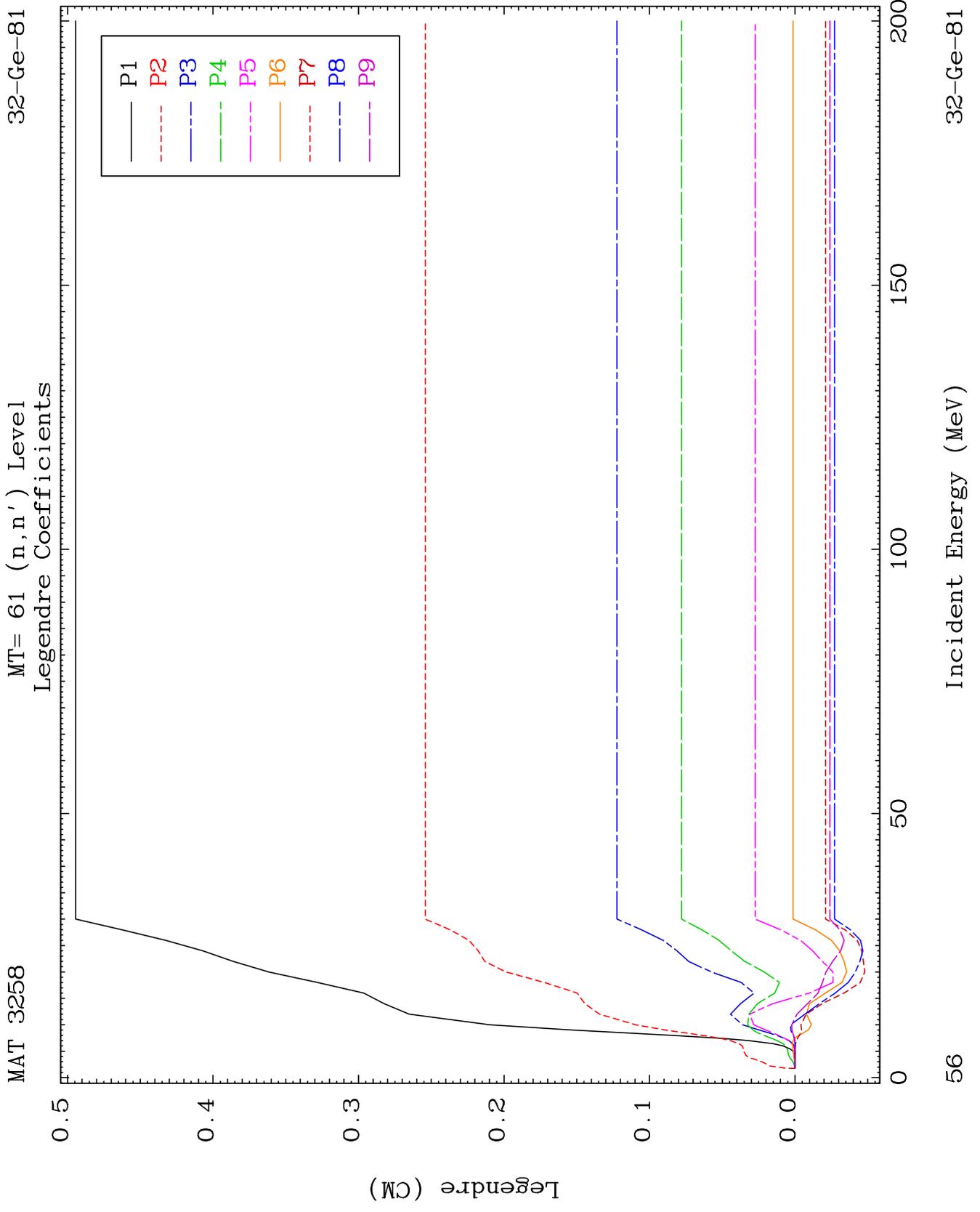
32-Ge-81







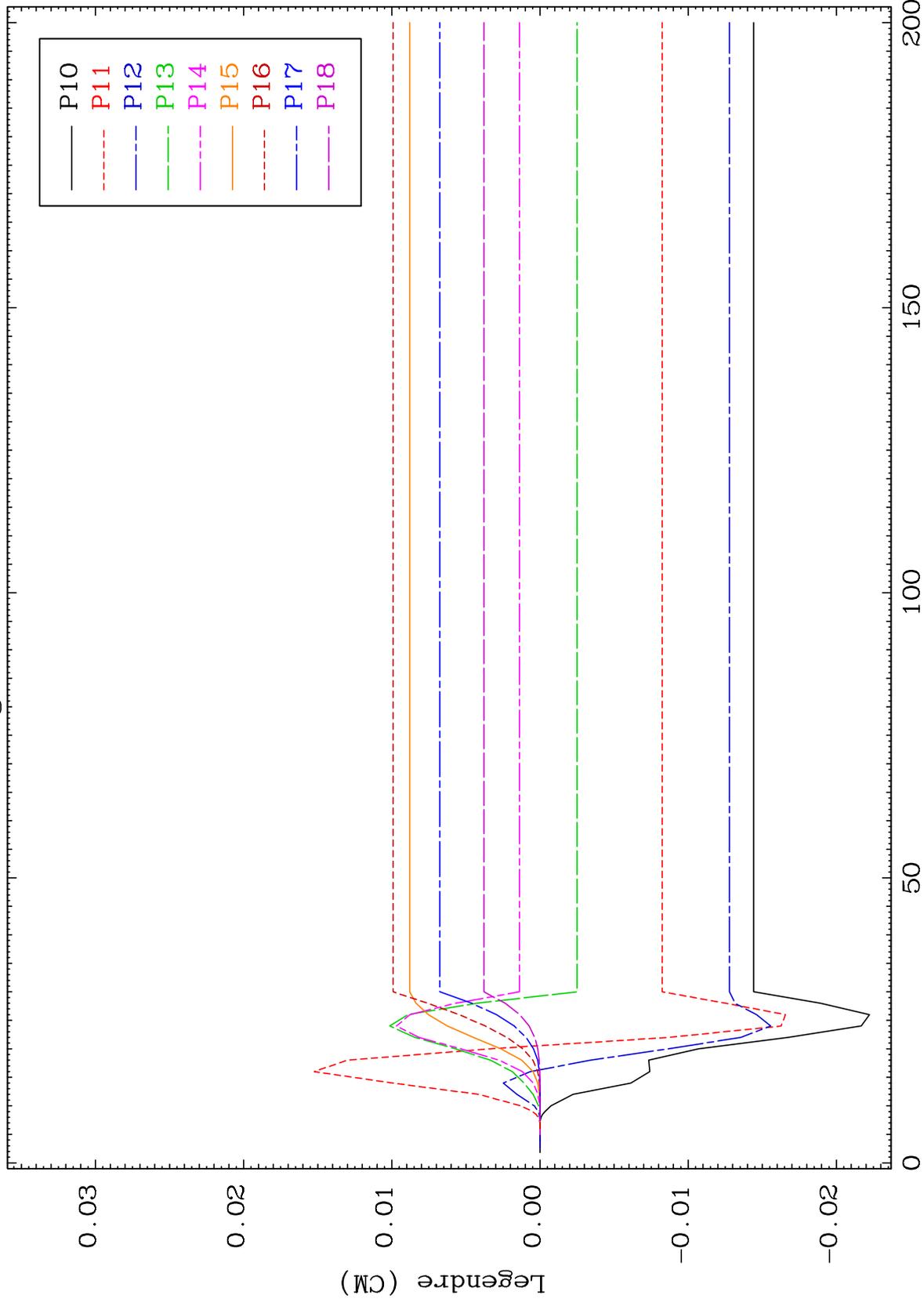




MAT 3258

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

32-Ge-81



57

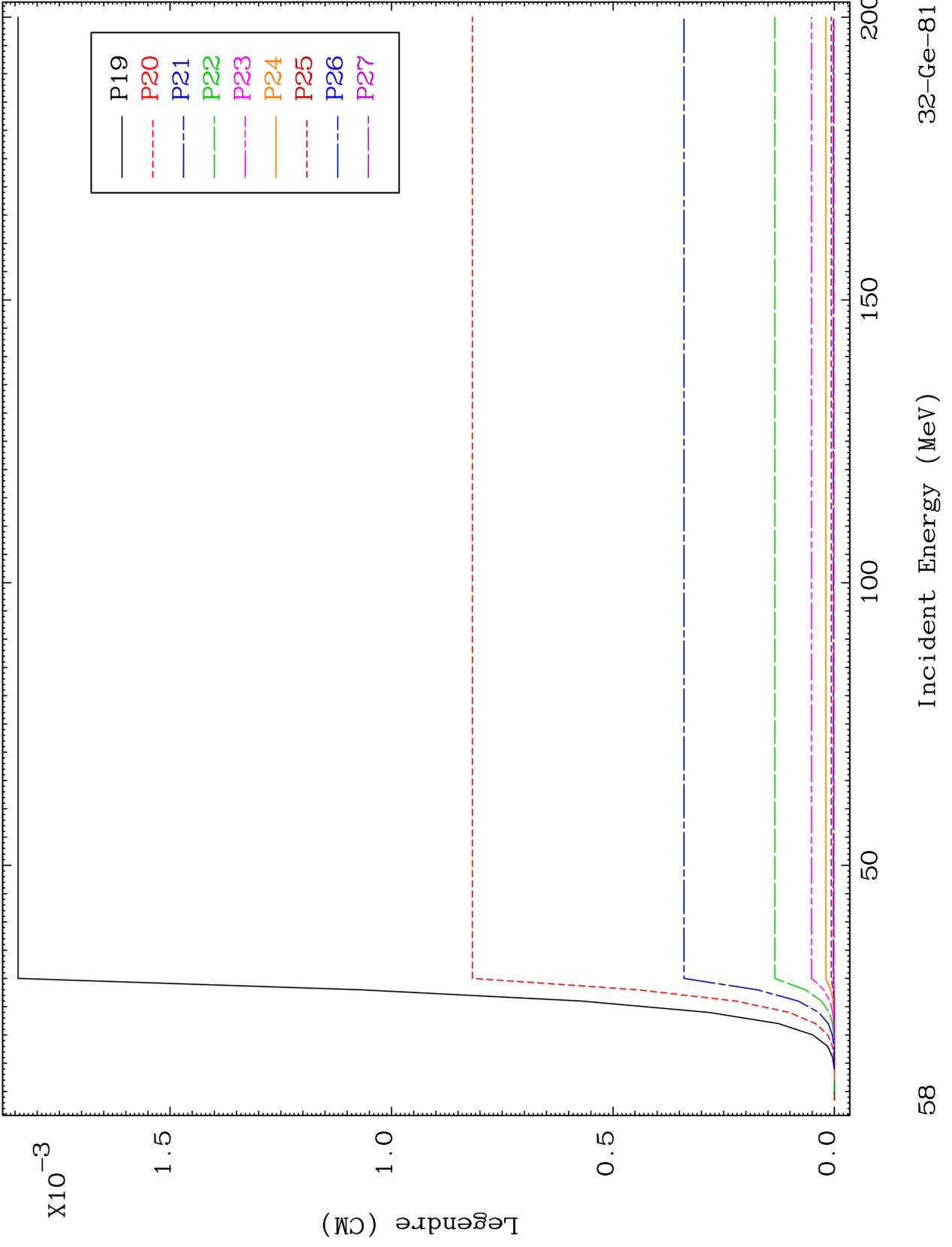
Incident Energy (MeV)

32-Ge-81

MAT 3258

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

32-Ge-81



58

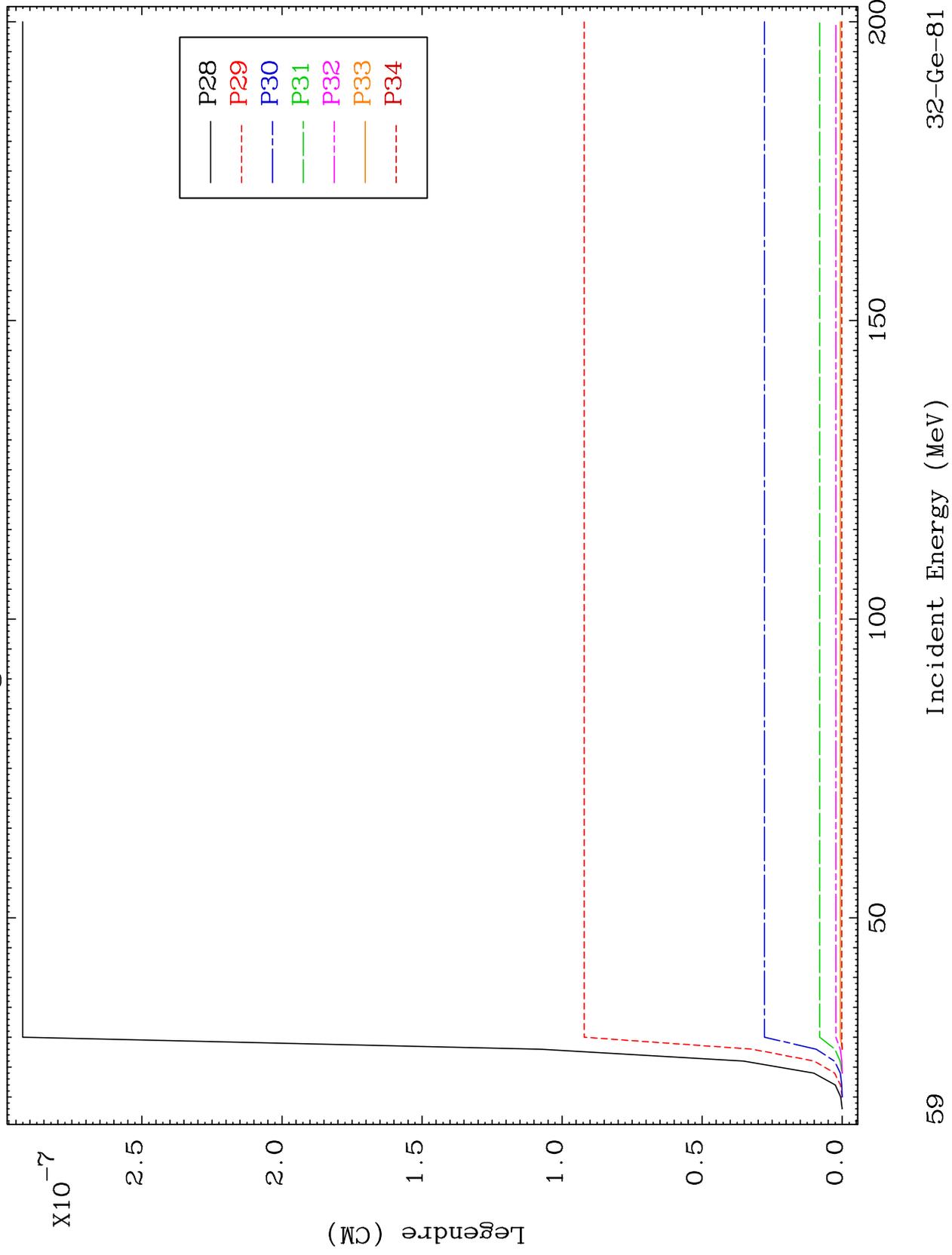
Incident Energy (MeV)

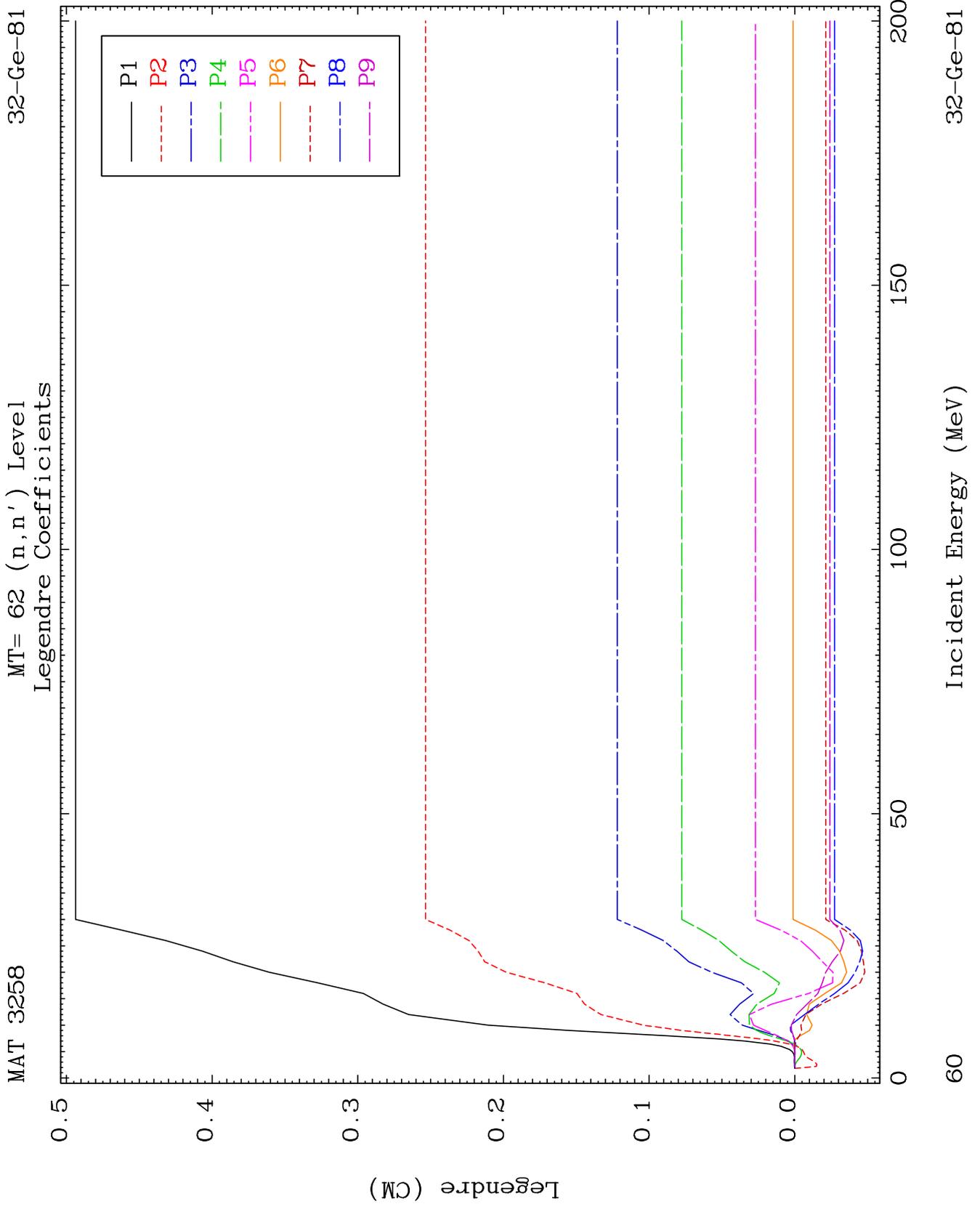
32-Ge-81

MAT 3258

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

32-Ge-81

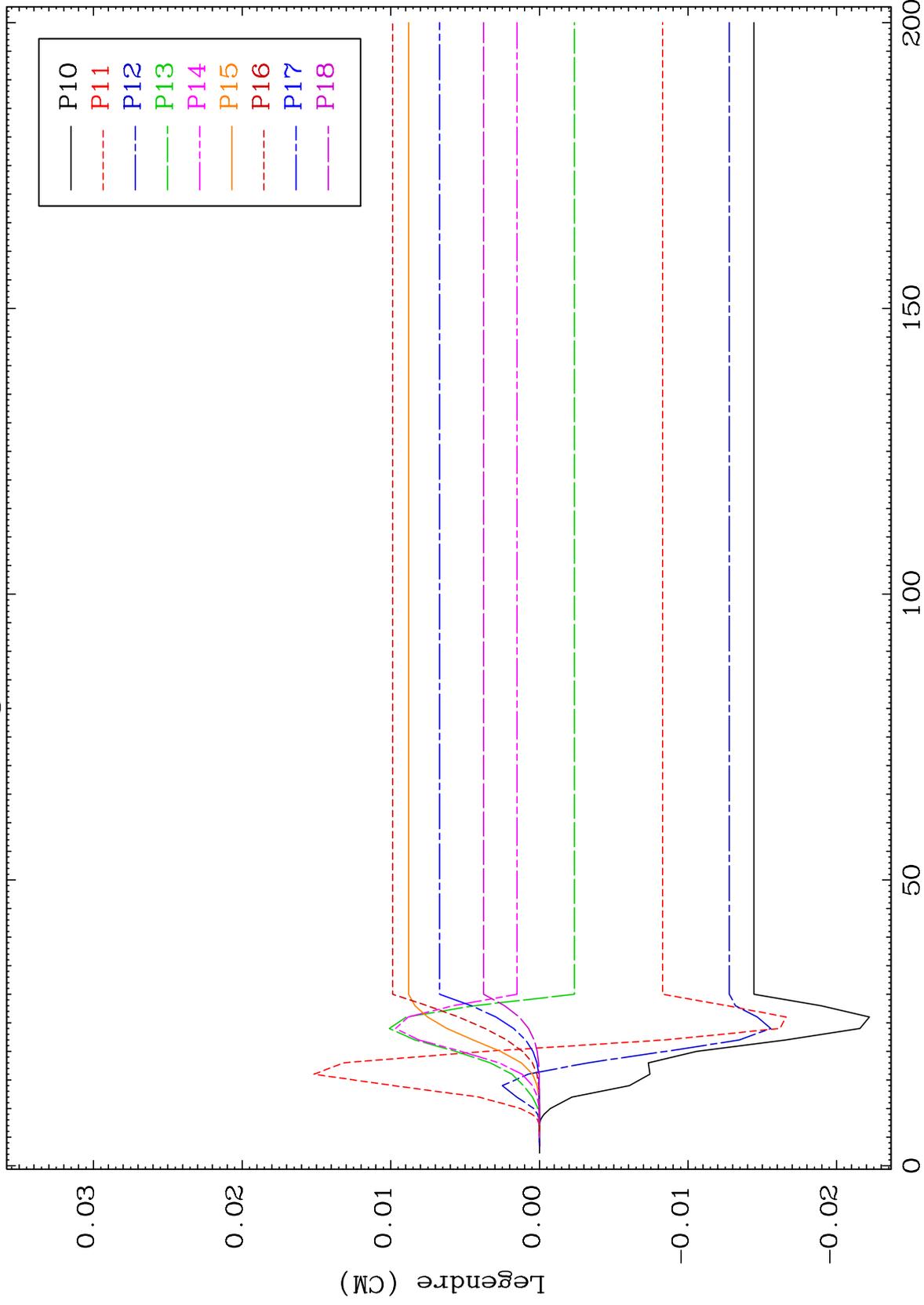




MAT 3258

MT= 62 (n,n') Level  
Legendre Coefficients

32-Ge-81



61

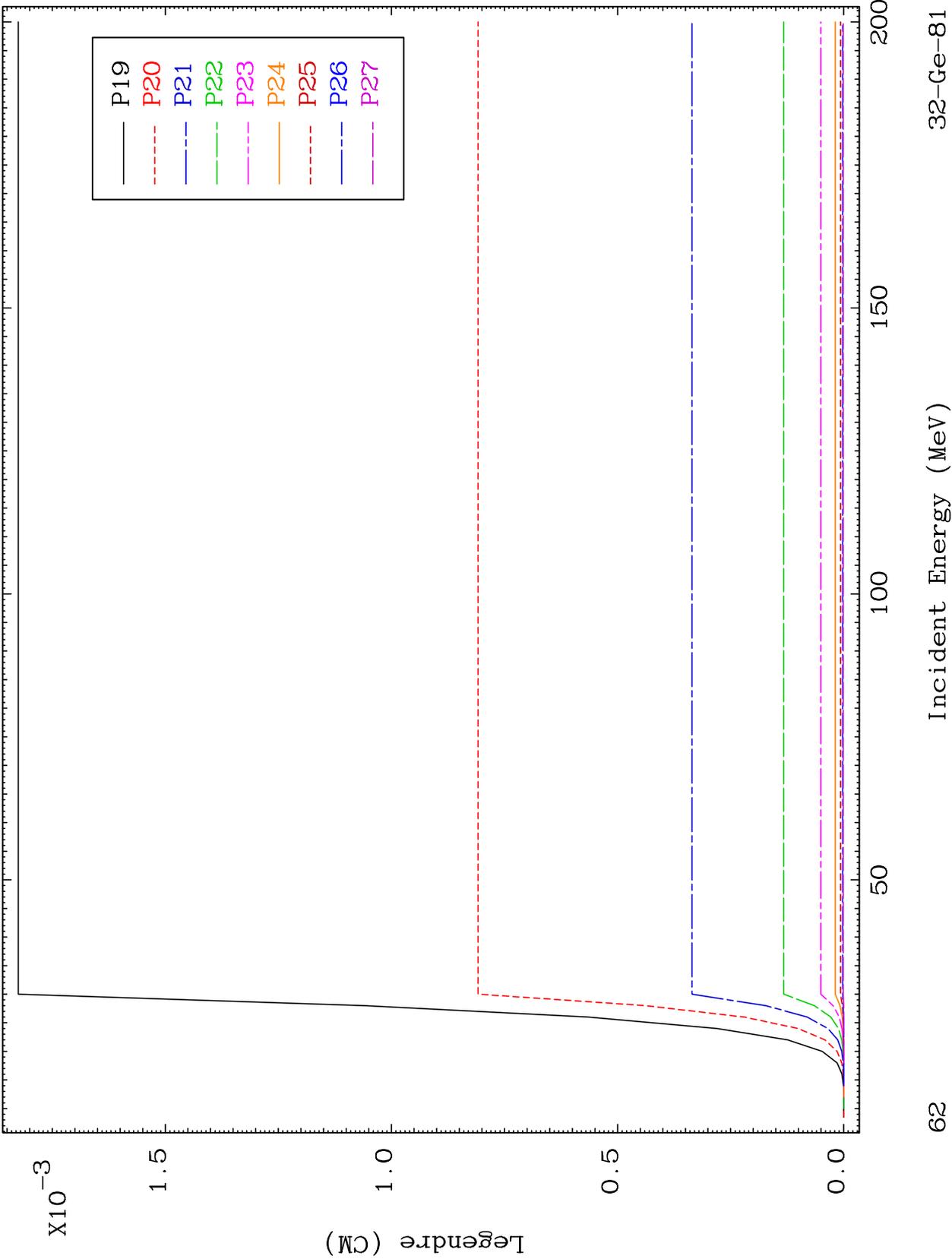
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 62 (n,n') Level  
Legendre Coefficients

32-Ge-81



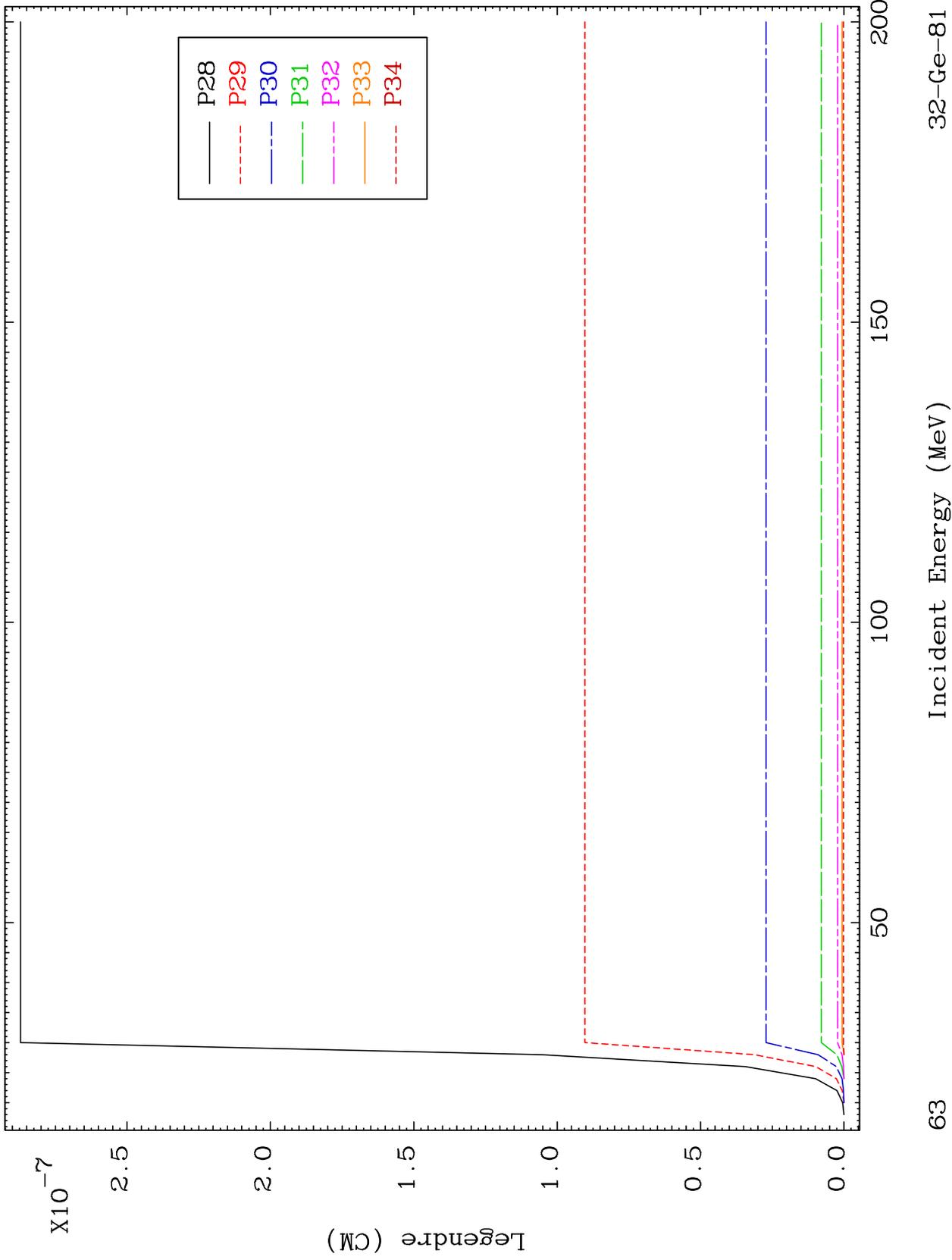
62

32-Ge-81

MAT 3258

MT= 62 (n,n') Level  
Legendre Coefficients

32-Ge-81



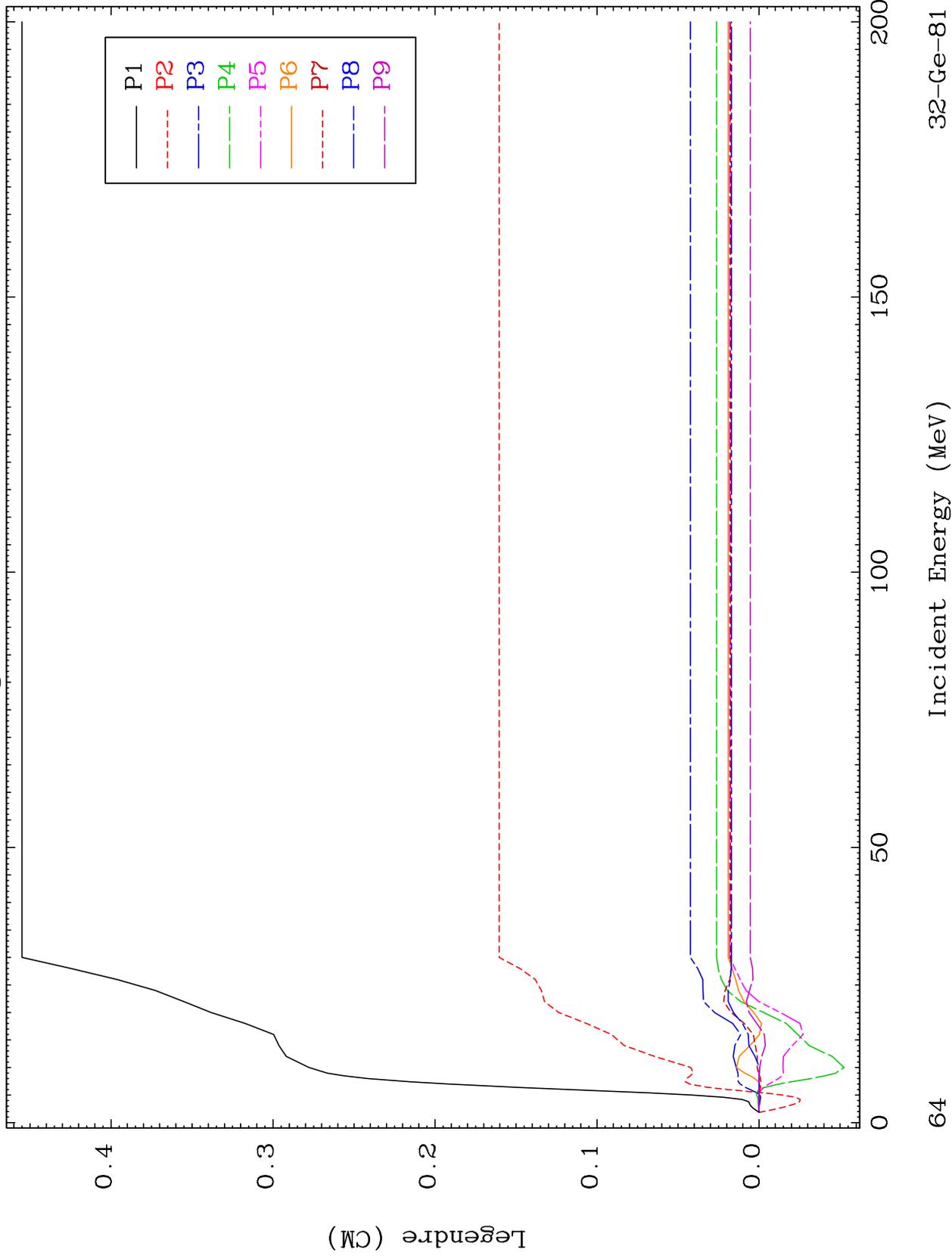
63

32-Ge-81

MAT 3258

MT= 63 (n,n') Level  
Legendre Coefficients

32-Ge-81



32-Ge-81

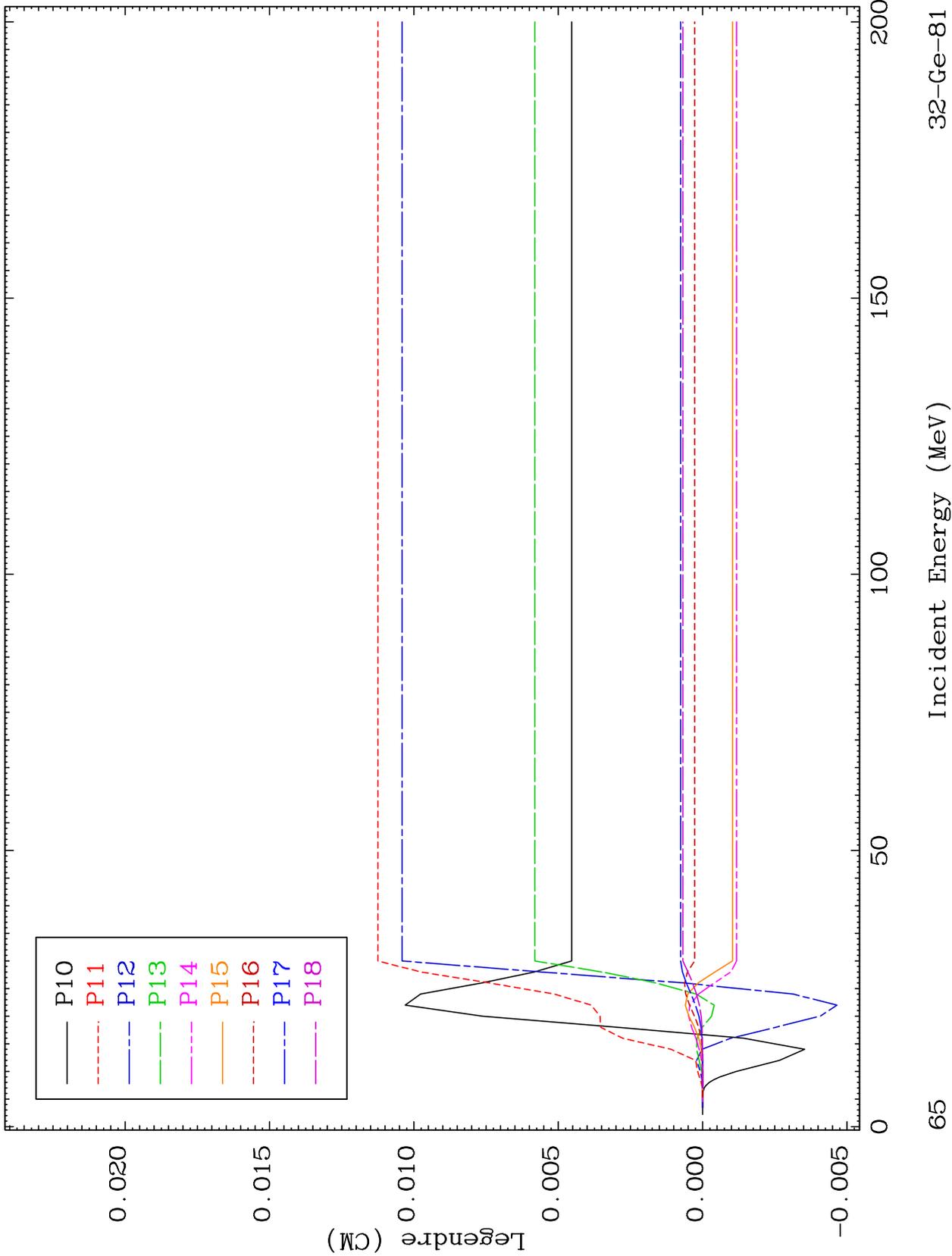
Incident Energy (MeV)

64

MAT 3258

MT= 63 (n,n') Level  
Legendre Coefficients

32-Ge-81



65

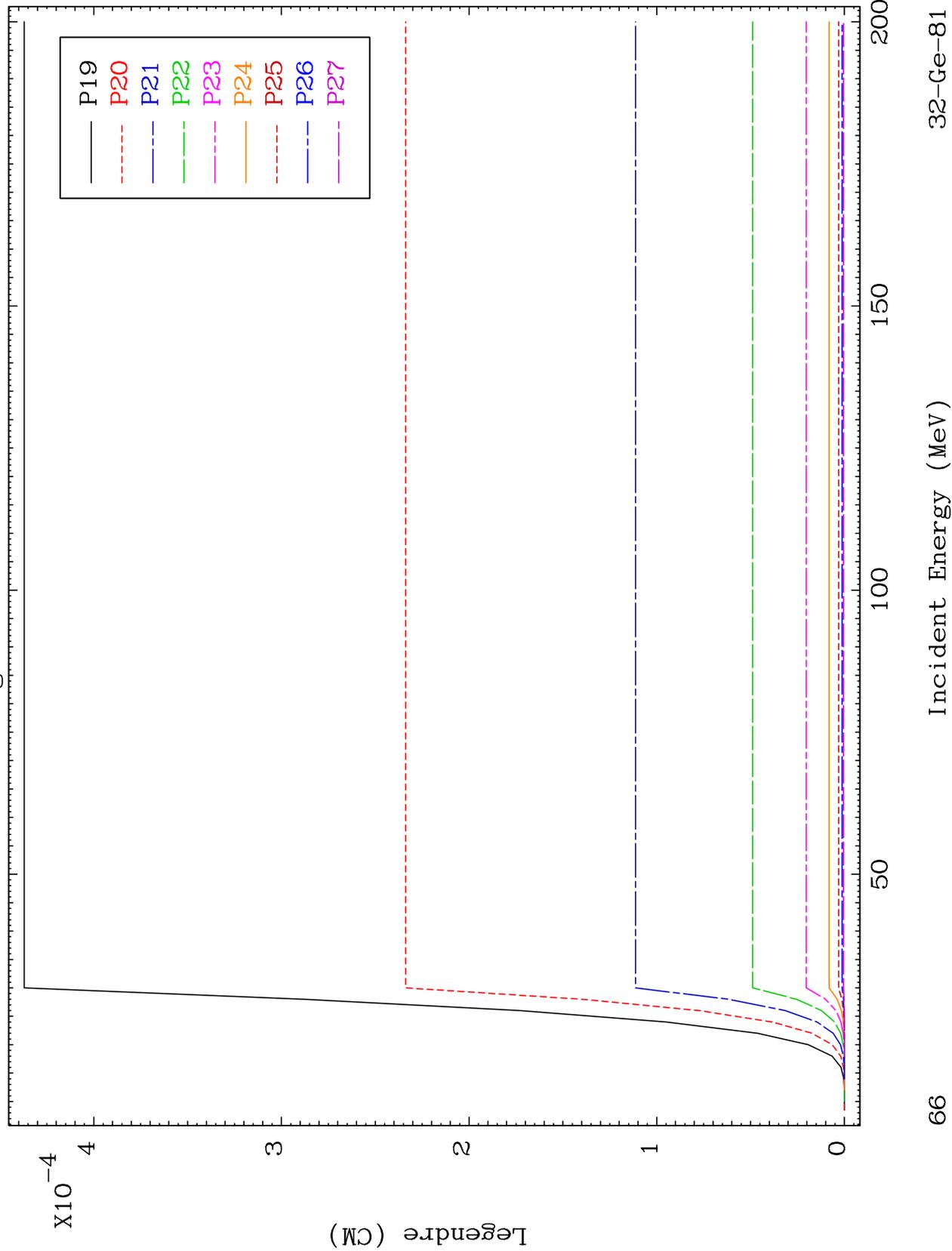
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 63 (n,n') Level  
Legendre Coefficients

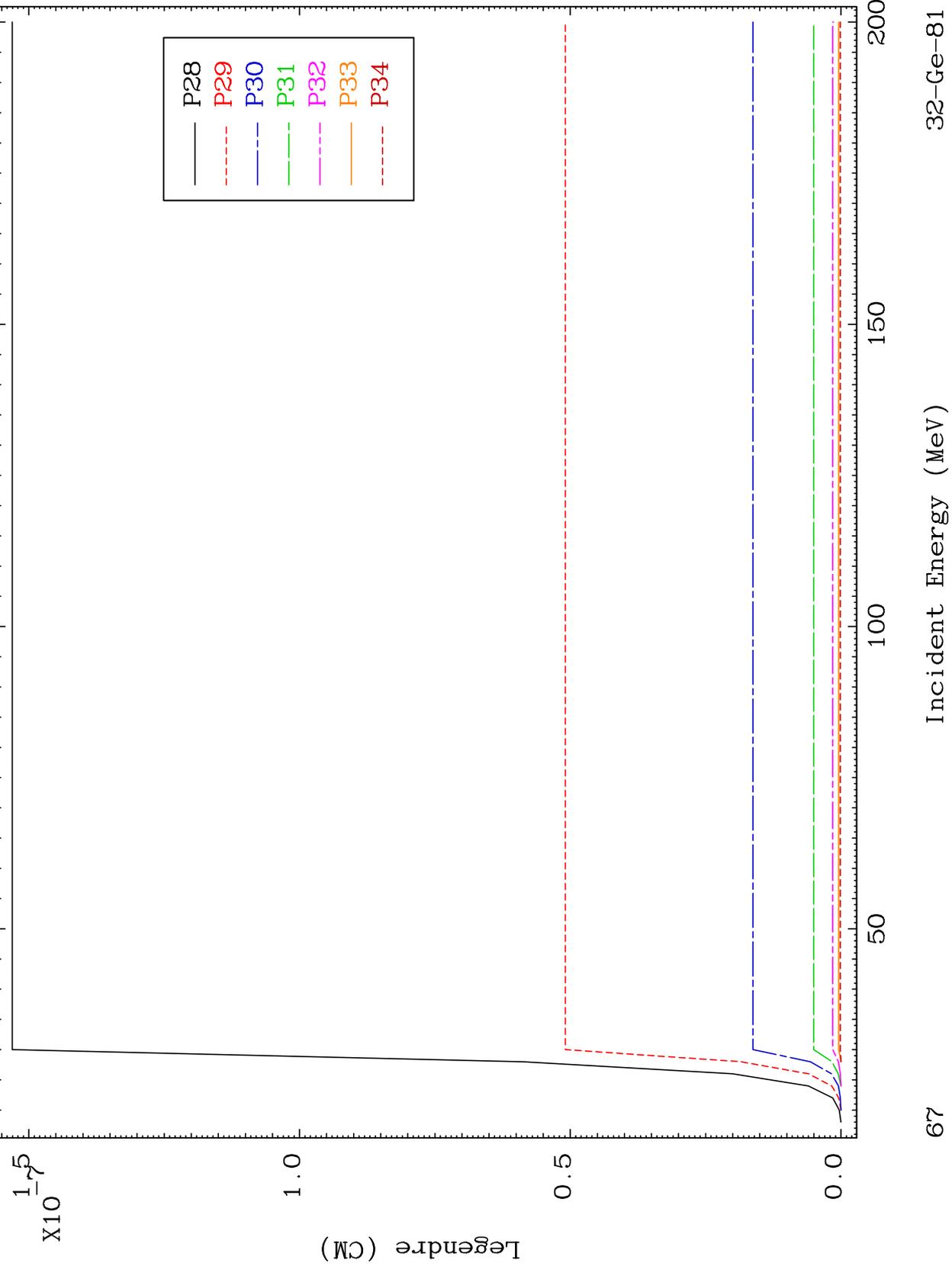
32-Ge-81



MAT 3258

MT= 63 (n,n') Level  
Legendre Coefficients

32-Ge-81



67

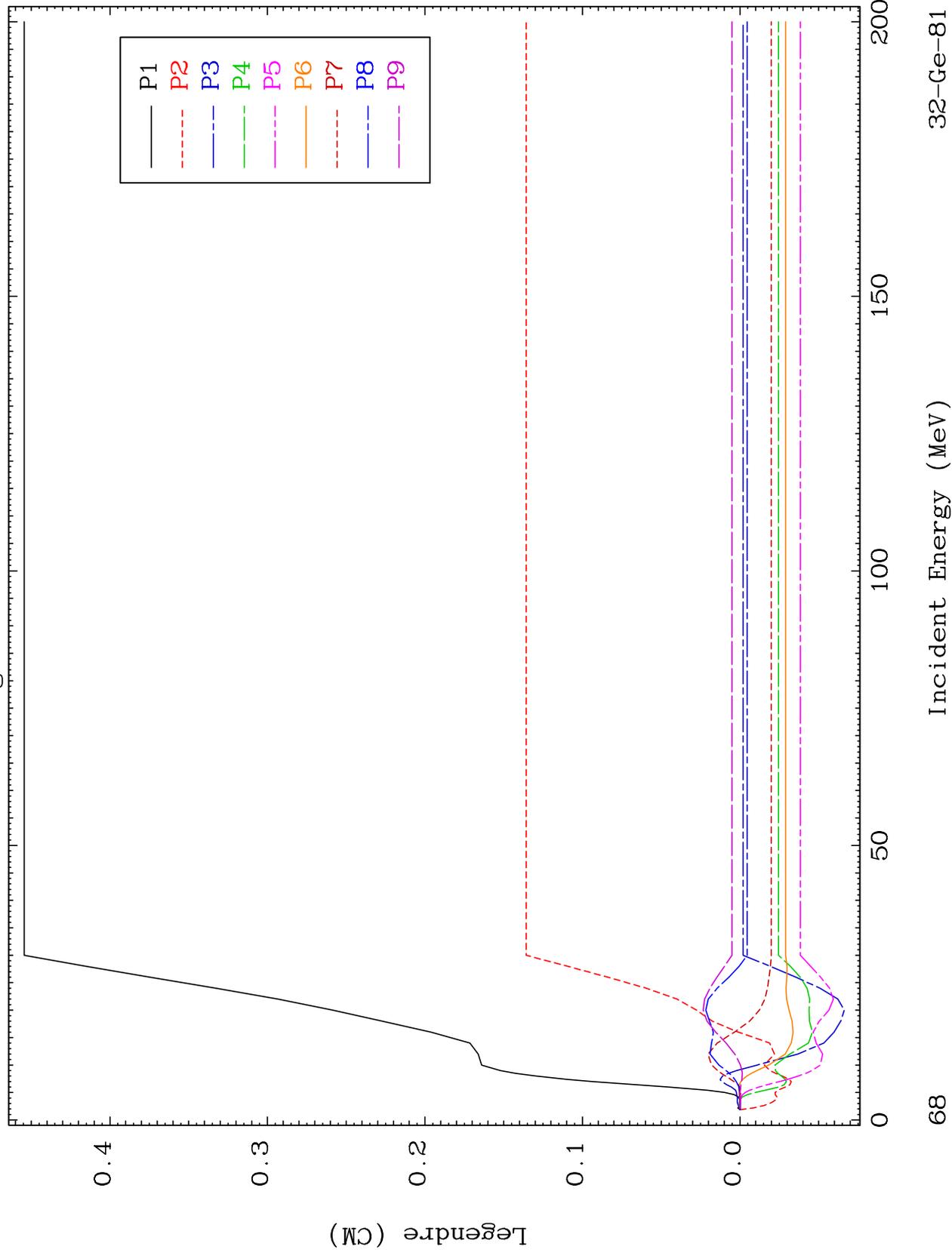
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 64 (n,n') Level  
Legendre Coefficients

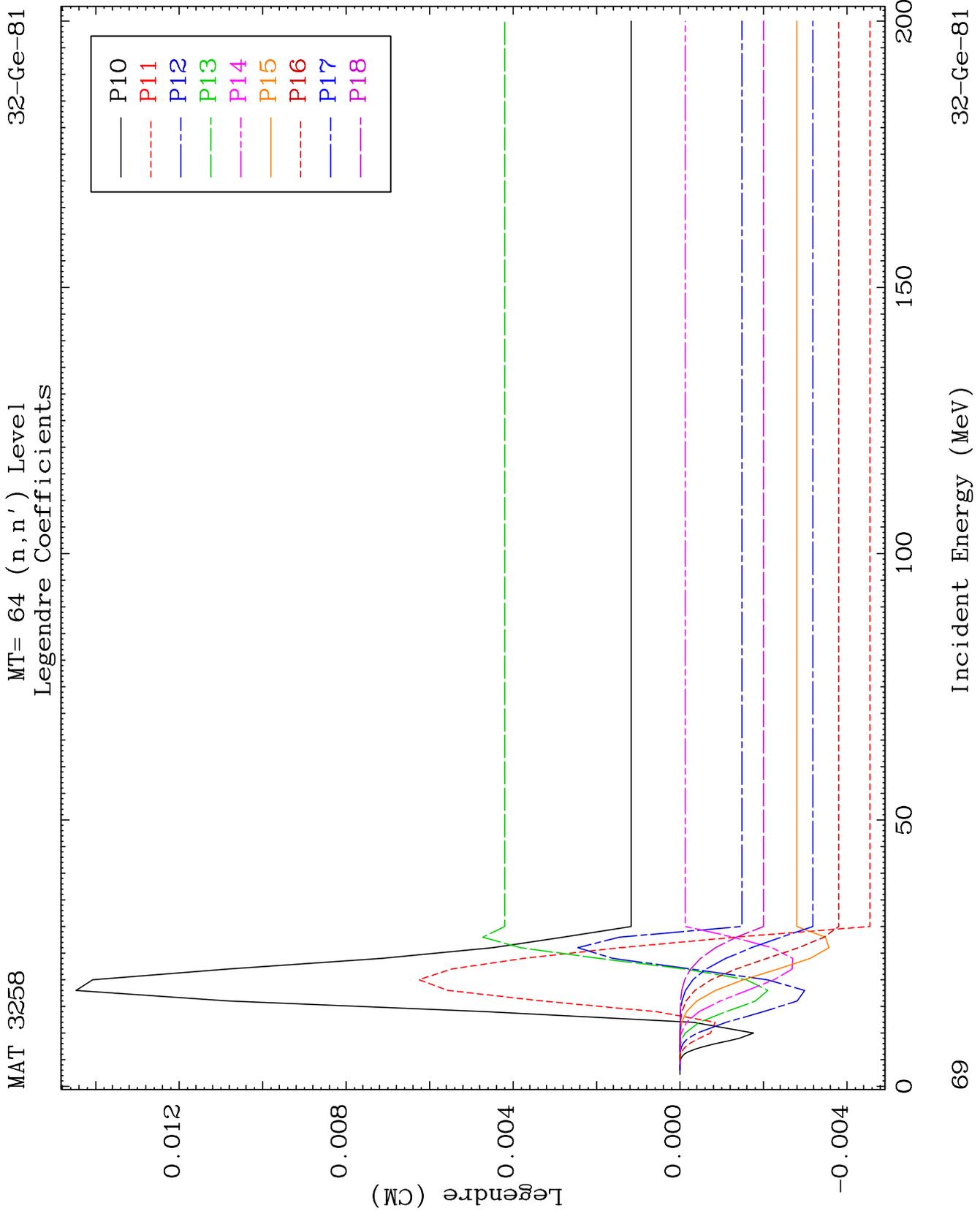
32-Ge-81

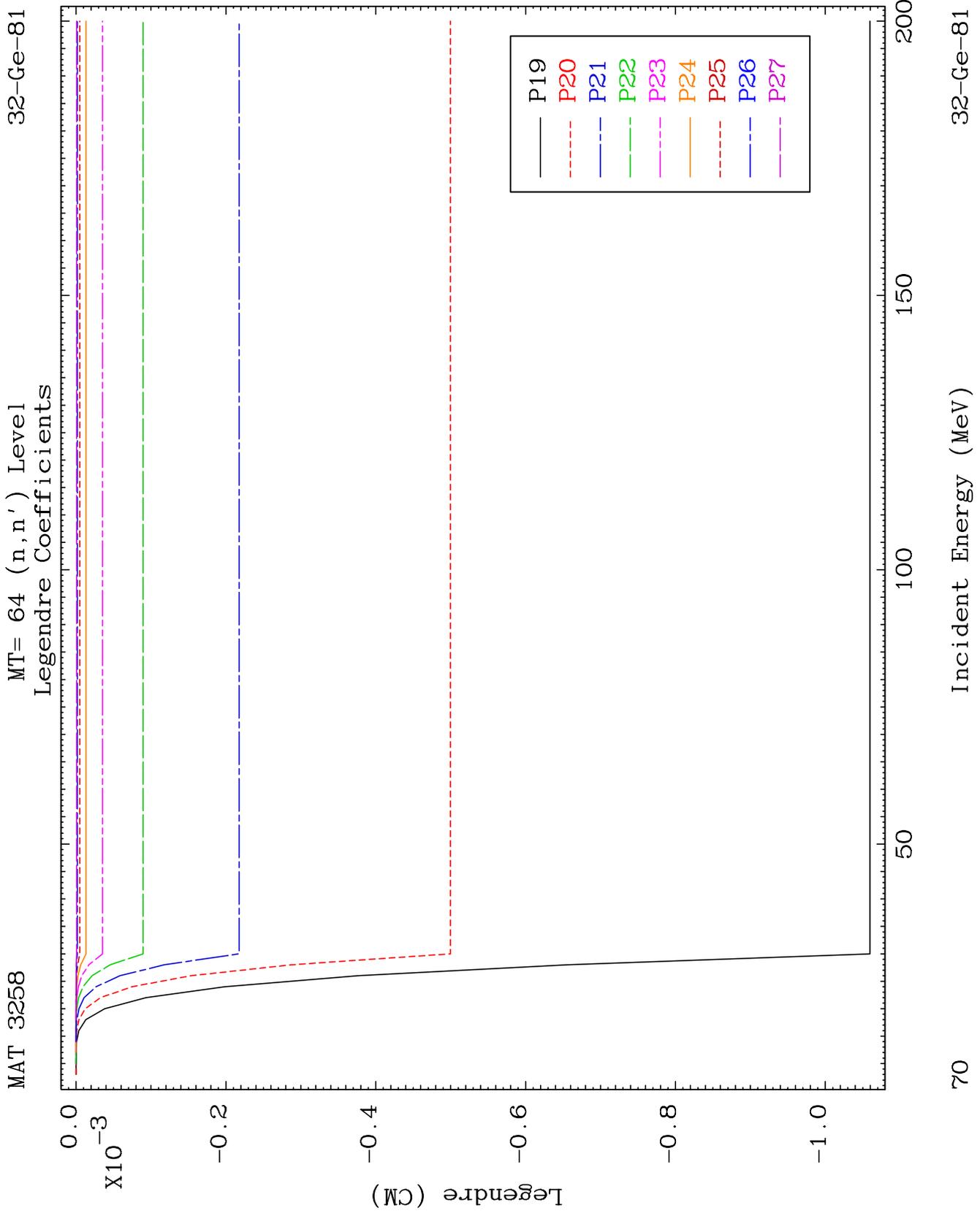


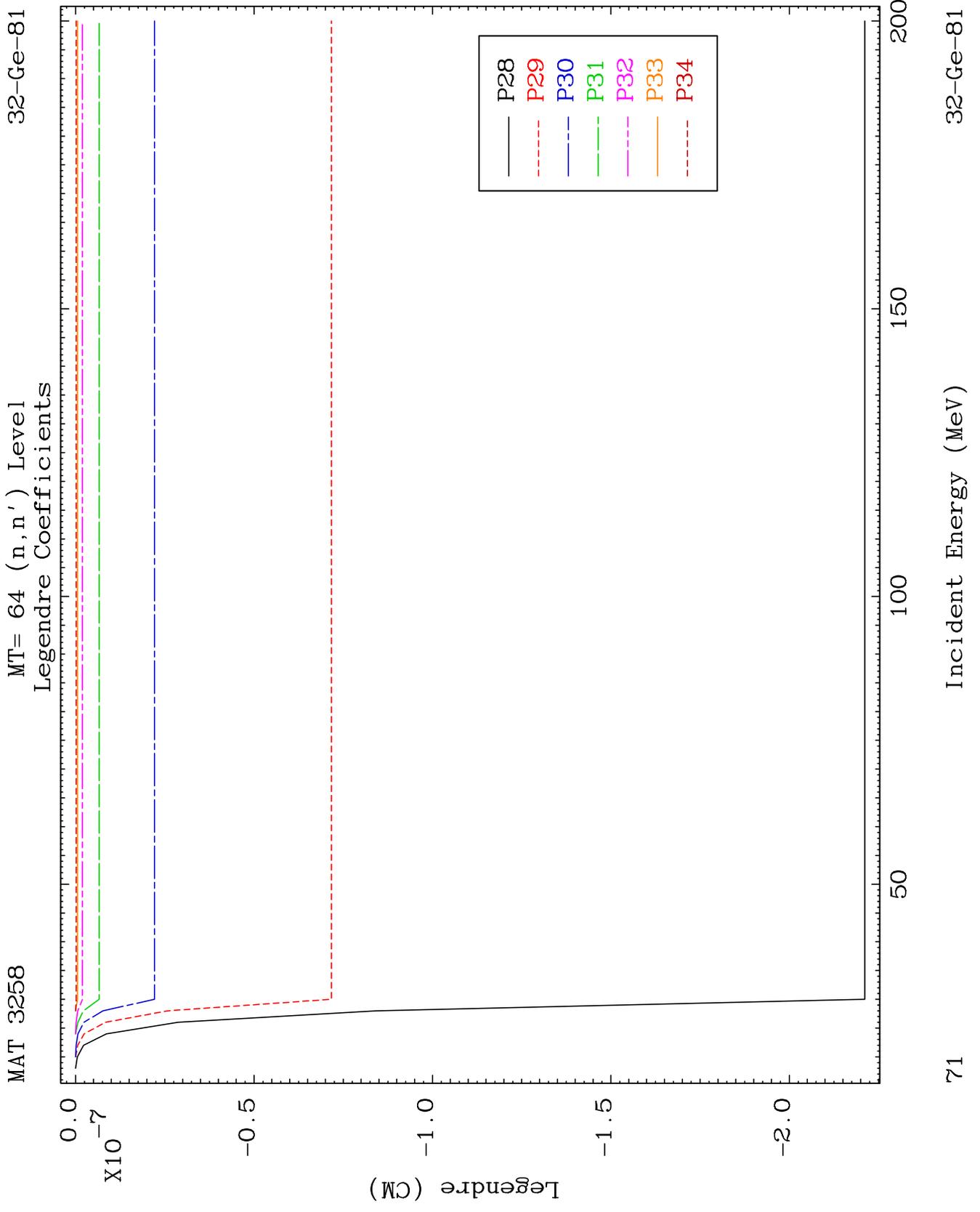
32-Ge-81

Incident Energy (MeV)

68



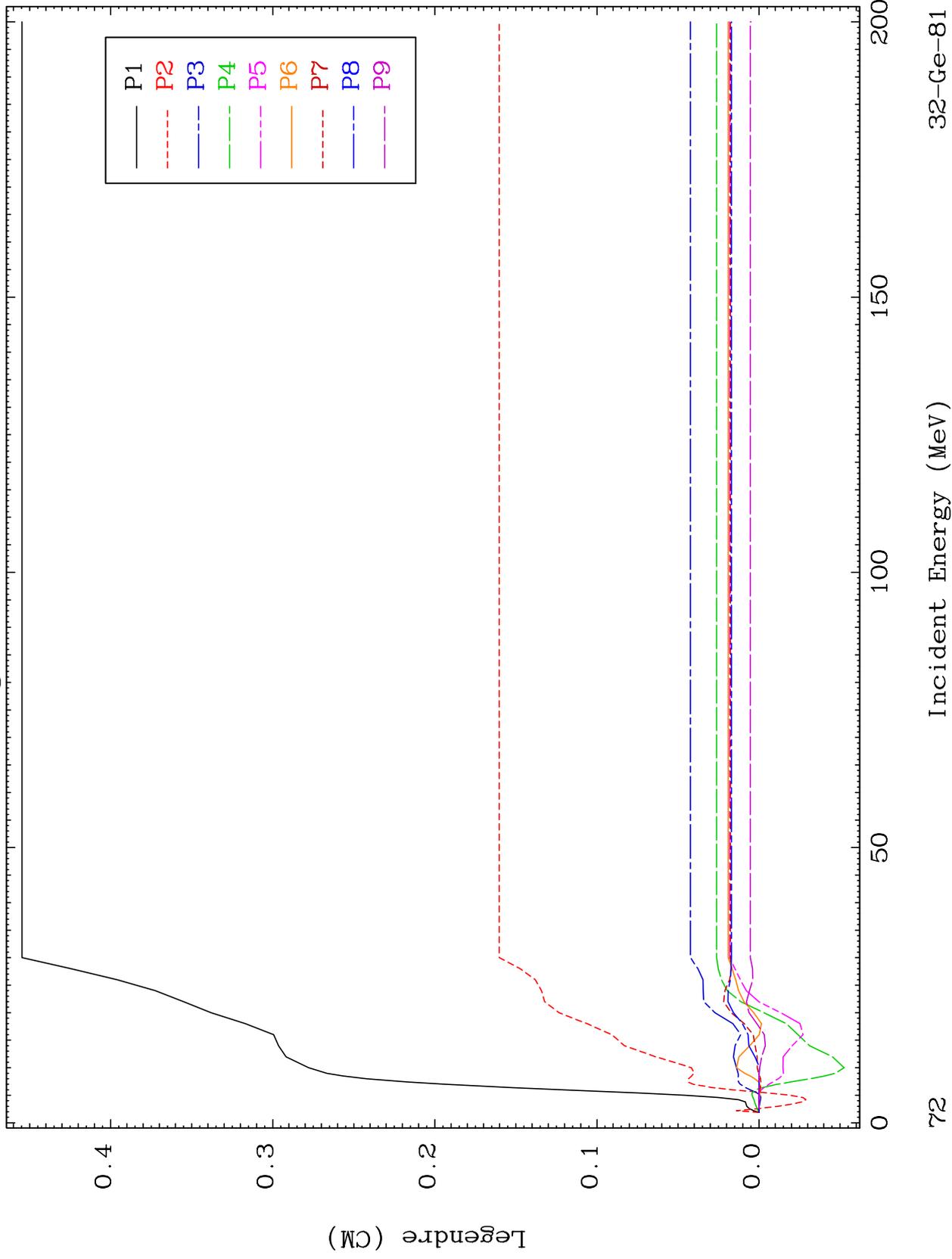




MAT 3258

MT= 65 (n,n') Level  
Legendre Coefficients

32-Ge-81



72

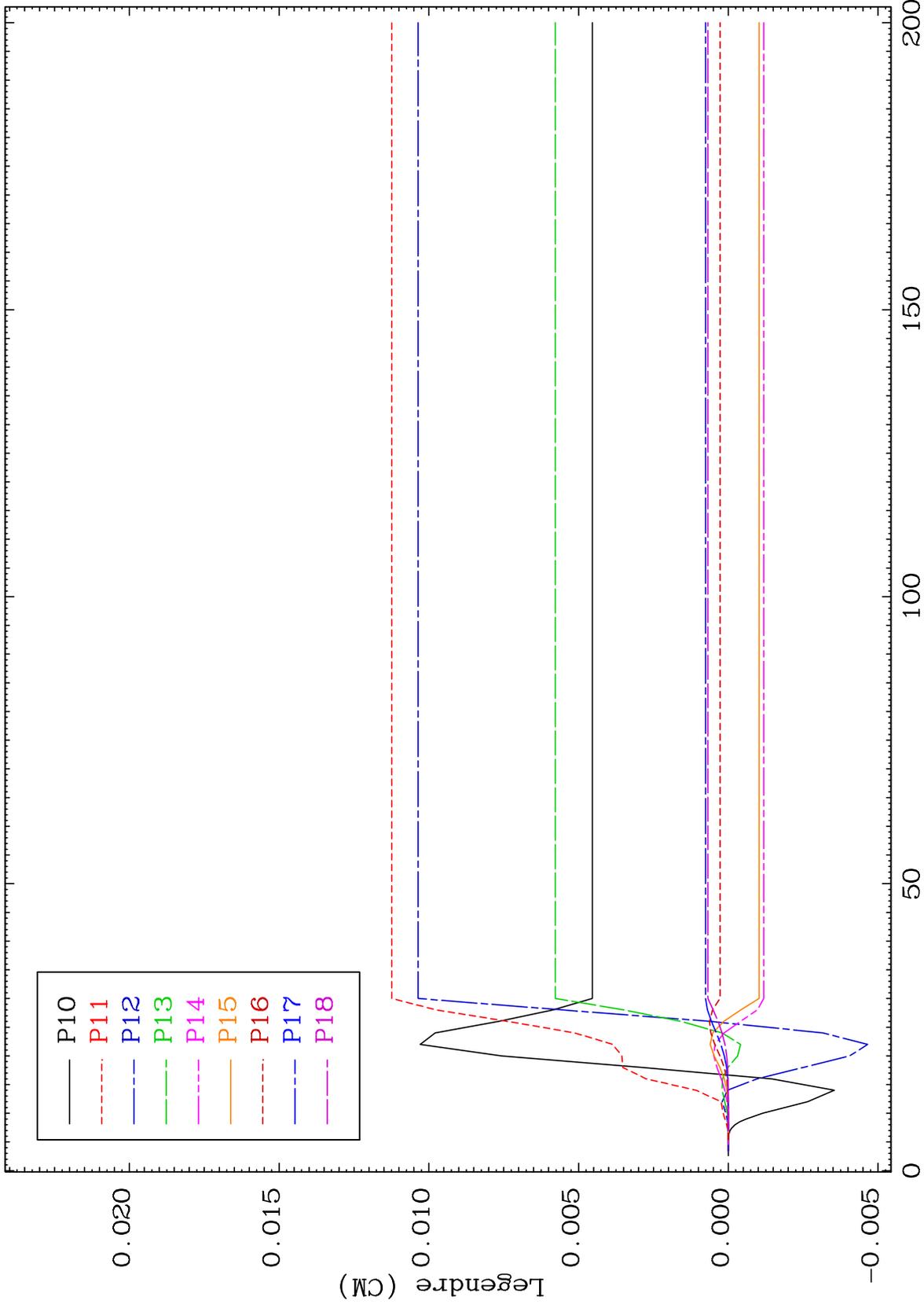
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 65 (n,n') Level  
Legendre Coefficients

32-Ge-81



73

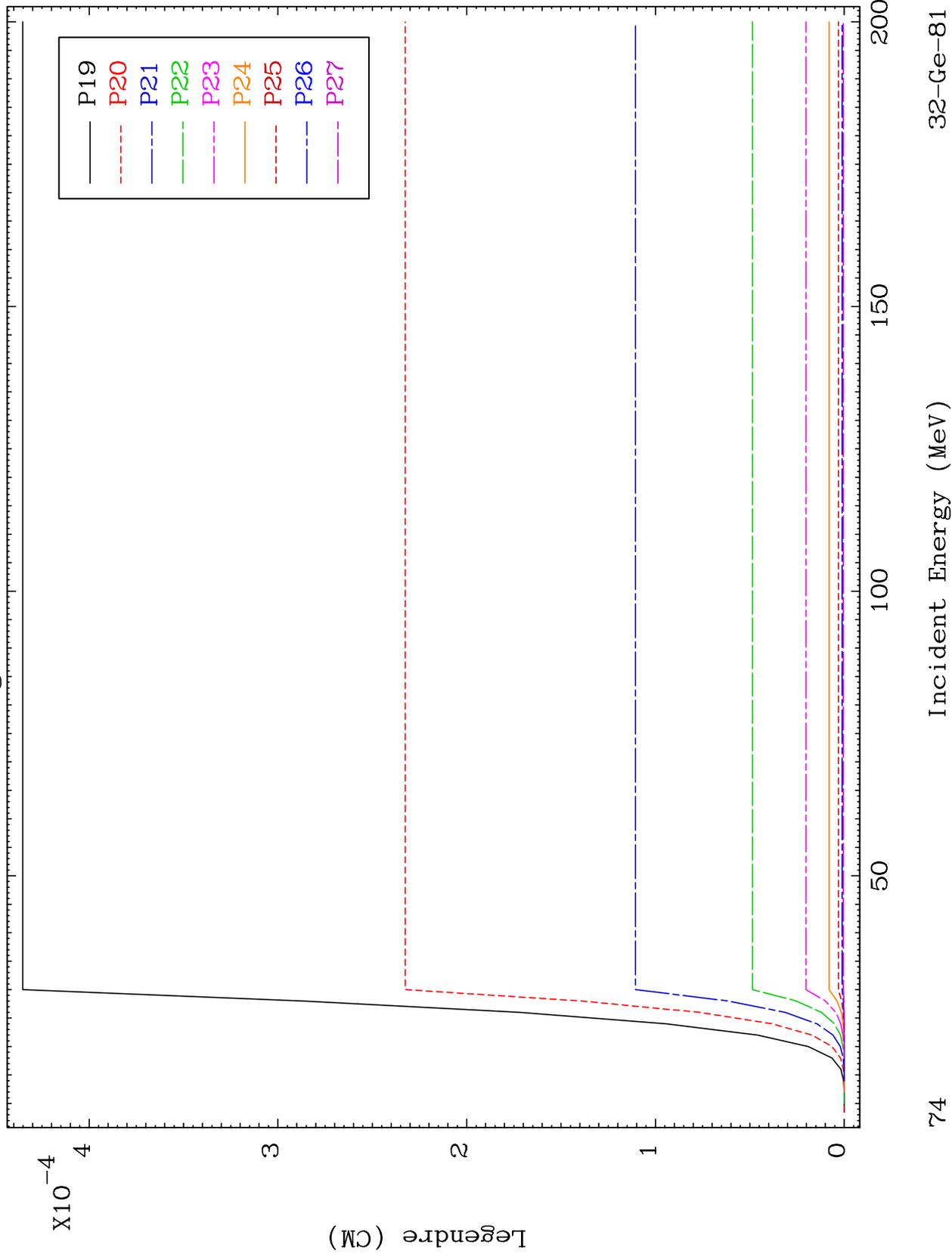
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 65 (n,n') Level  
Legendre Coefficients

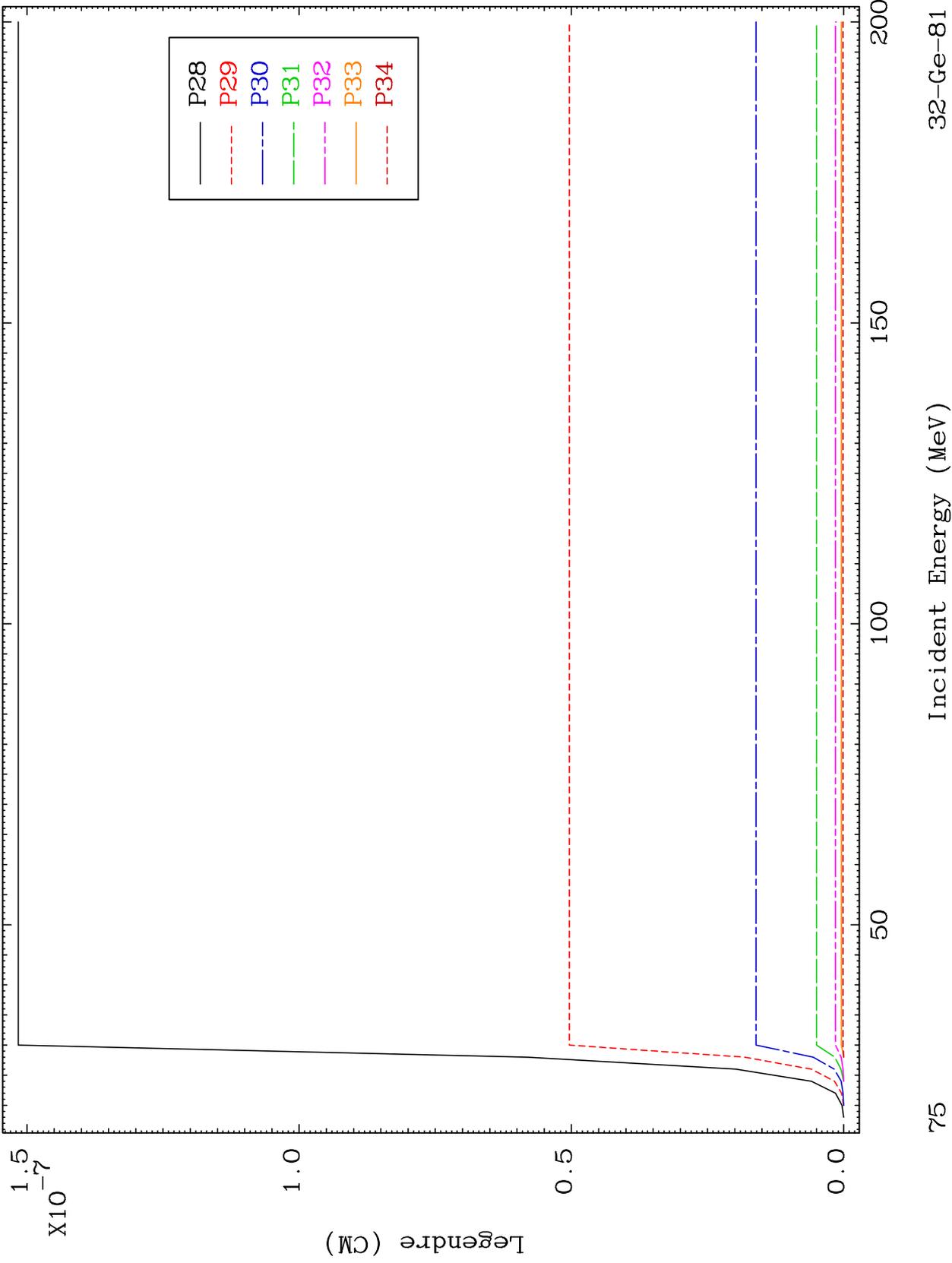
32-Ge-81



MAT 3258

MT= 65 (n,n') Level  
Legendre Coefficients

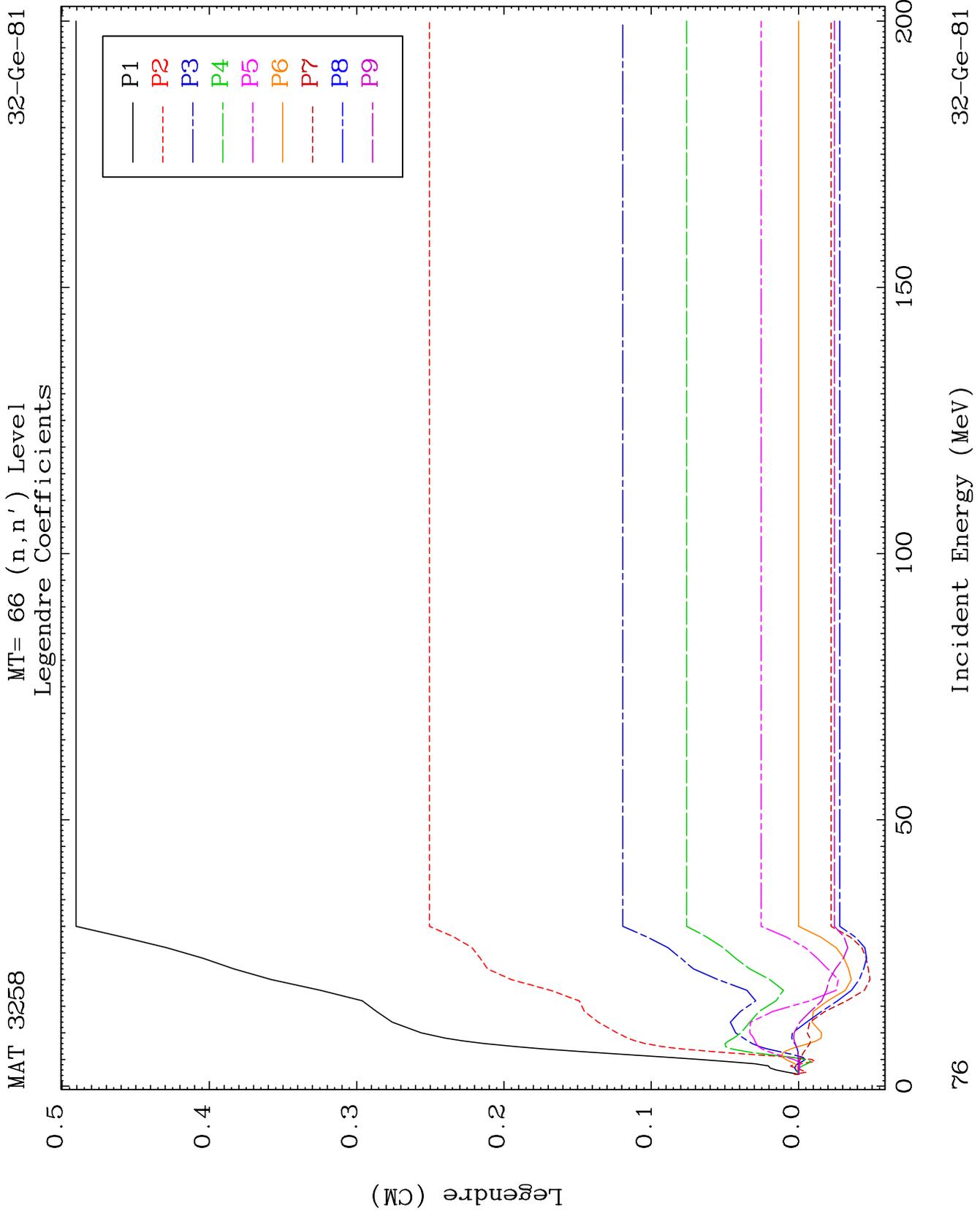
32-Ge-81



75

Incident Energy (MeV)

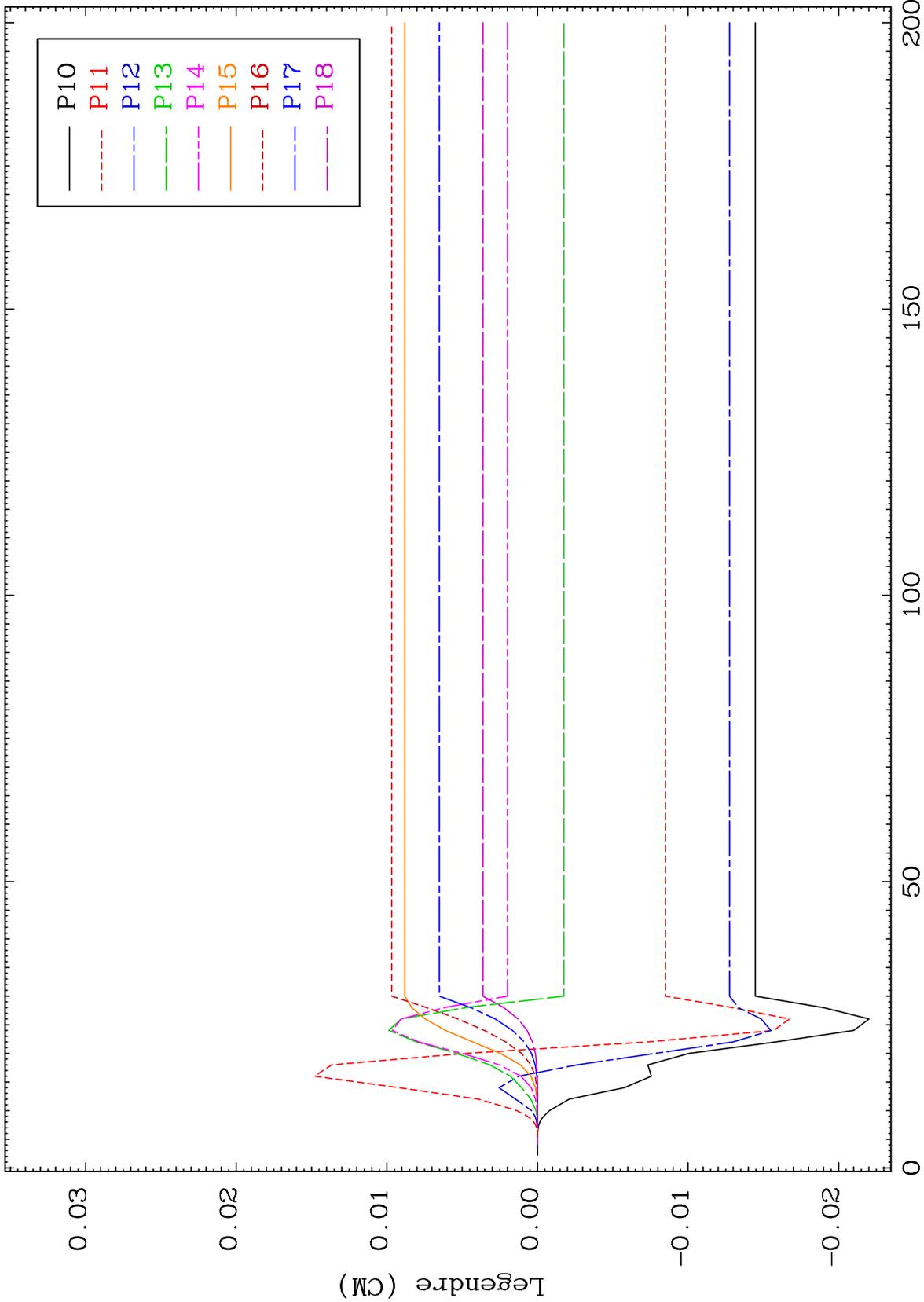
32-Ge-81



MAT 3258

MT= 66 (n,n') Level  
Legendre Coefficients

32-Ge-81



77

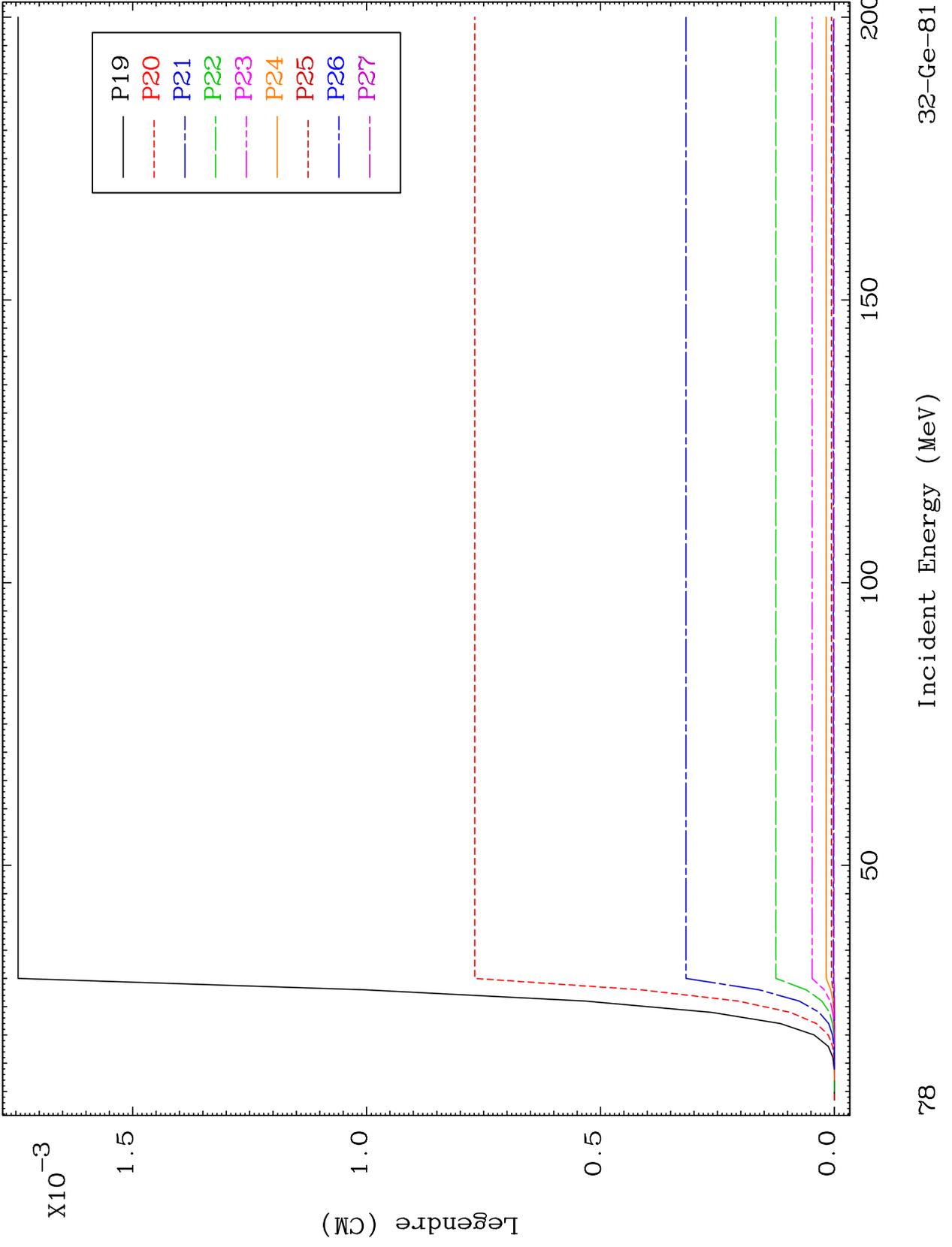
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 66 (n,n') Level  
Legendre Coefficients

32-Ge-81



78

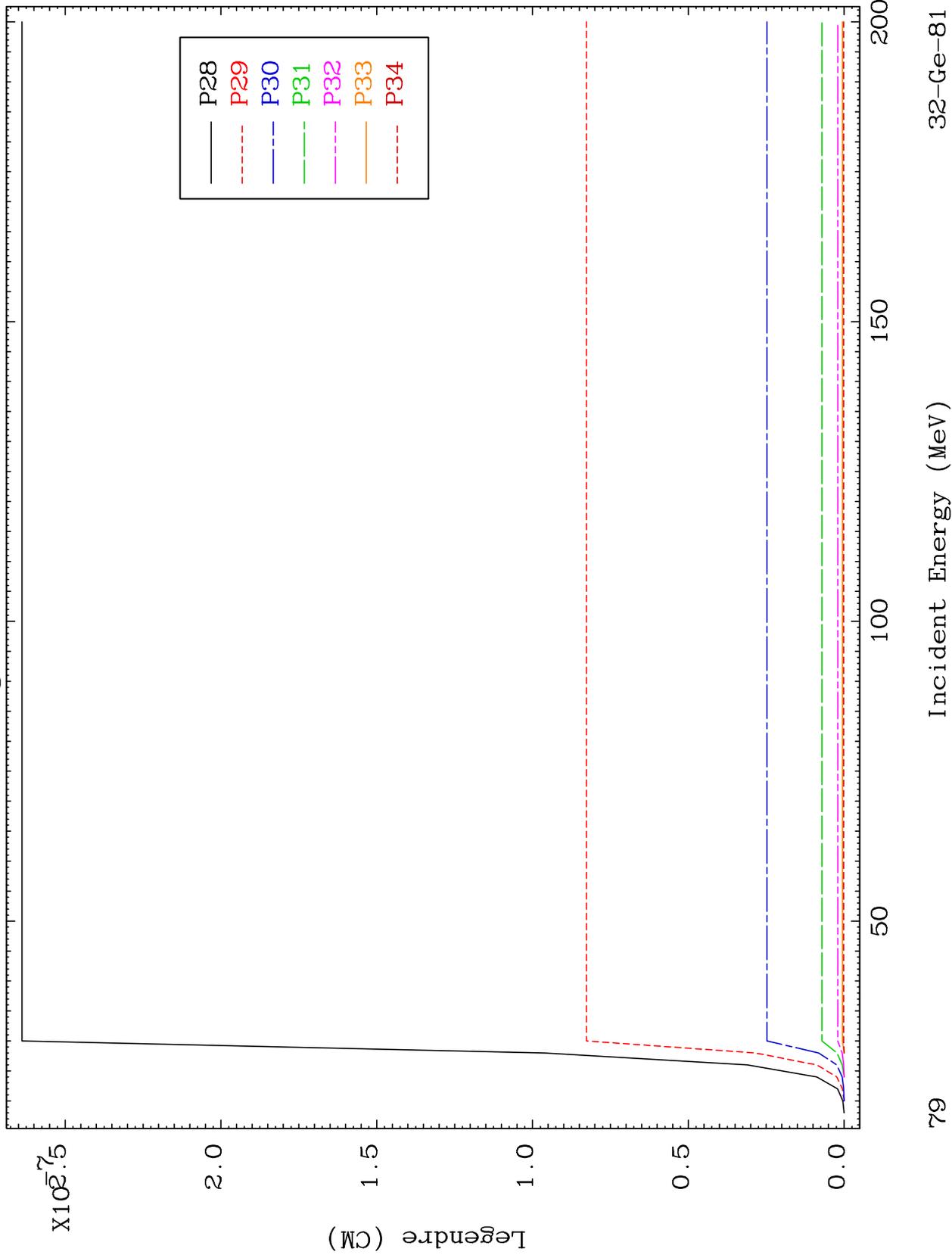
Incident Energy (MeV)

32-Ge-81

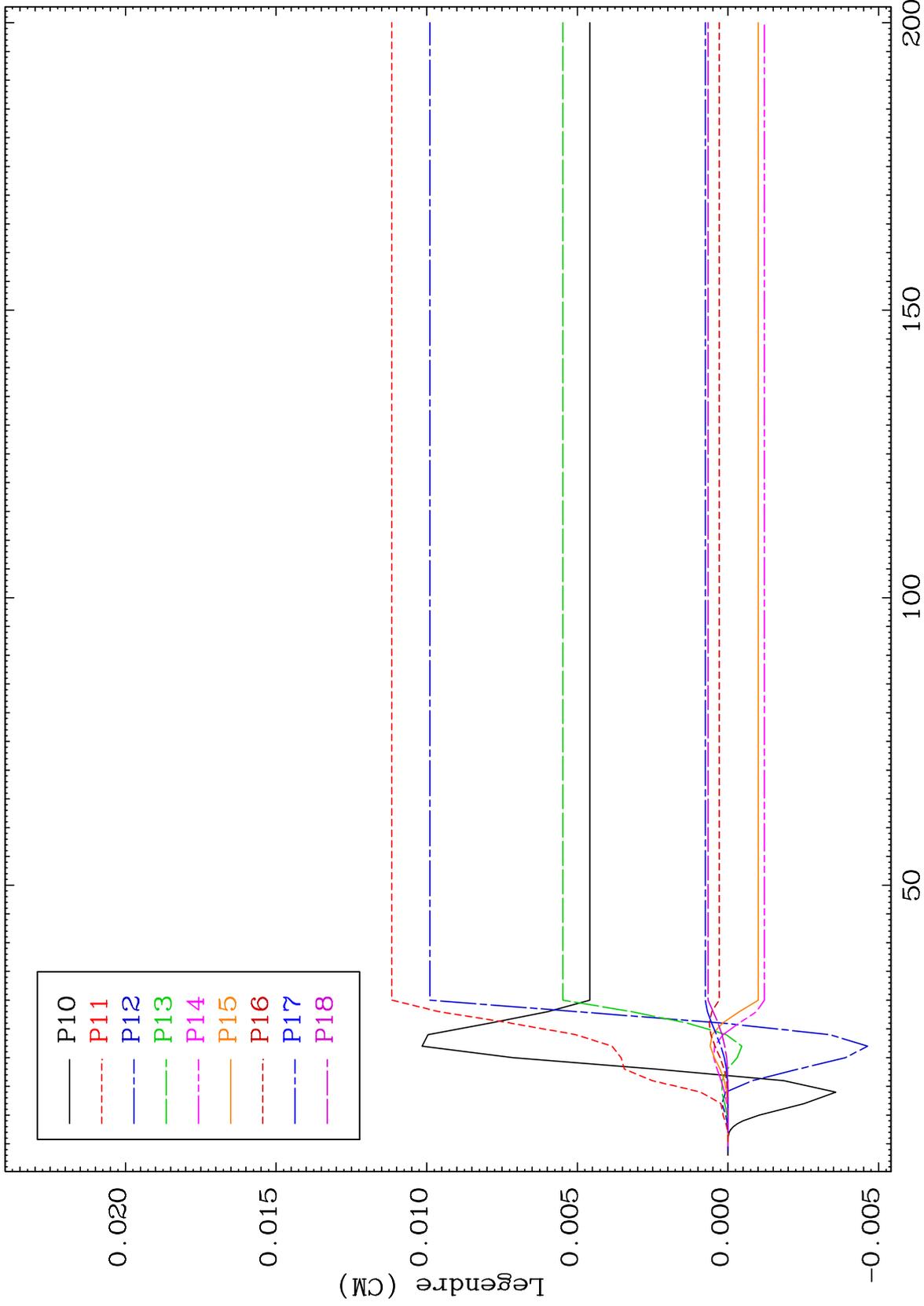
MAT 3258

MT= 66 (n,n') Level  
Legendre Coefficients

32-Ge-81



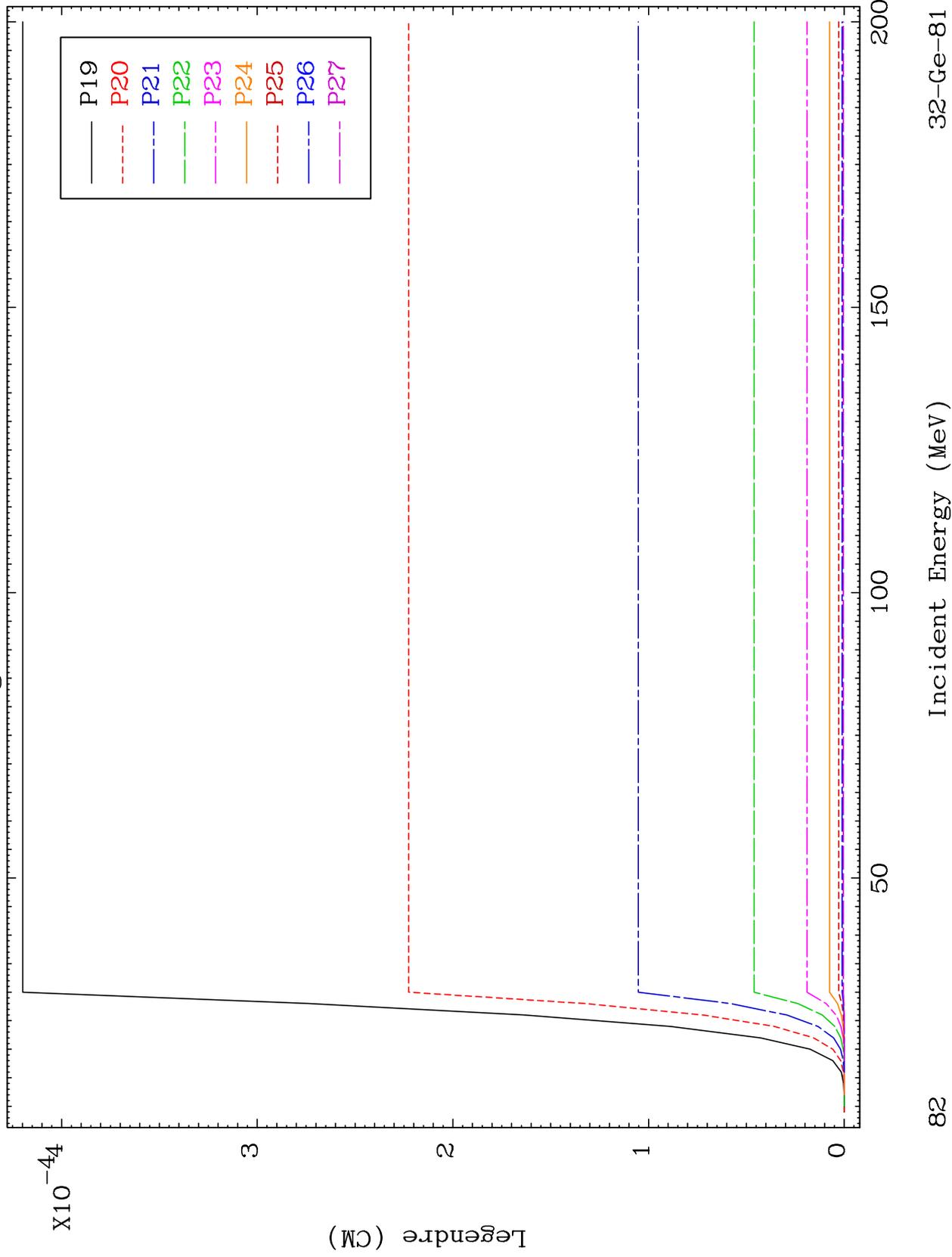




MAT 3258

MT= 67 (n,n') Level  
Legendre Coefficients

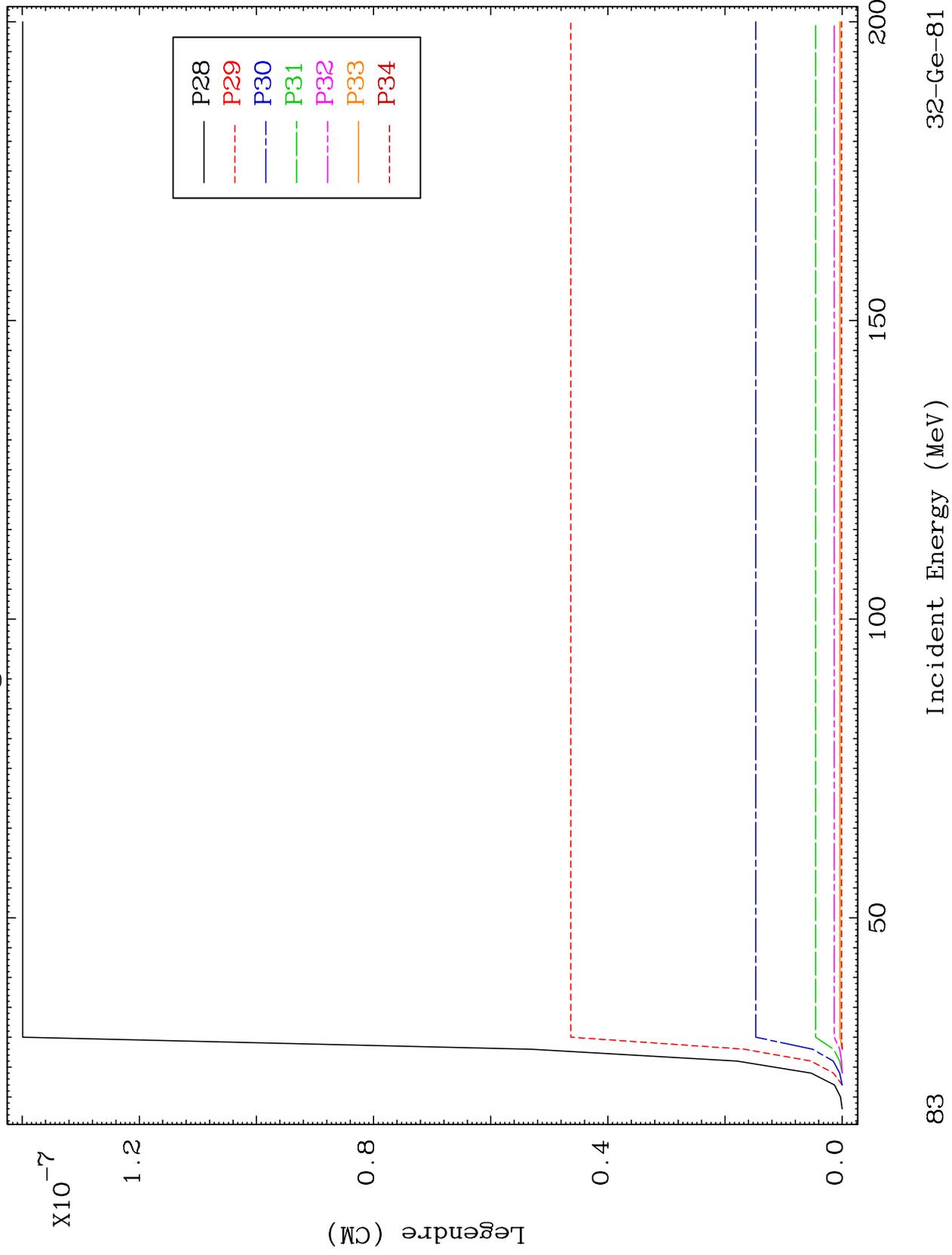
32-Ge-81



MAT 3258

MT= 67 (n,n') Level  
Legendre Coefficients

32-Ge-81



83

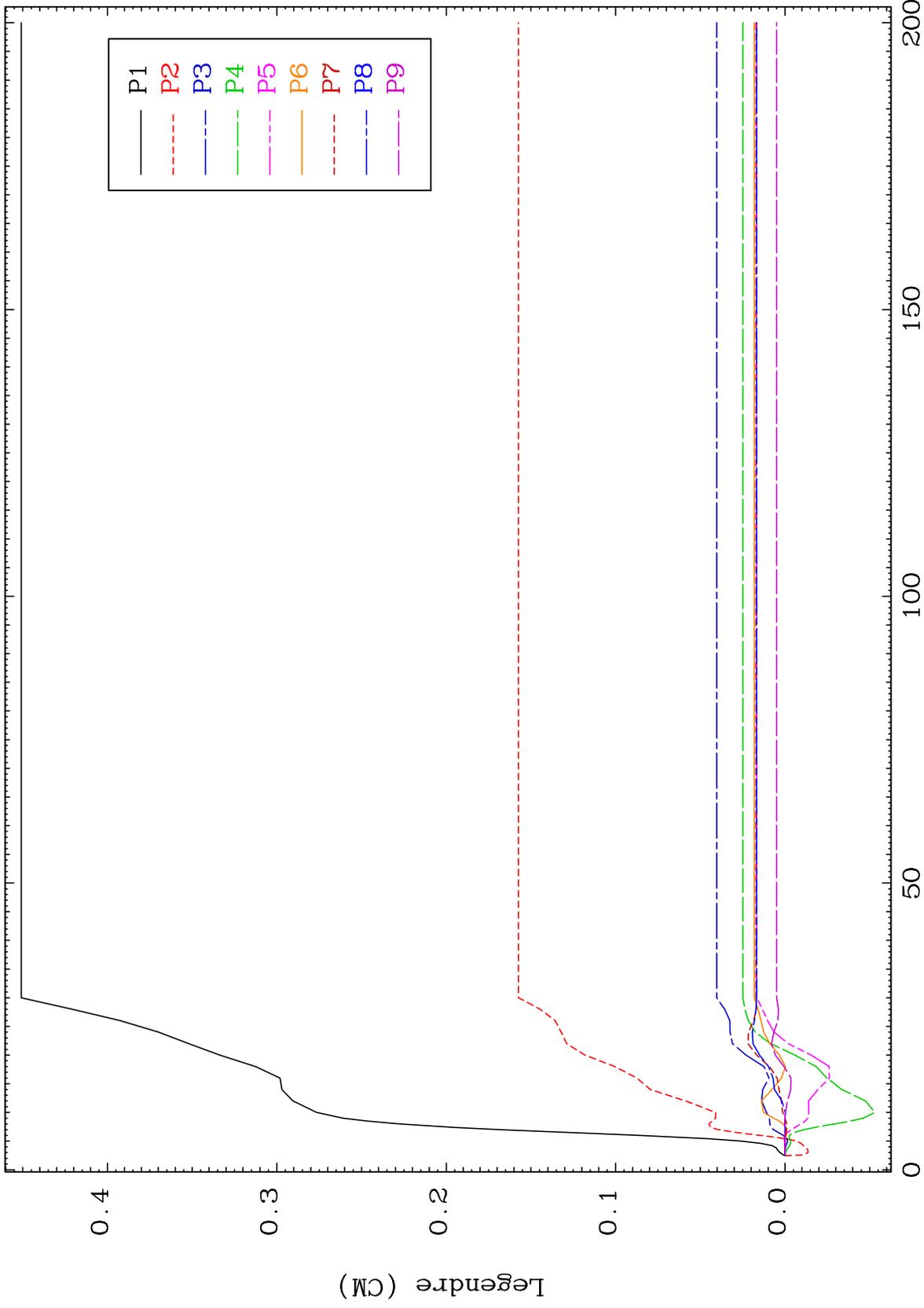
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 68 (n,n') Level  
Legendre Coefficients

32-Ge-81



84

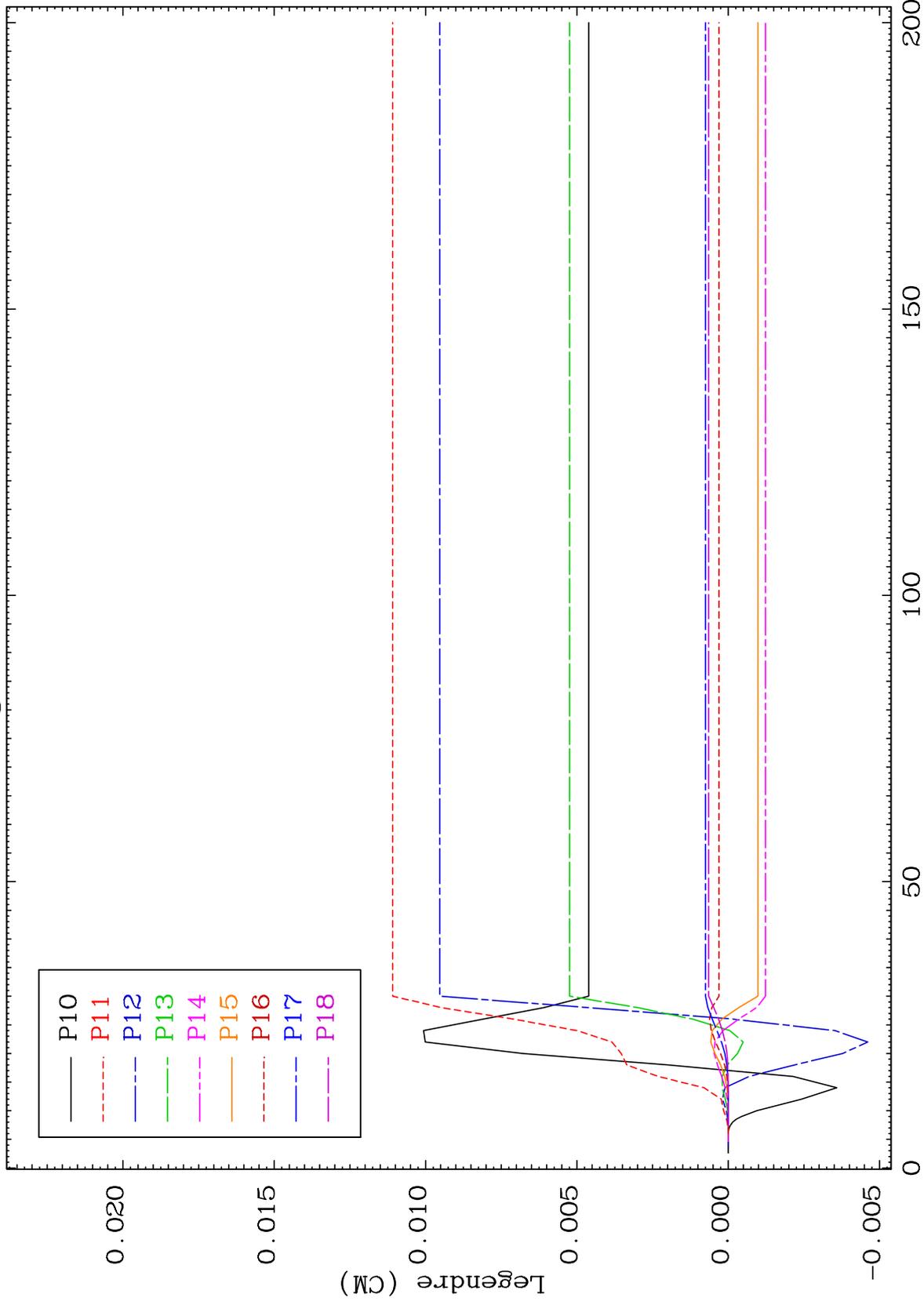
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 68 (n,n') Level  
Legendre Coefficients

32-Ge-81



85

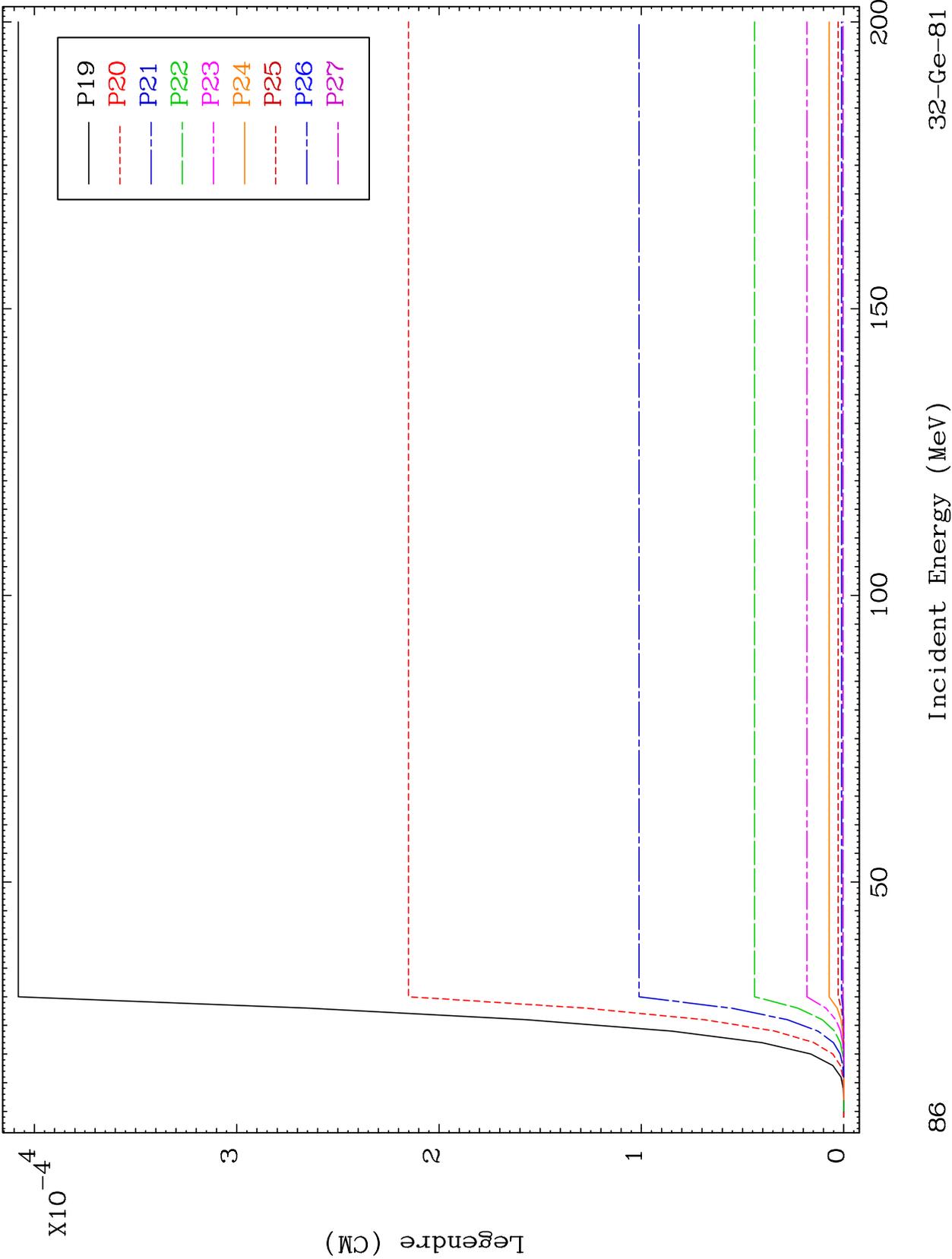
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 68 (n,n') Level  
Legendre Coefficients

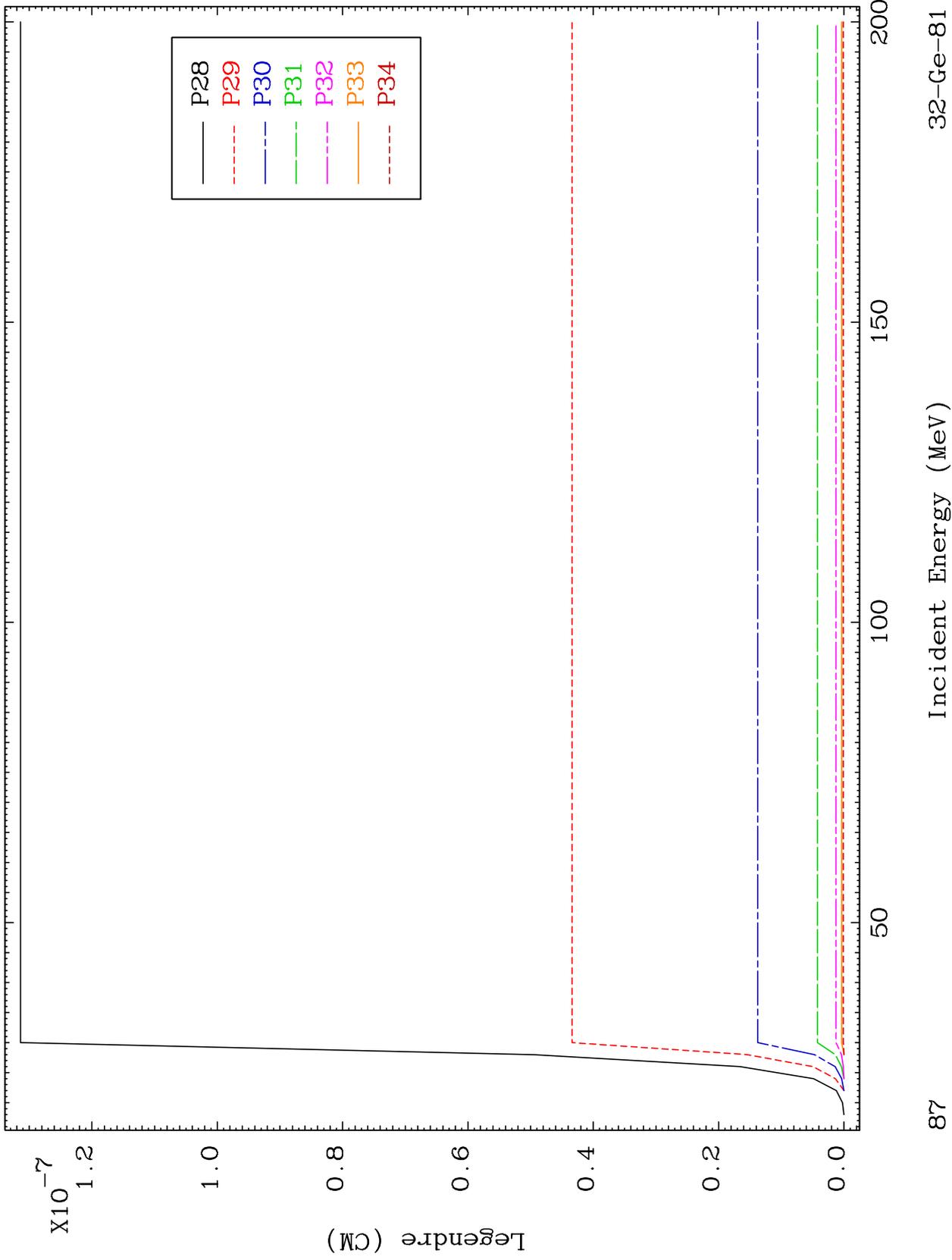
32-Ge-81



MAT 3258

MT= 68 (n,n') Level  
Legendre Coefficients

32-Ge-81



87

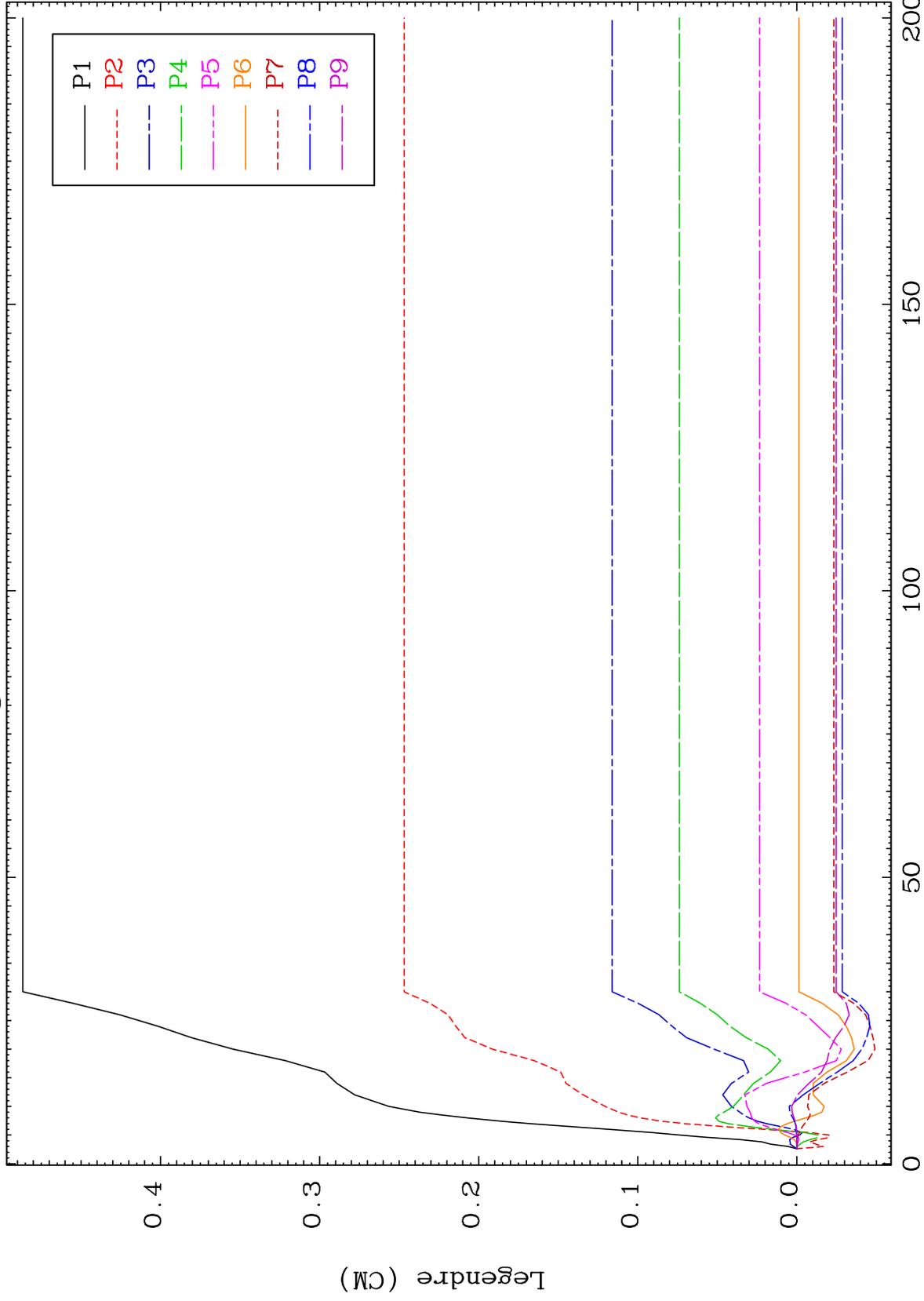
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 69 (n,n') Level  
Legendre Coefficients

32-Ge-81



88

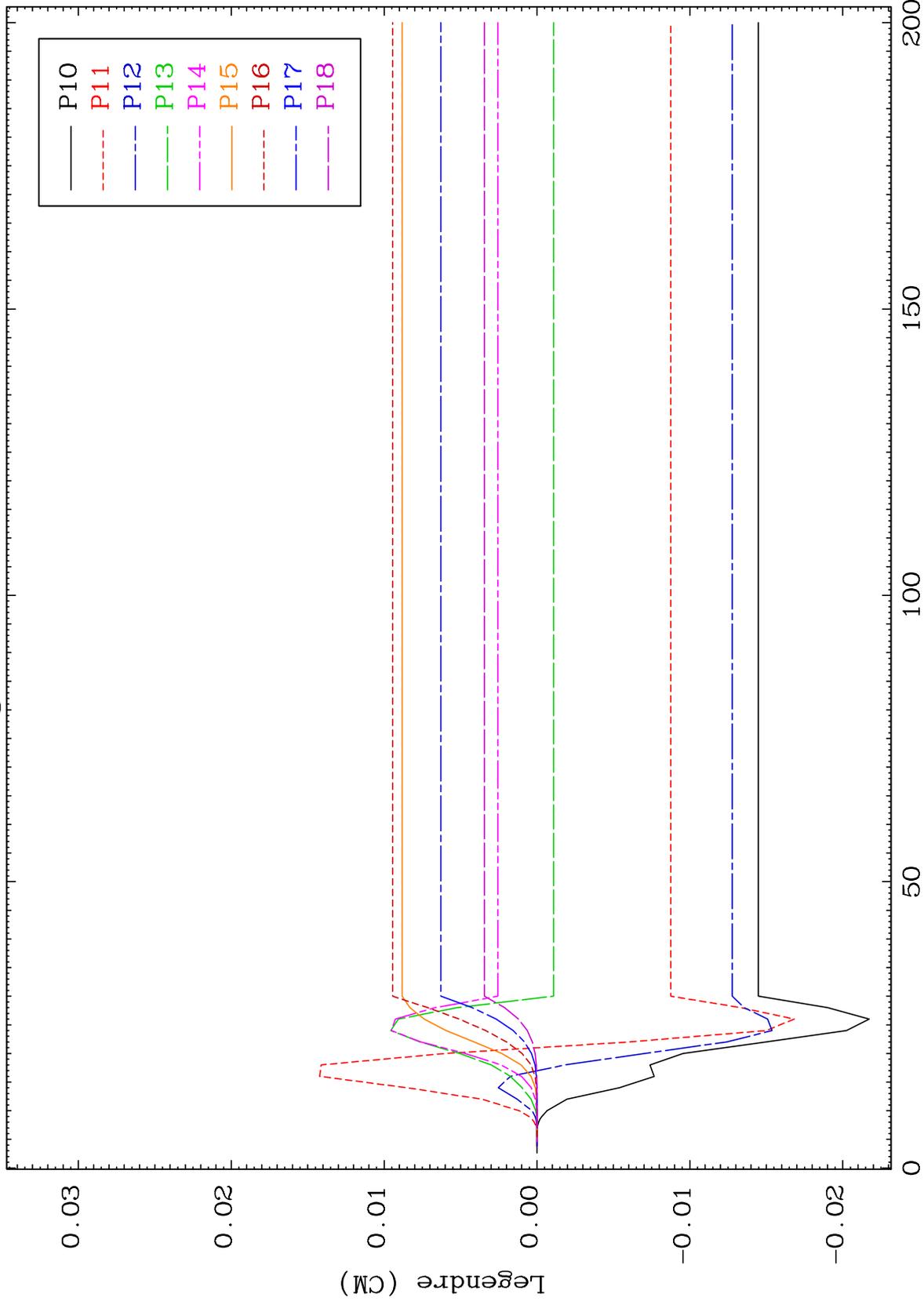
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 69 (n,n') Level  
Legendre Coefficients

32-Ge-81



89

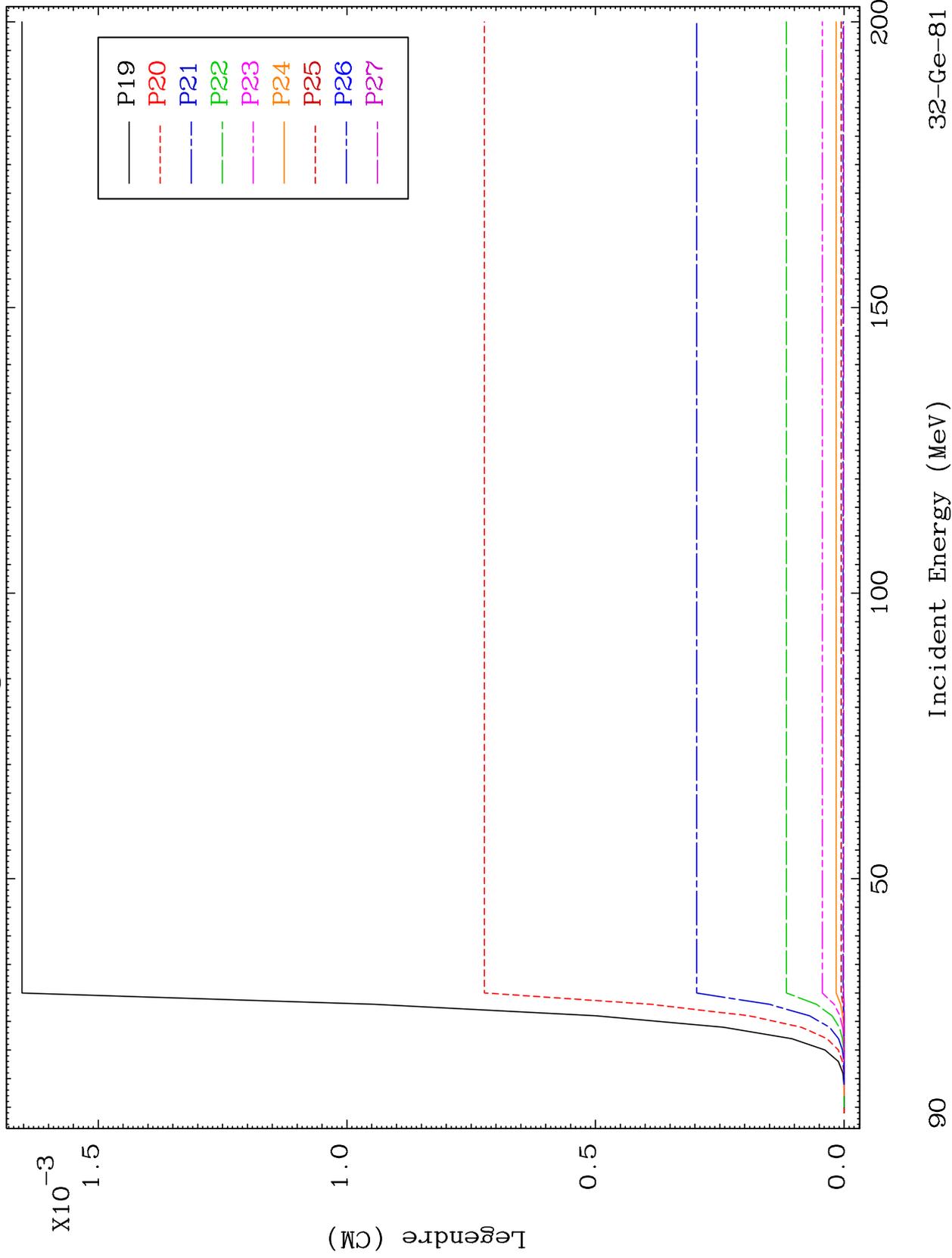
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 69 (n,n') Level  
Legendre Coefficients

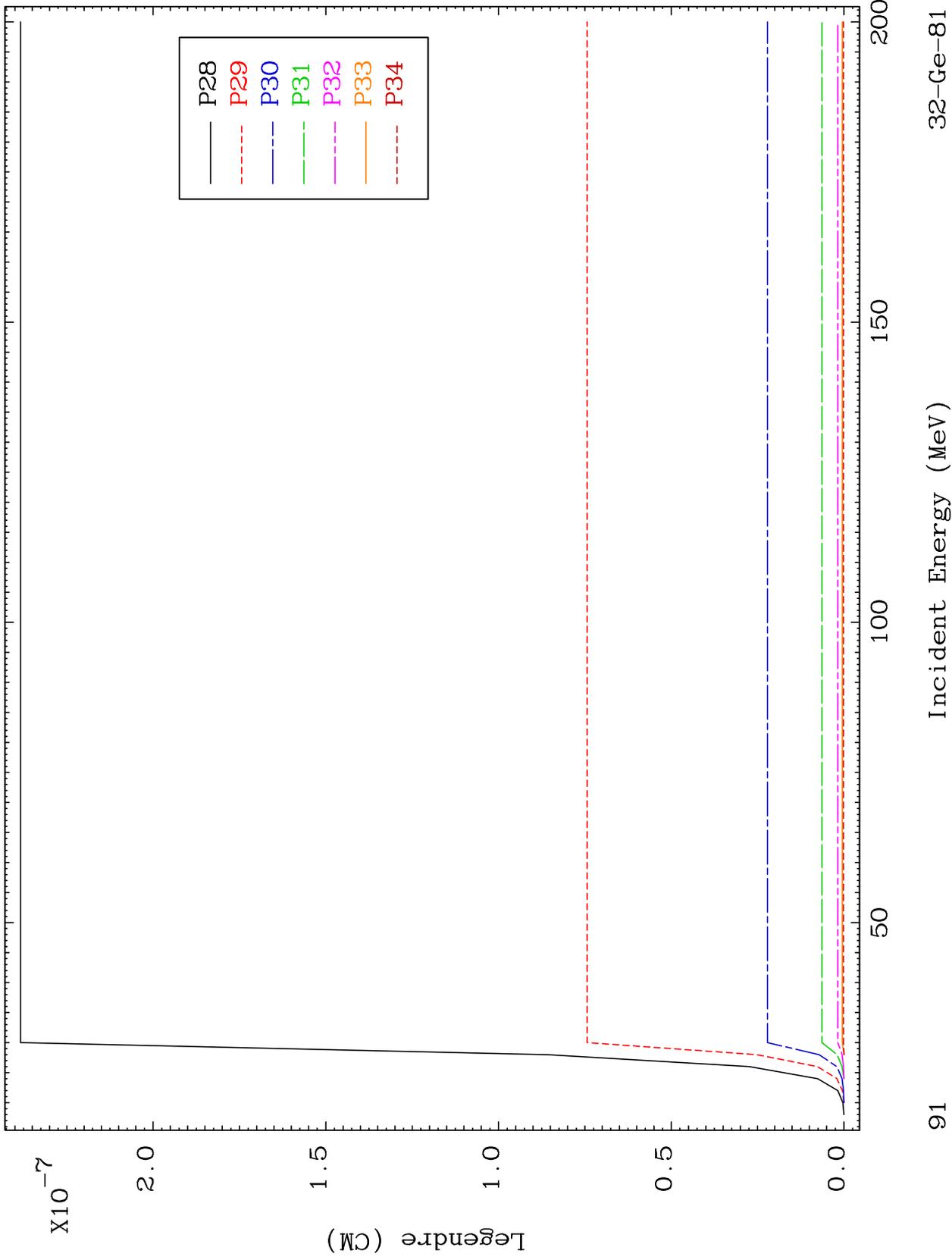
32-Ge-81



MAT 3258

MT= 69 (n,n') Level  
Legendre Coefficients

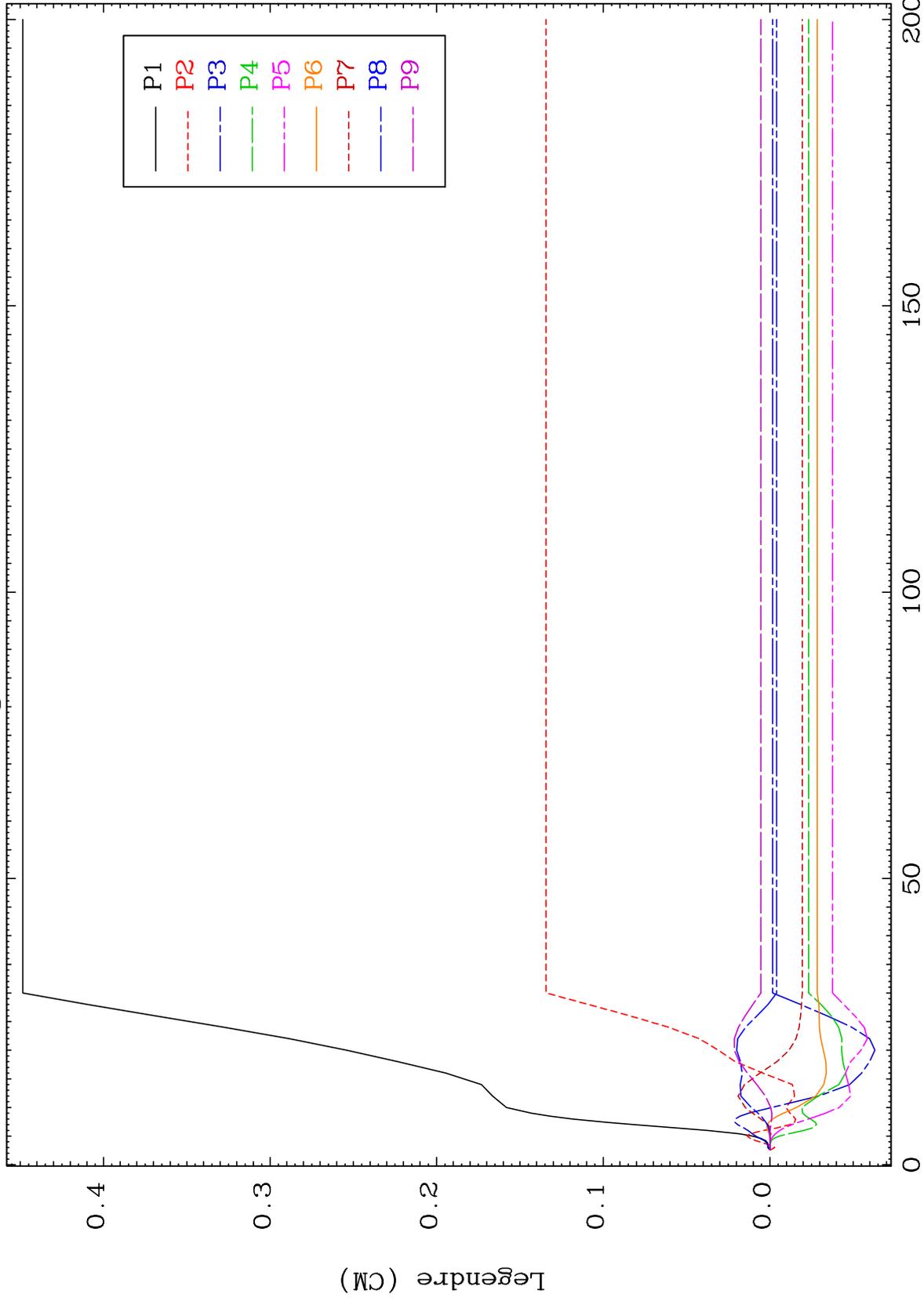
32-Ge-81



MAT 3258

MT= 70 (n,n') Level  
Legendre Coefficients

32-Ge-81

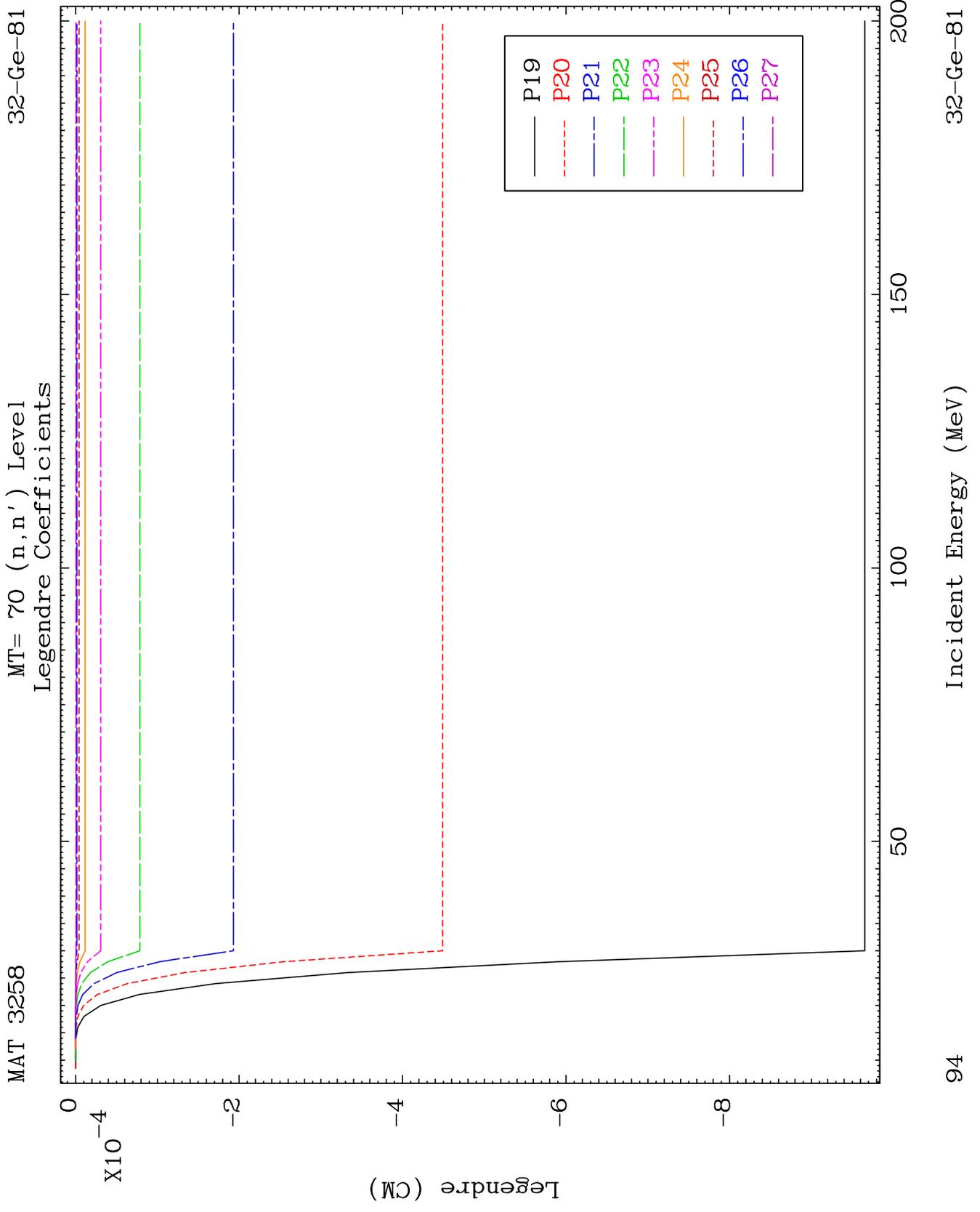


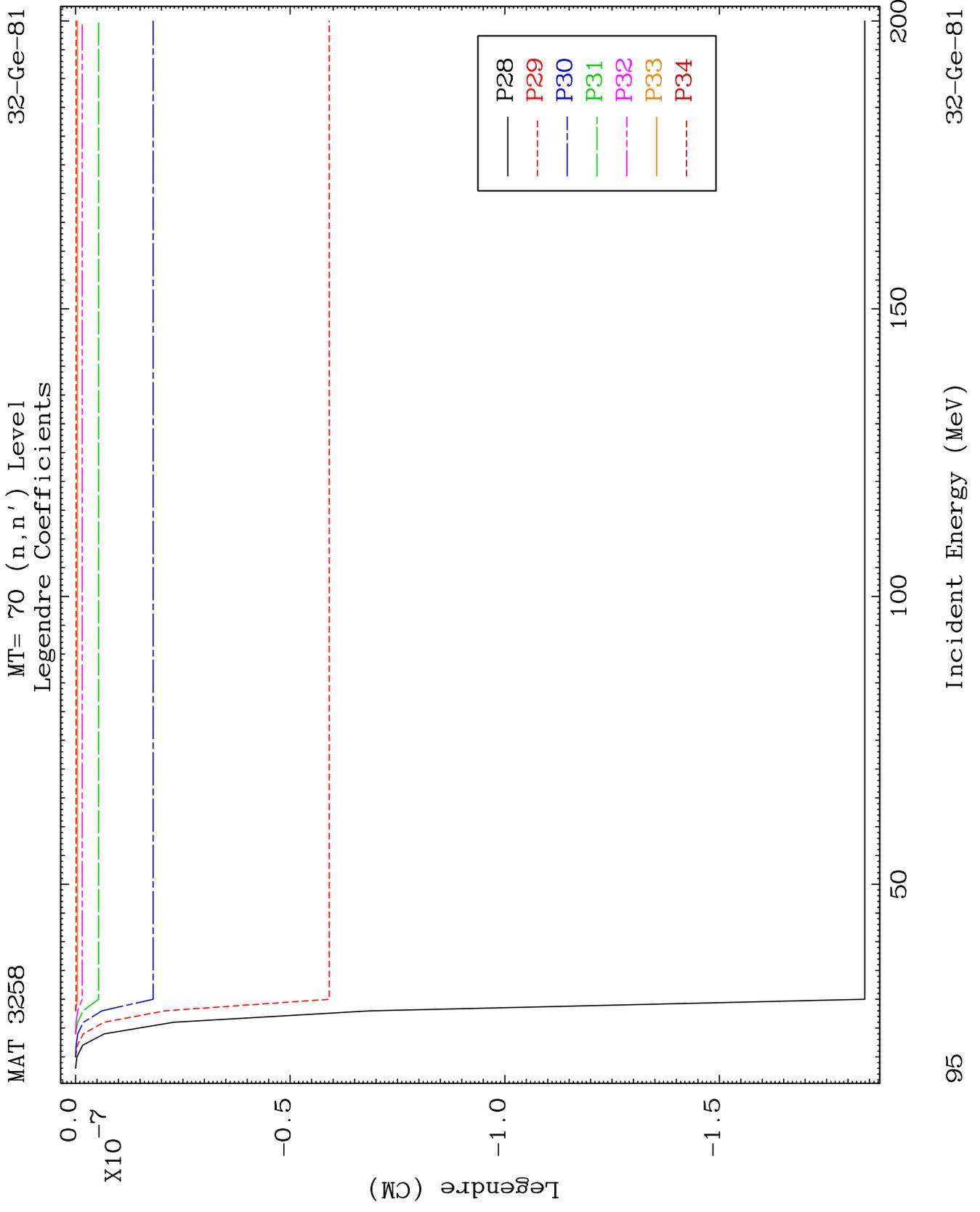
92

Incident Energy (MeV)

32-Ge-81



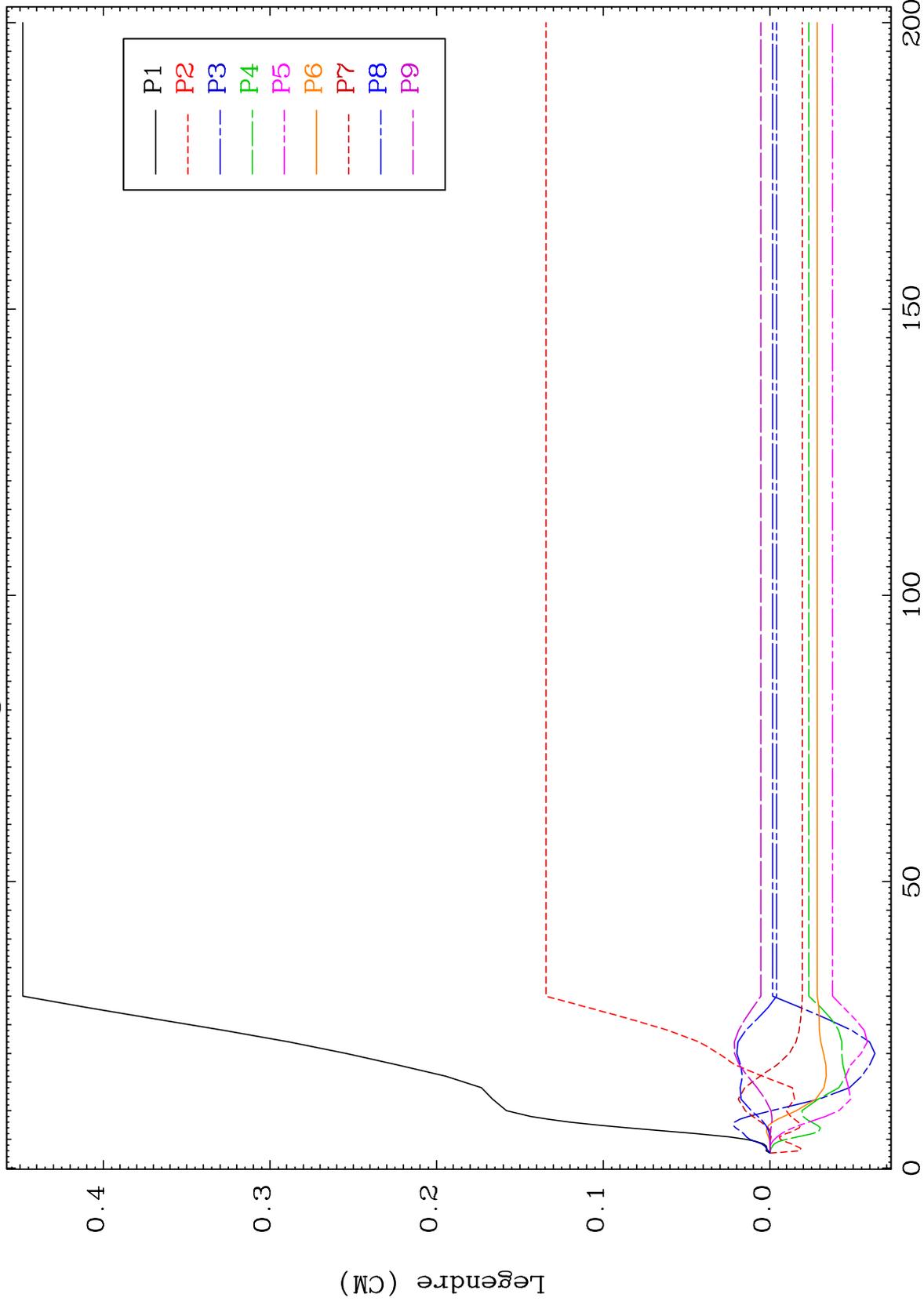




MAT 3258

MT= 71 (n,n') Level  
Legendre Coefficients

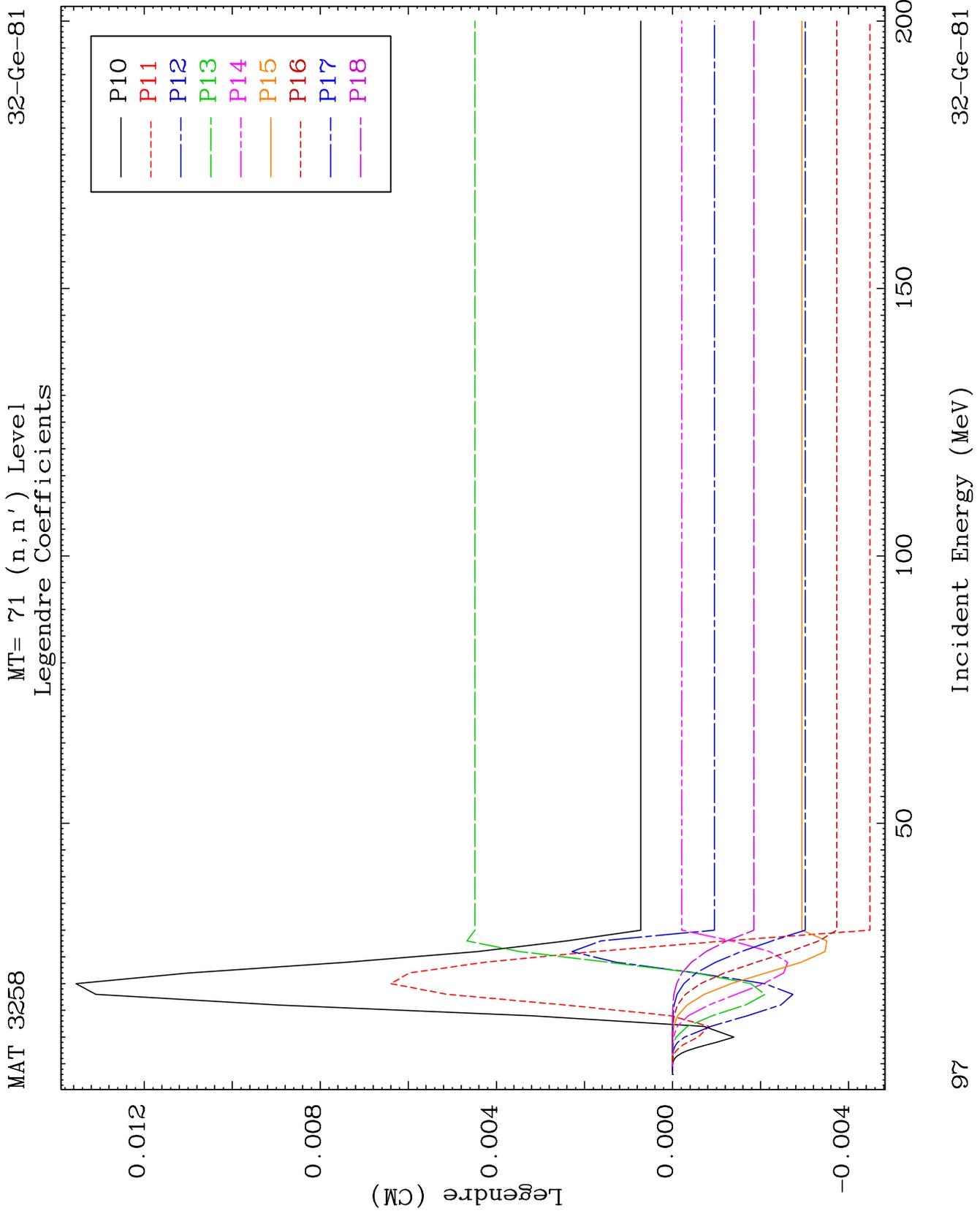
32-Ge-81

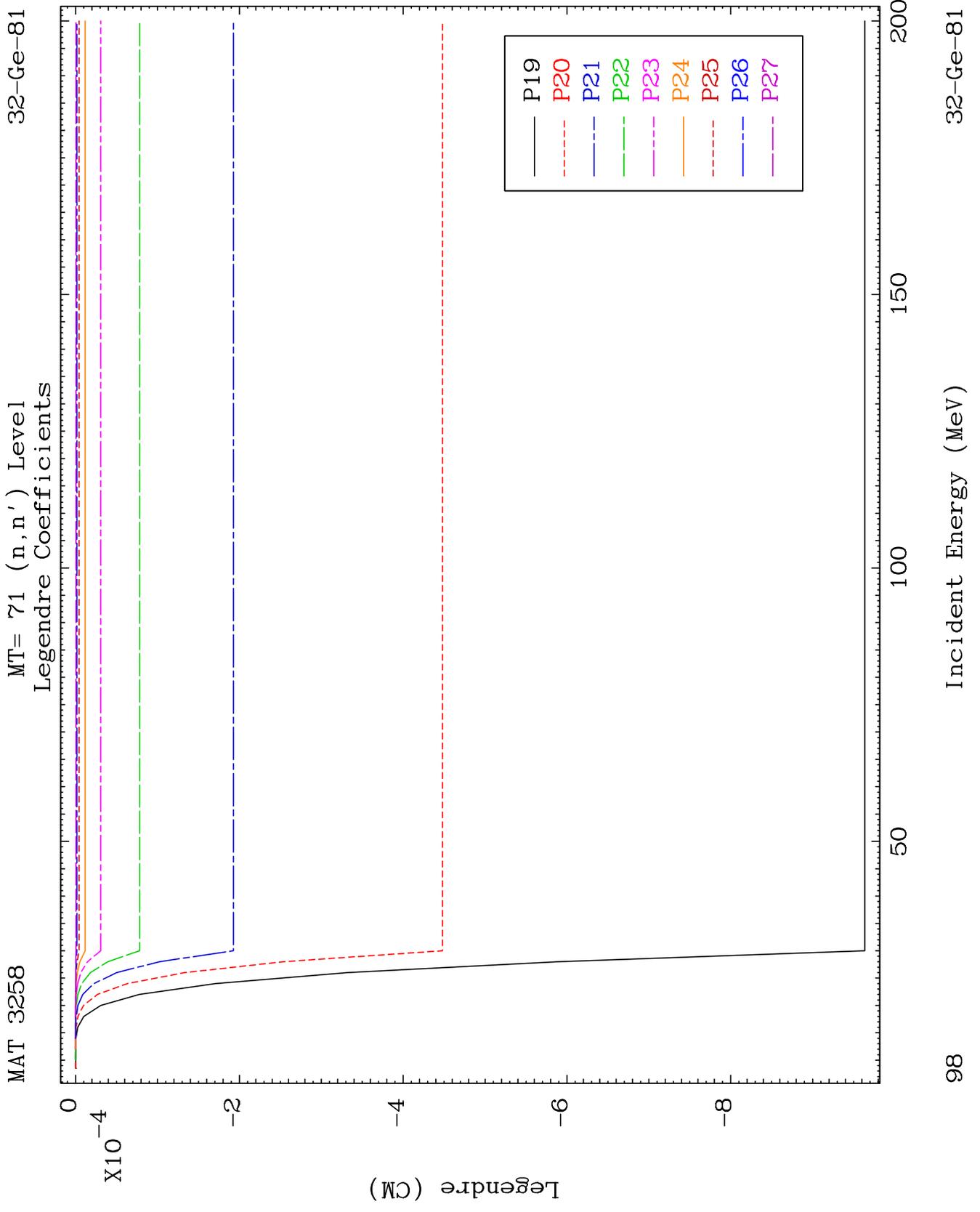


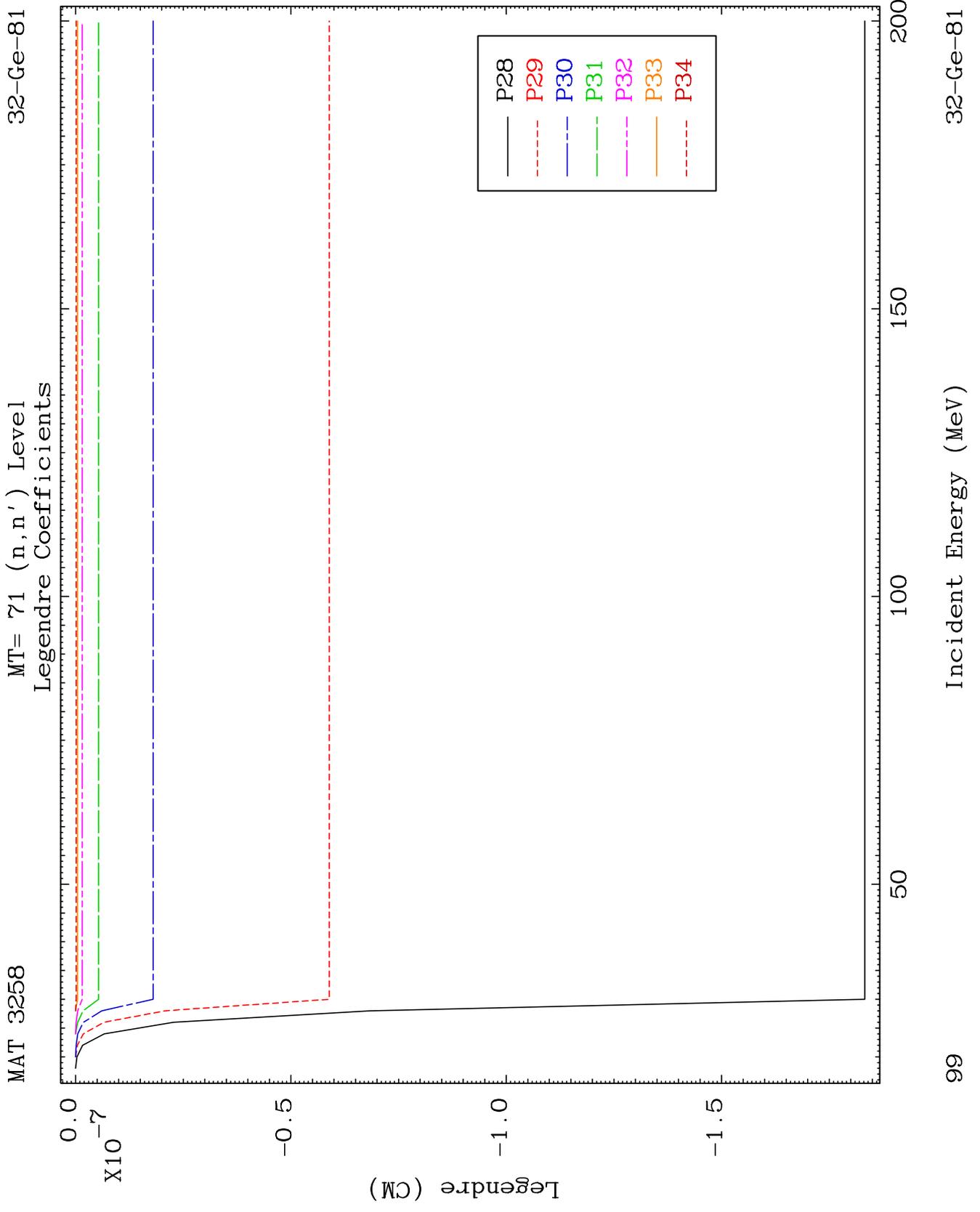
96

Incident Energy (MeV)

32-Ge-81



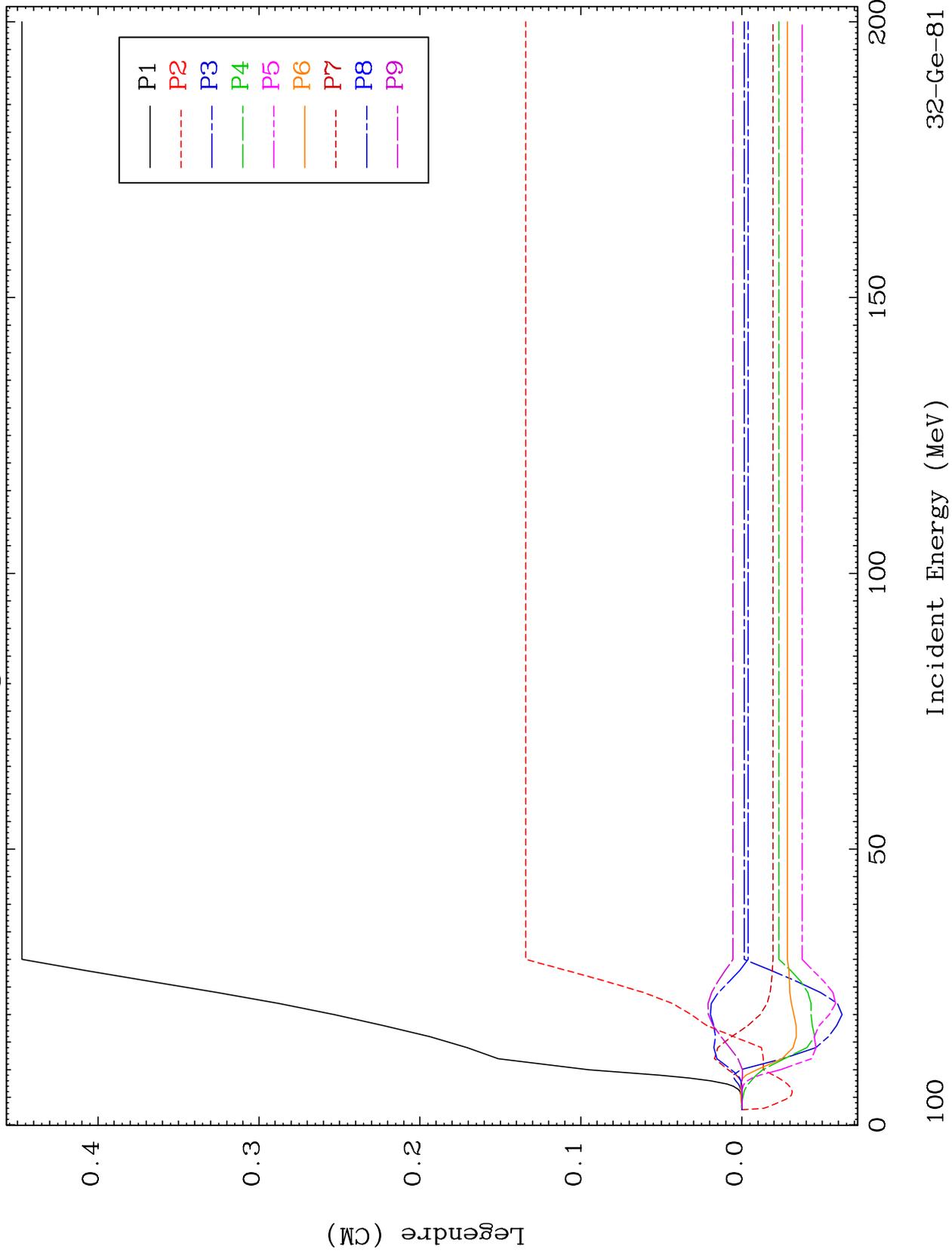




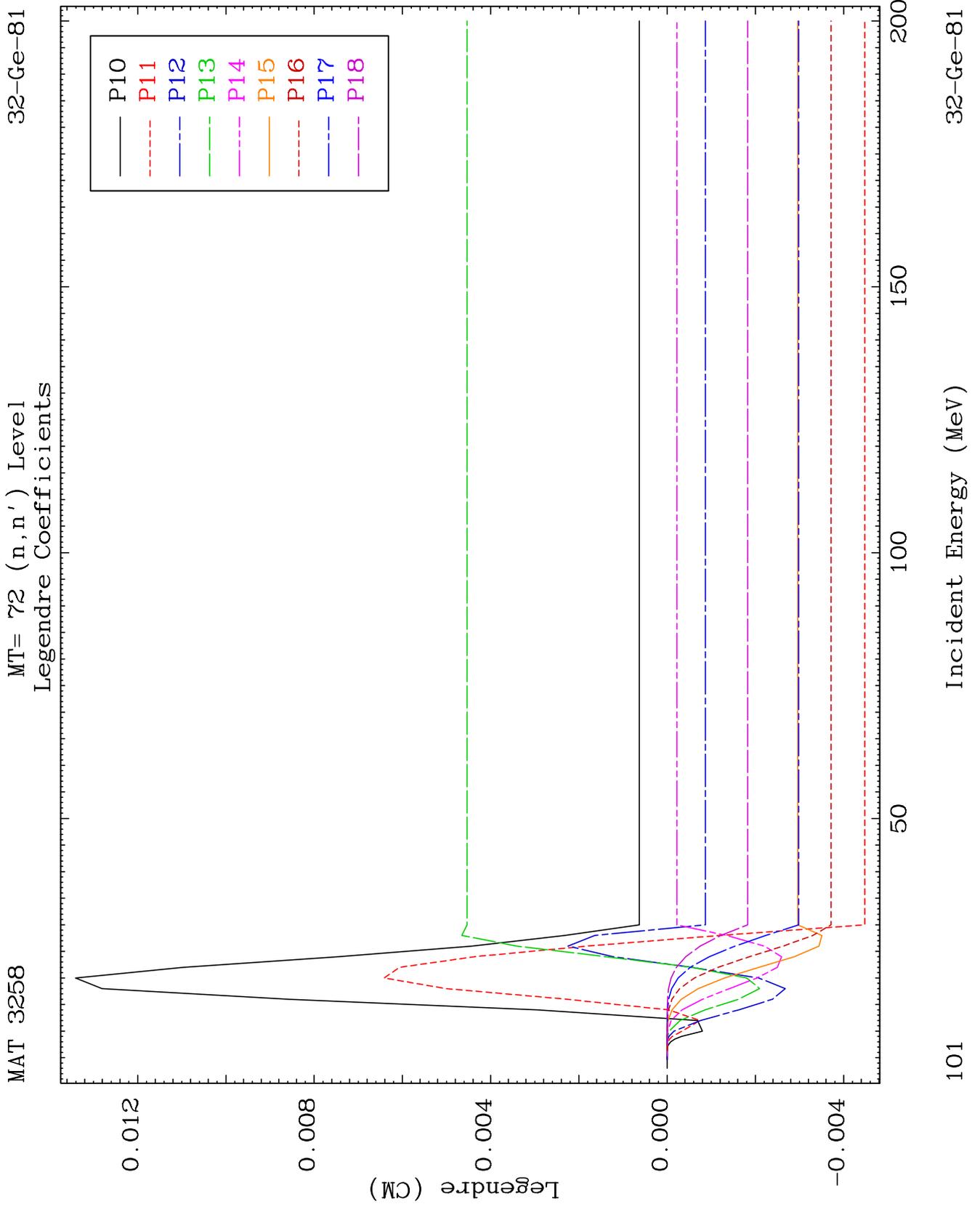
MAT 3258

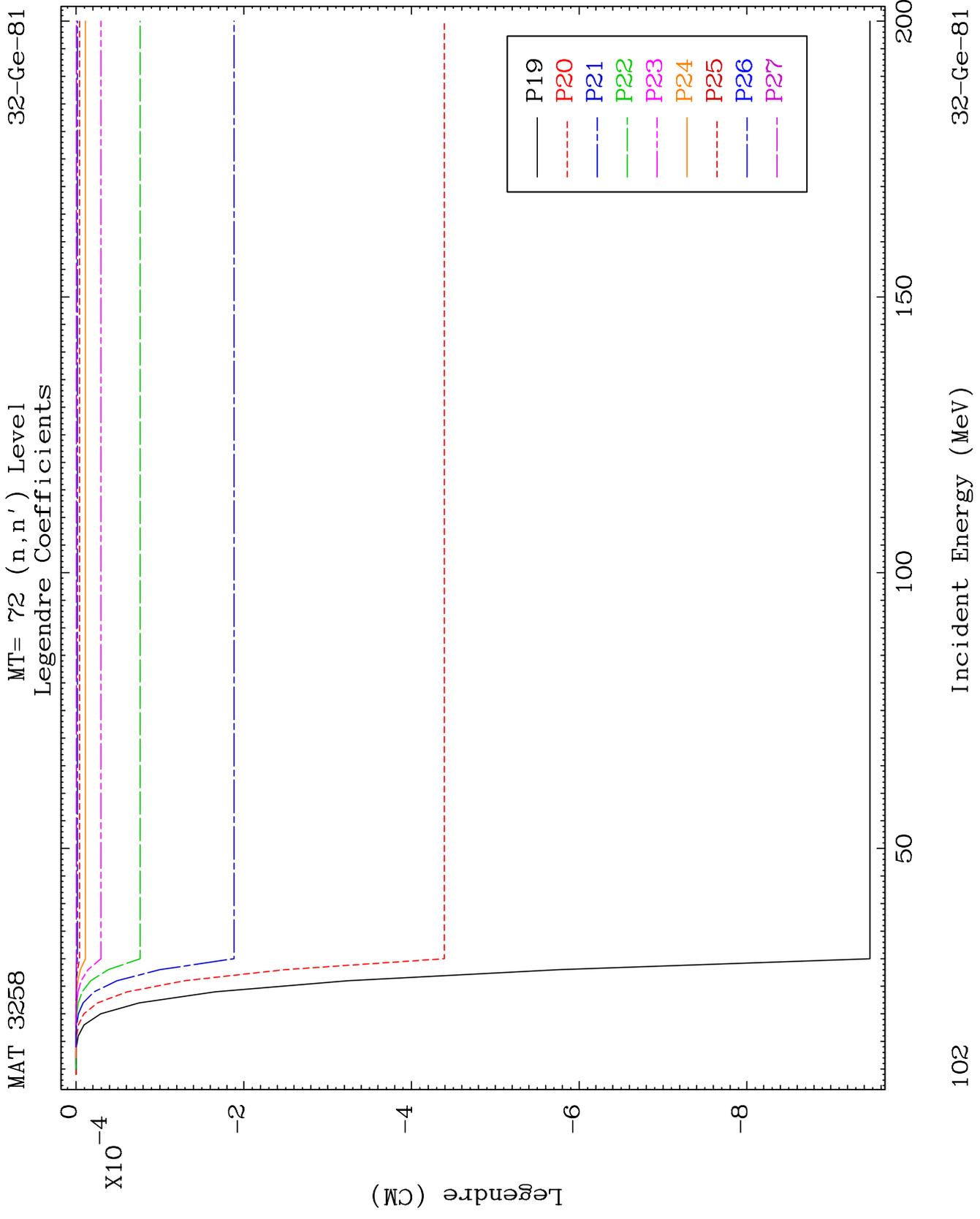
MT= 72 (n,n') Level  
Legendre Coefficients

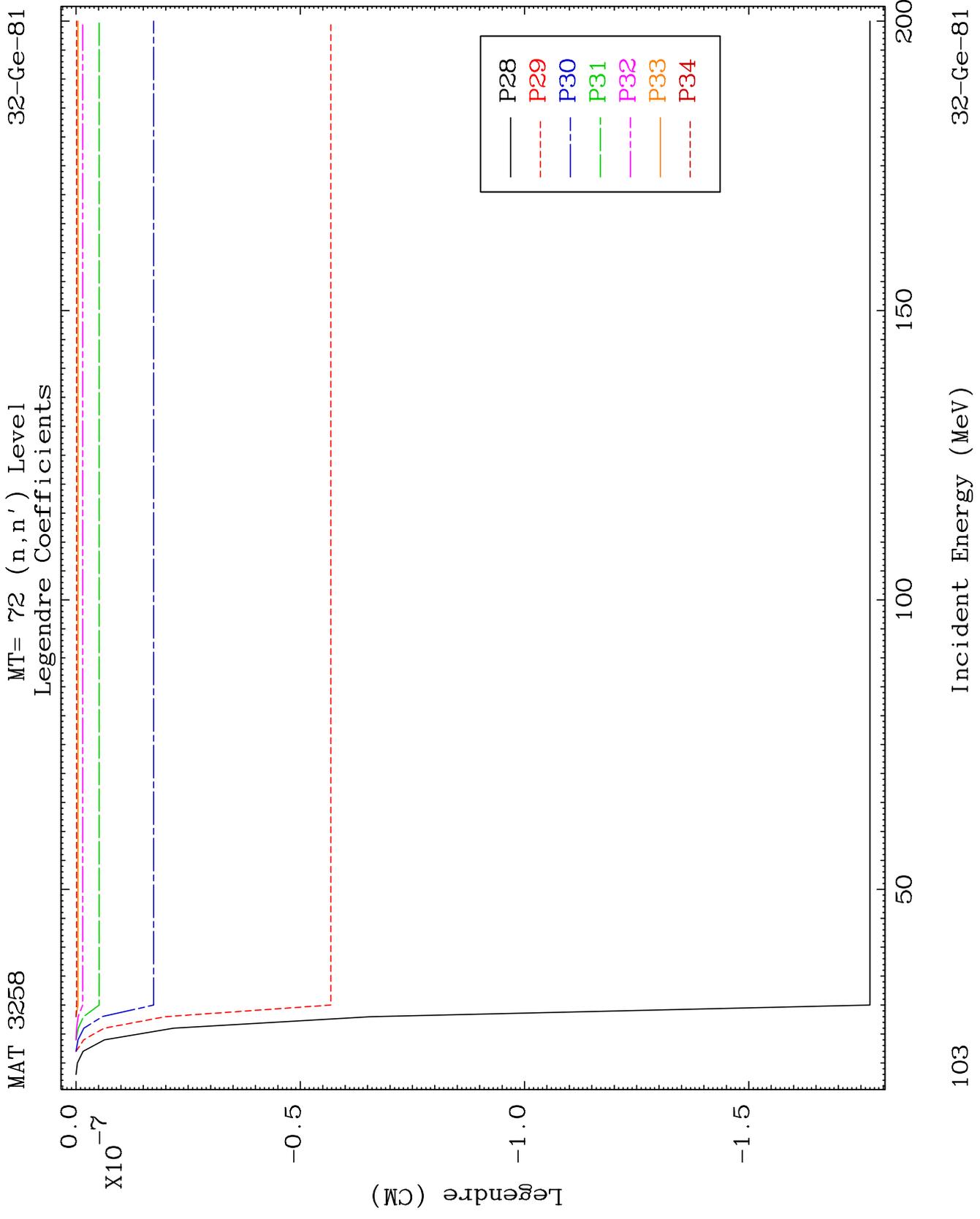
32-Ge-81



32-Ge-81



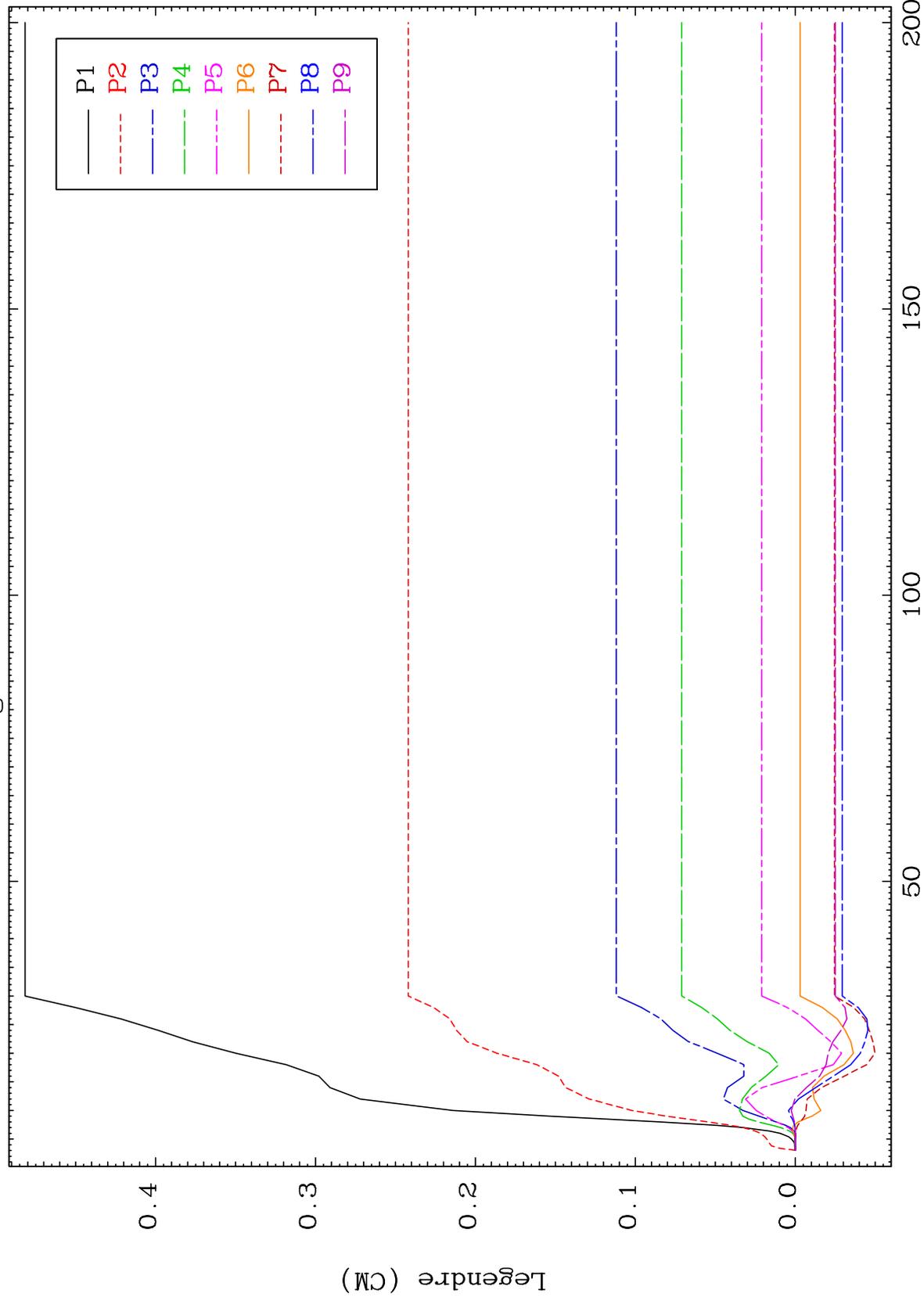




MAT 3258

MT= 73 (n,n') Level  
Legendre Coefficients

32-Ge-81



104

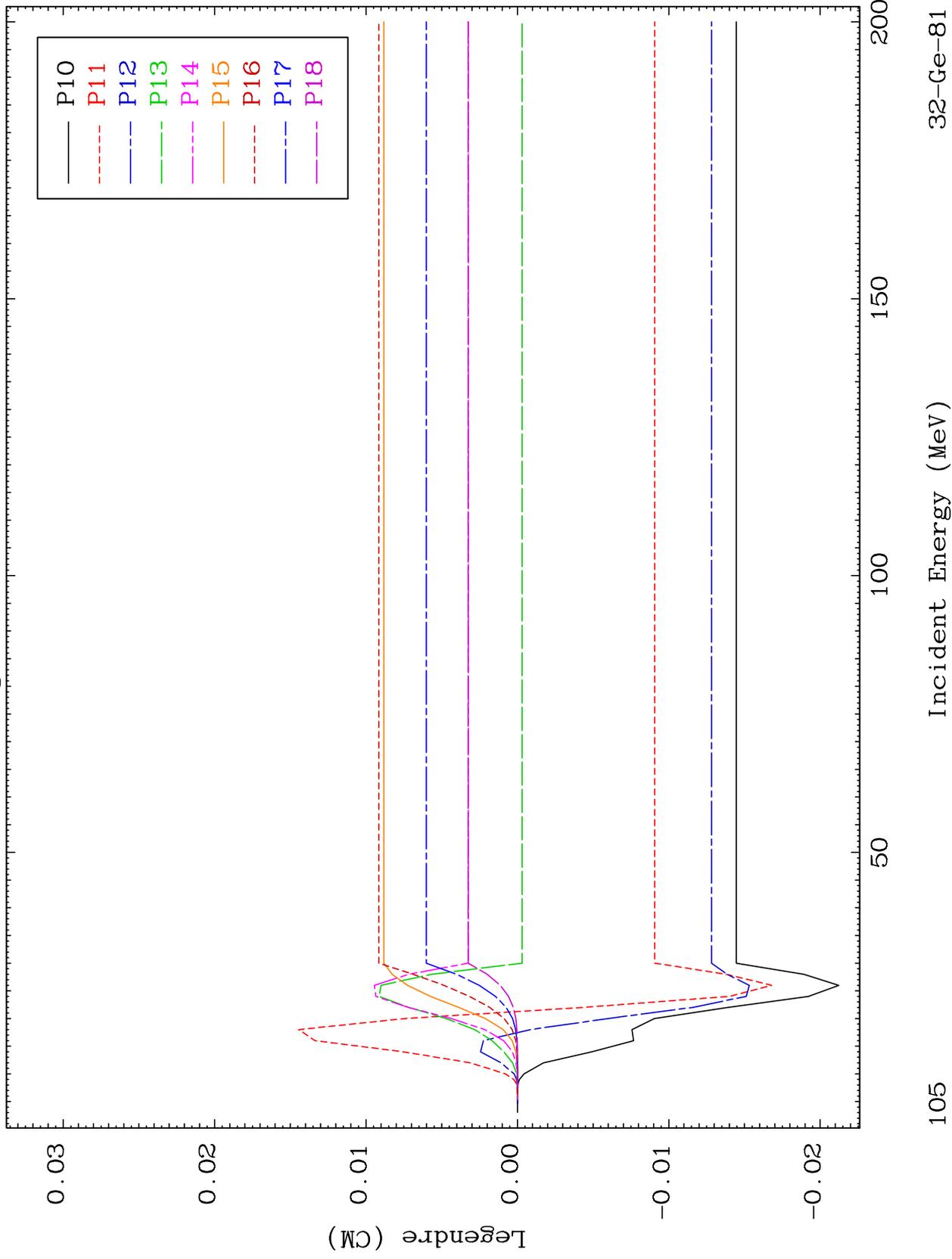
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 73 (n,n') Level  
Legendre Coefficients

32-Ge-81



32-Ge-81

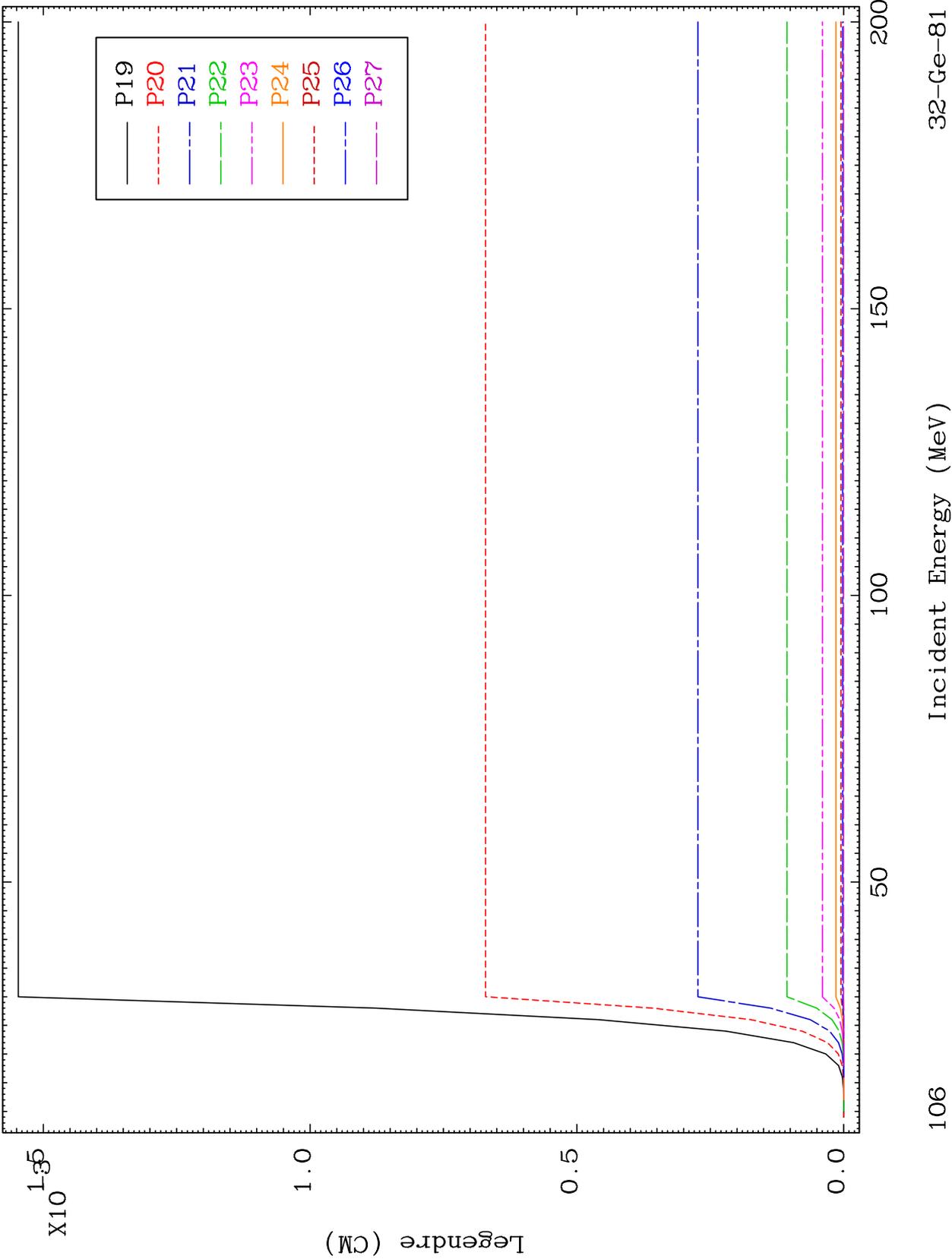
Incident Energy (MeV)

105

MAT 3258

MT= 73 (n,n') Level  
Legendre Coefficients

32-Ge-81



106

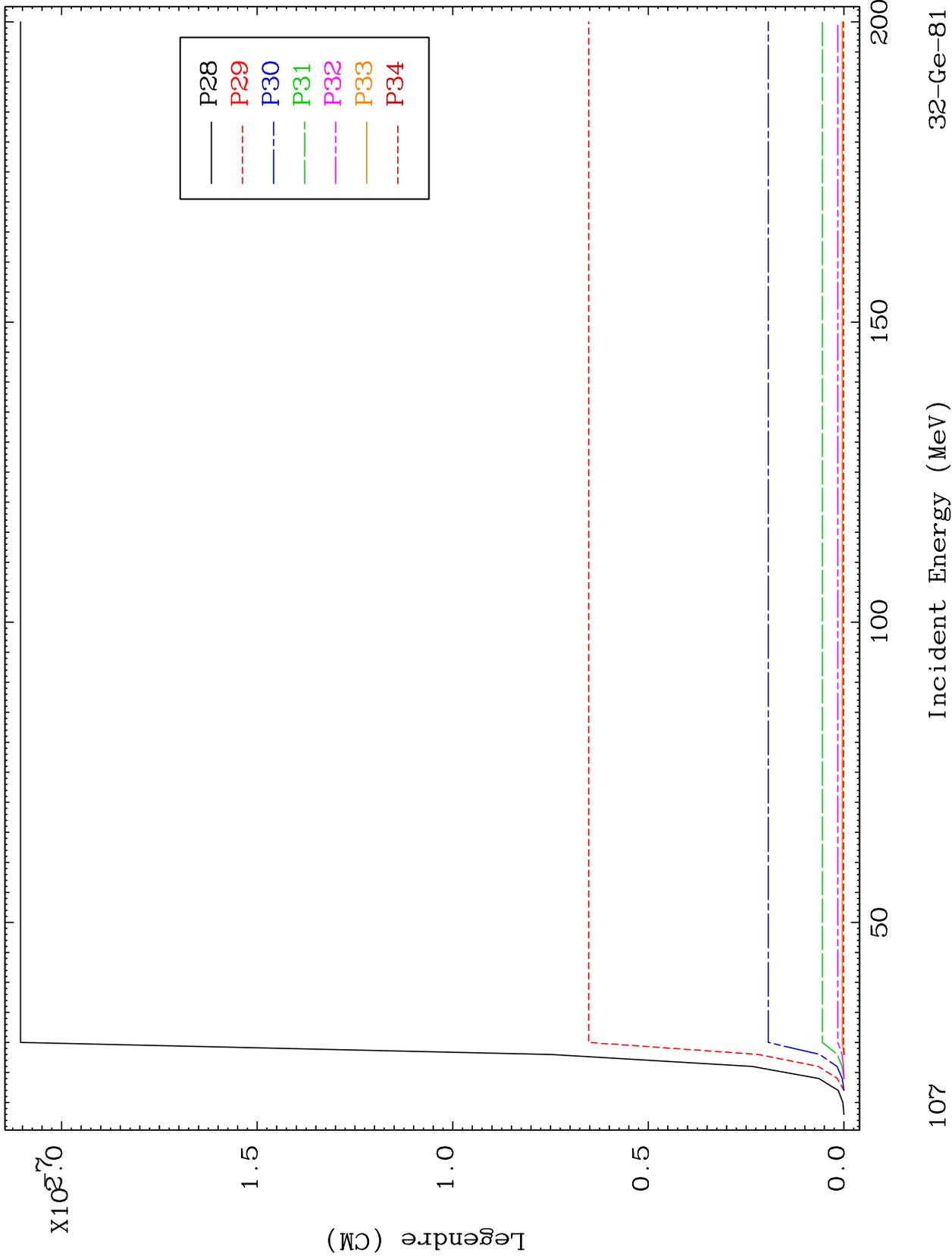
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 73 (n,n') Level  
Legendre Coefficients

32-Ge-81



107

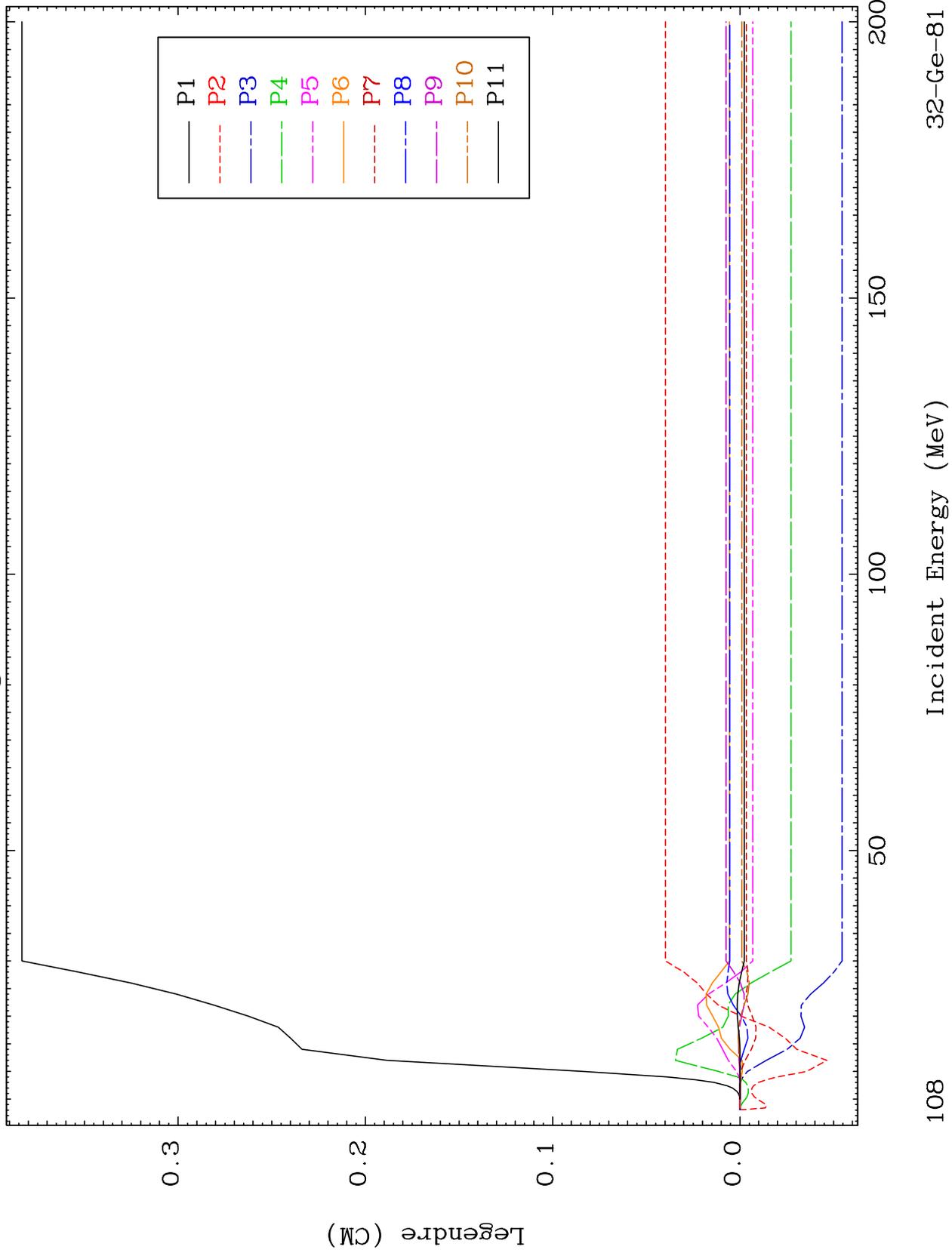
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 74 (n,n') Level  
Legendre Coefficients

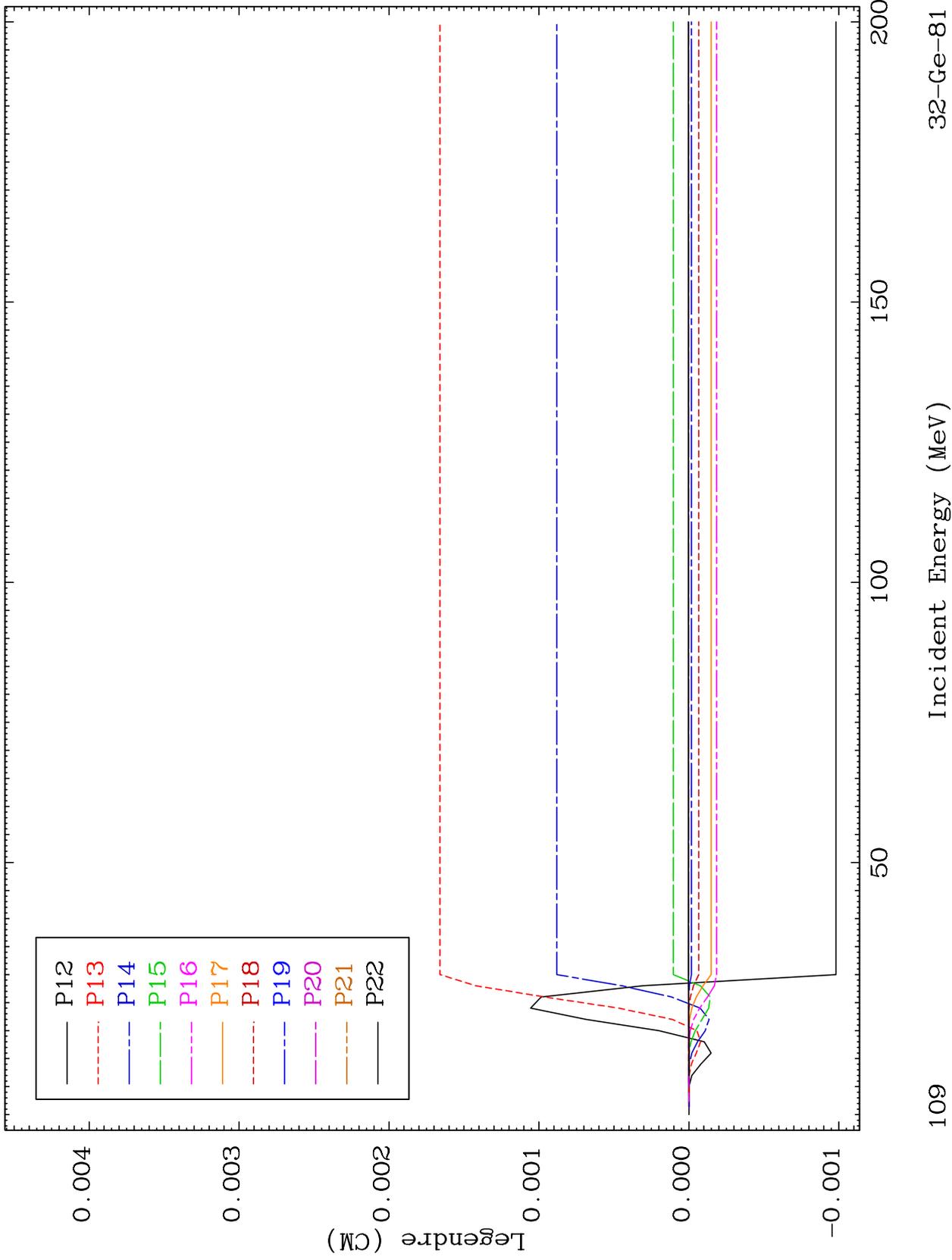
32-Ge-81



MAT 3258

MT= 74 (n,n') Level  
Legendre Coefficients

32-Ge-81

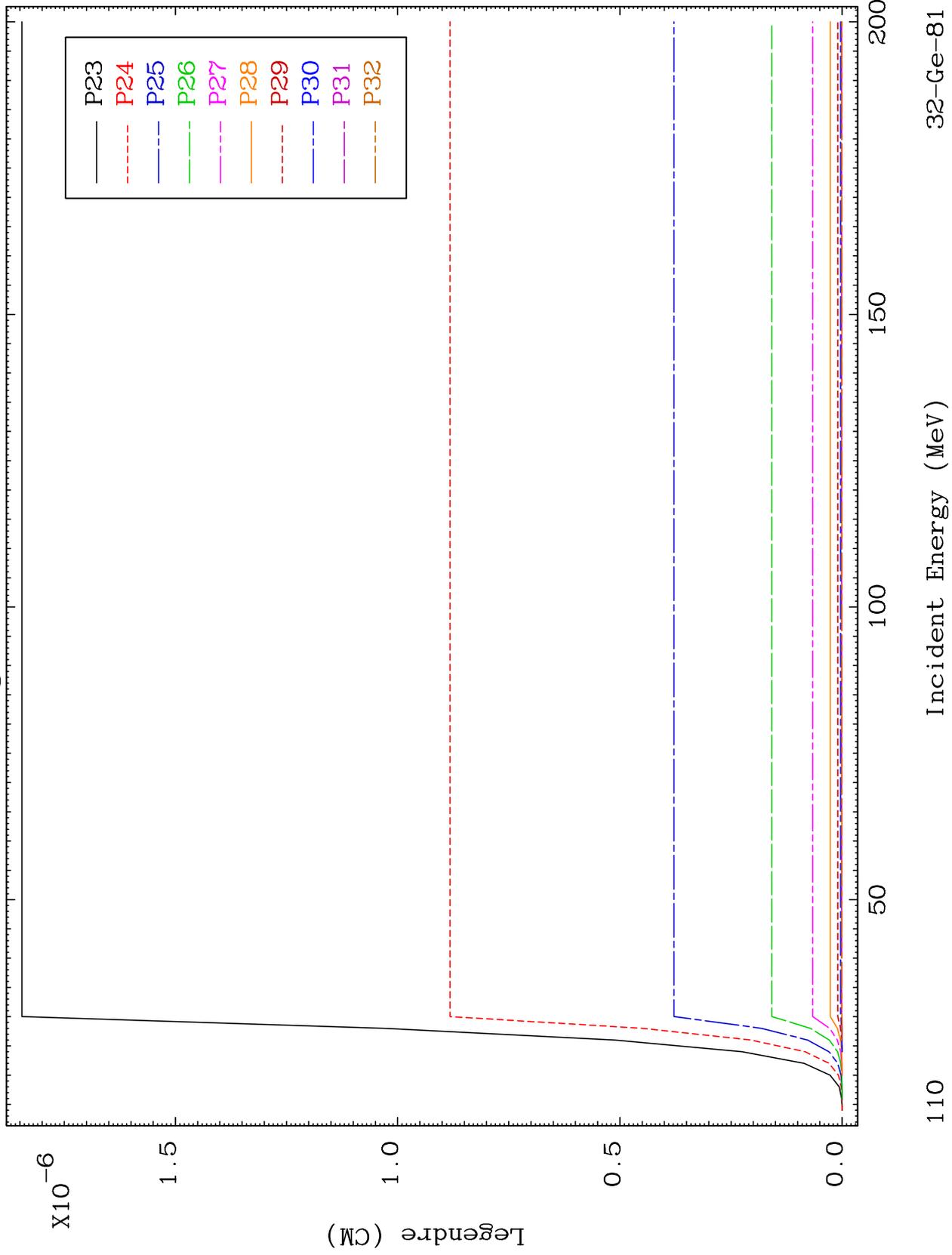


109

MAT 3258

MT= 74 (n,n') Level  
Legendre Coefficients

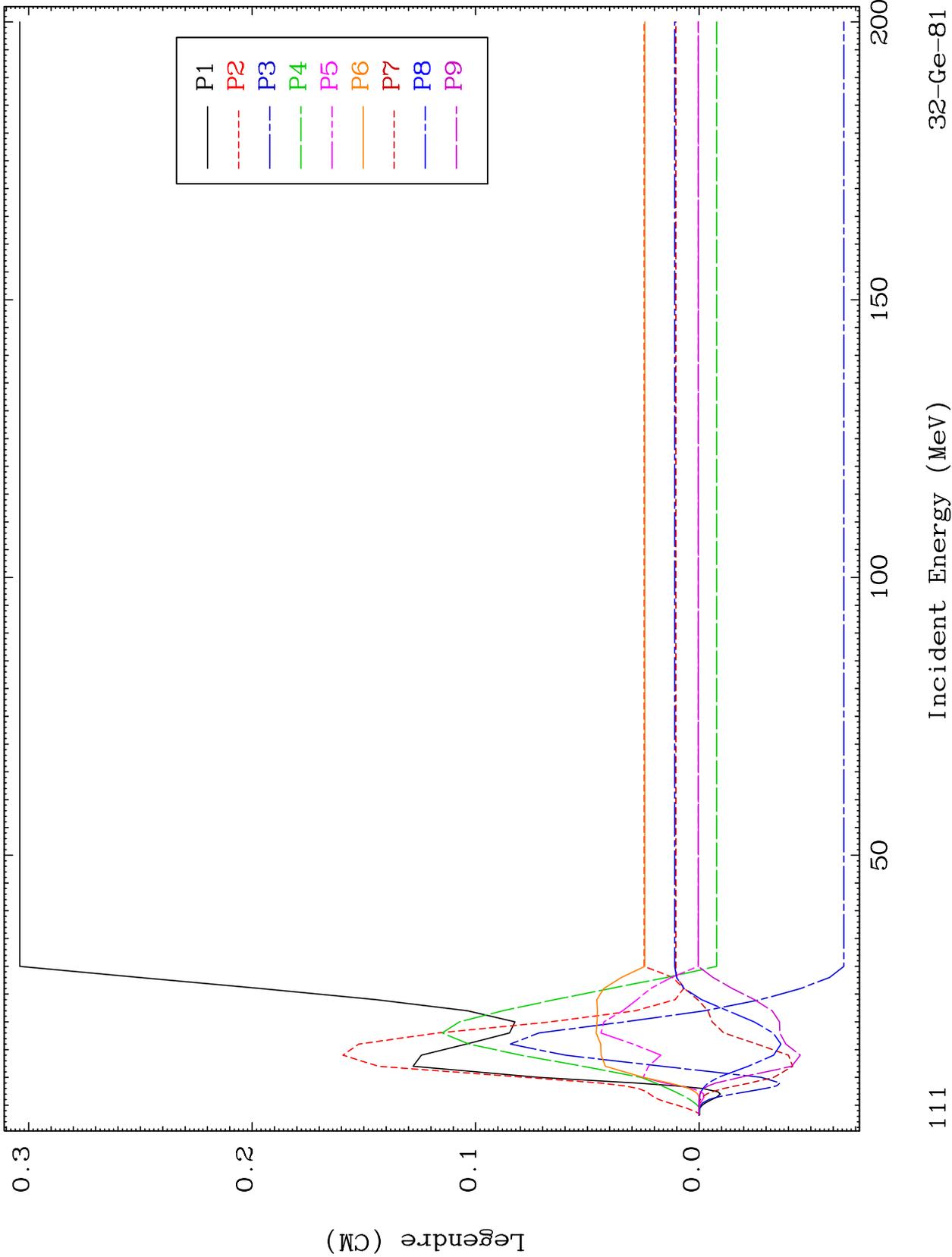
32-Ge-81



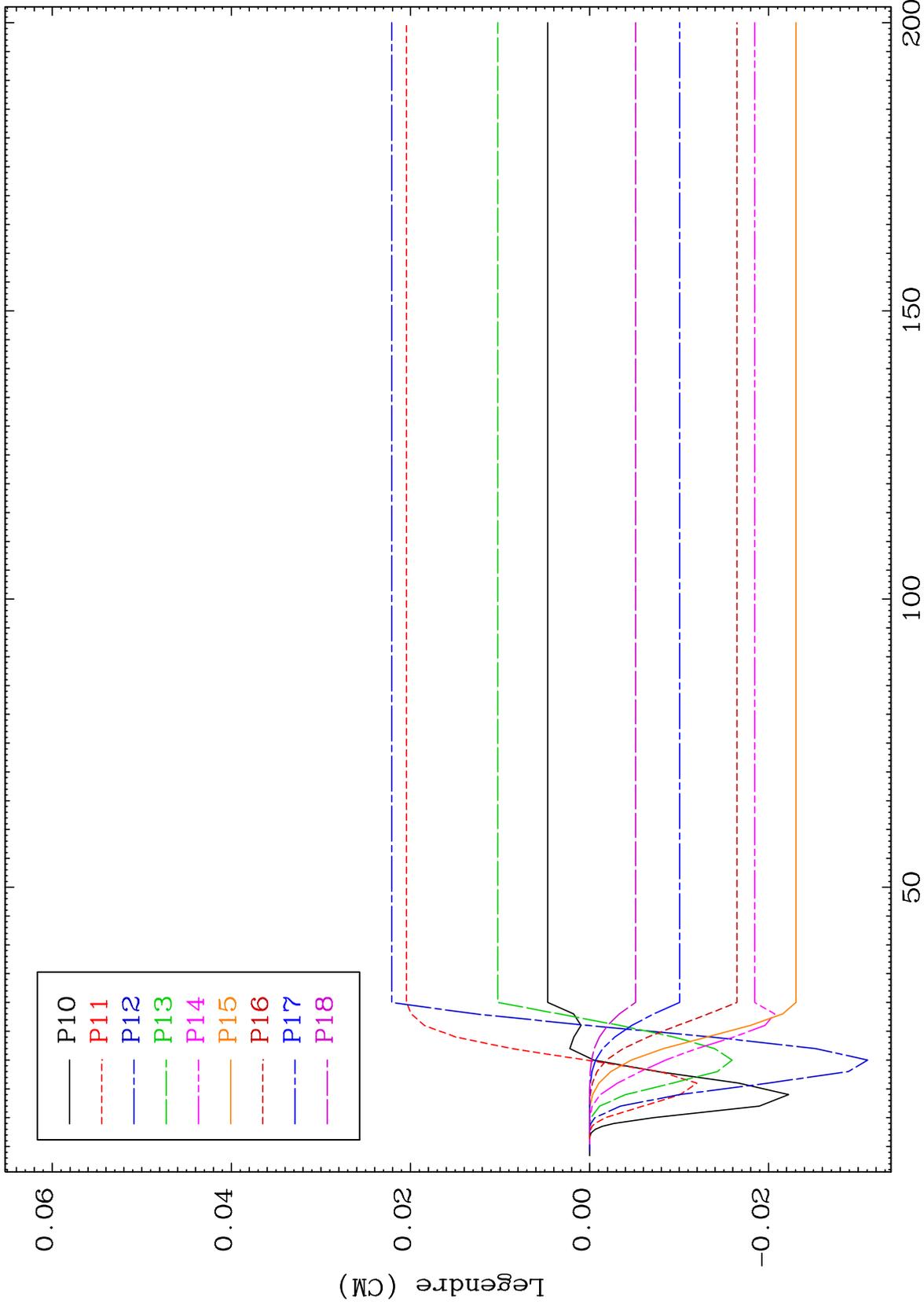
MAT 3258

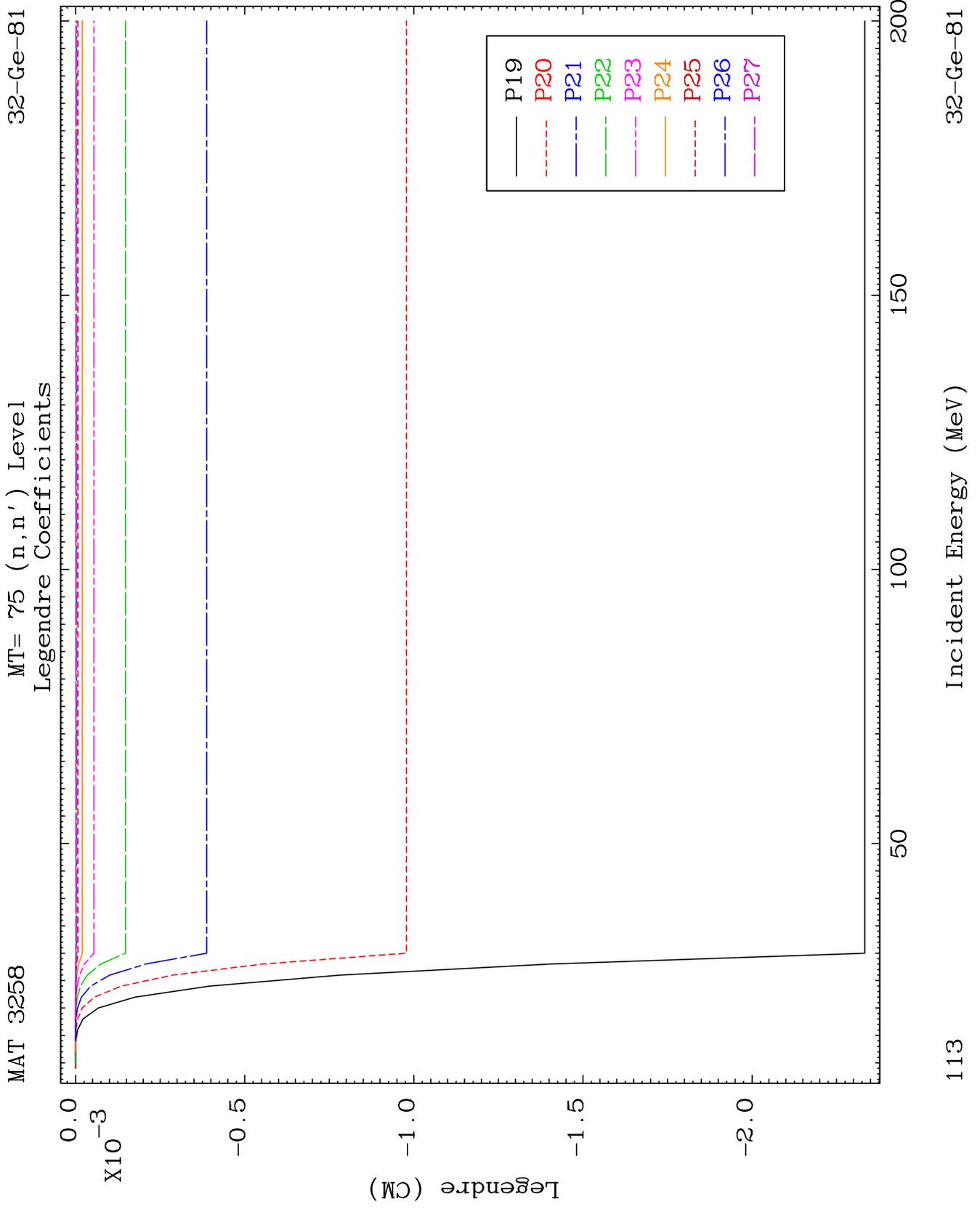
MT= 75 (n,n') Level  
Legendre Coefficients

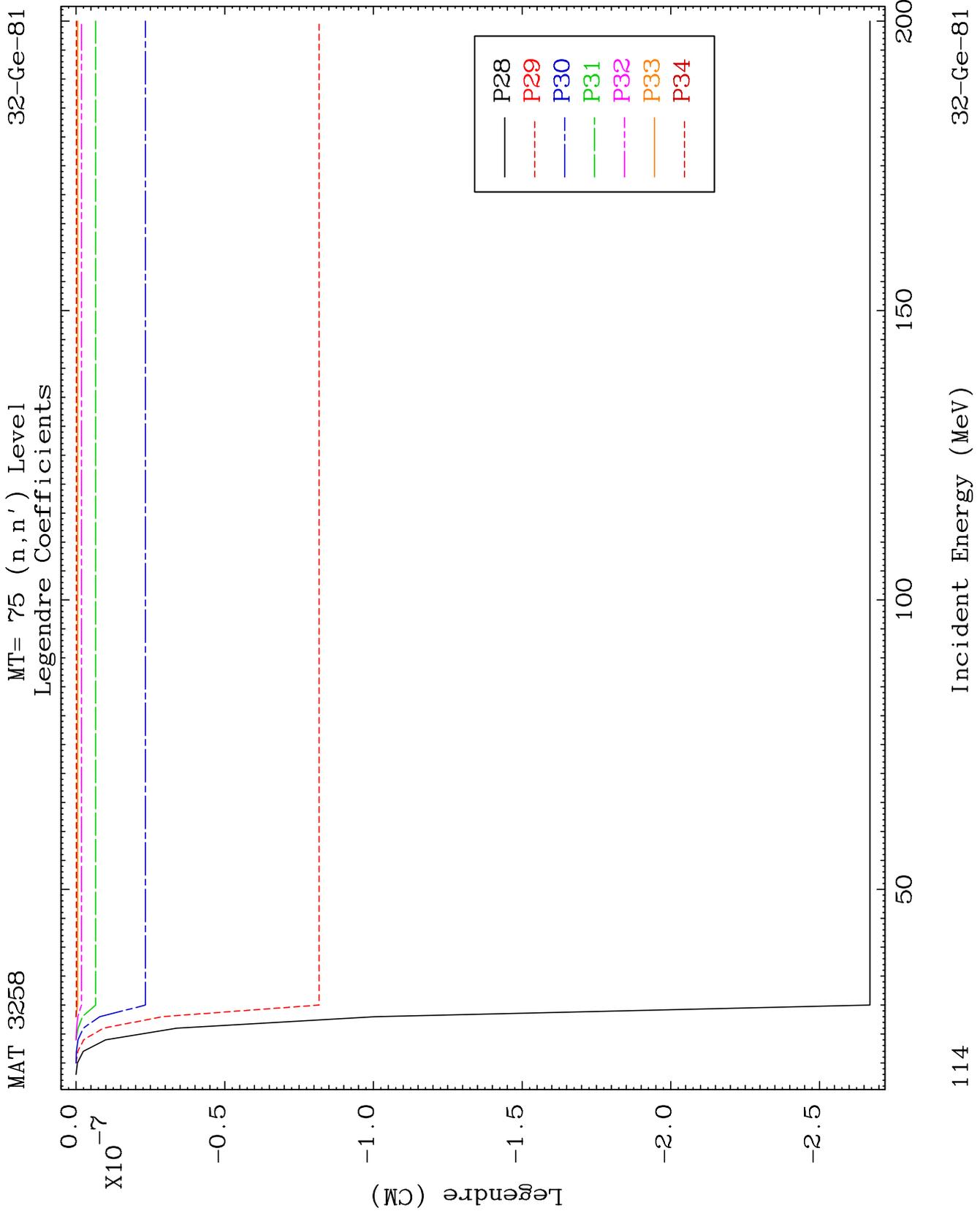
32-Ge-81



111





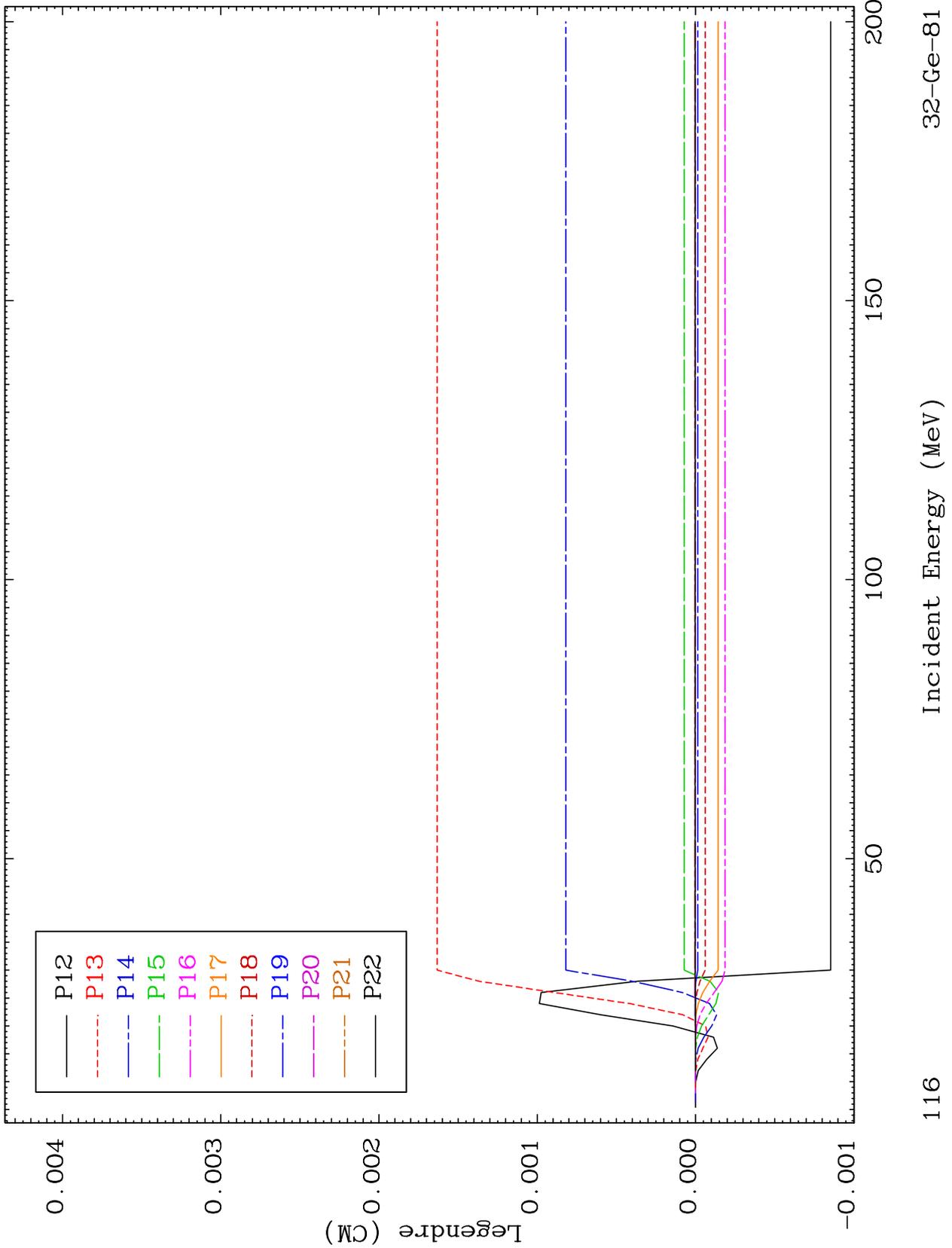




MAT 3258

MT= 76 (n,n') Level  
Legendre Coefficients

32-Ge-81



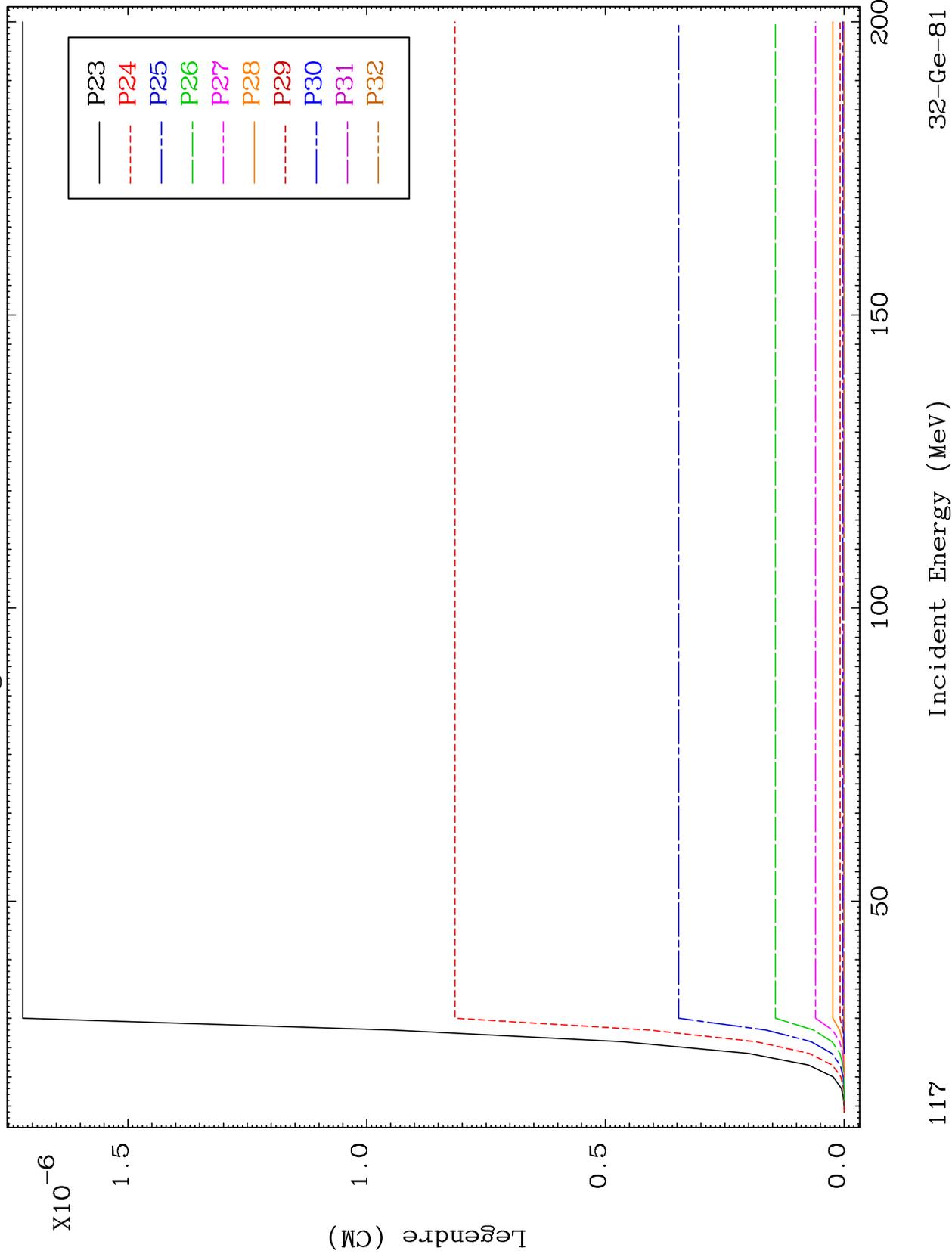
116

32-Ge-81

MAT 3258

MT= 76 (n,n') Level  
Legendre Coefficients

32-Ge-81



117

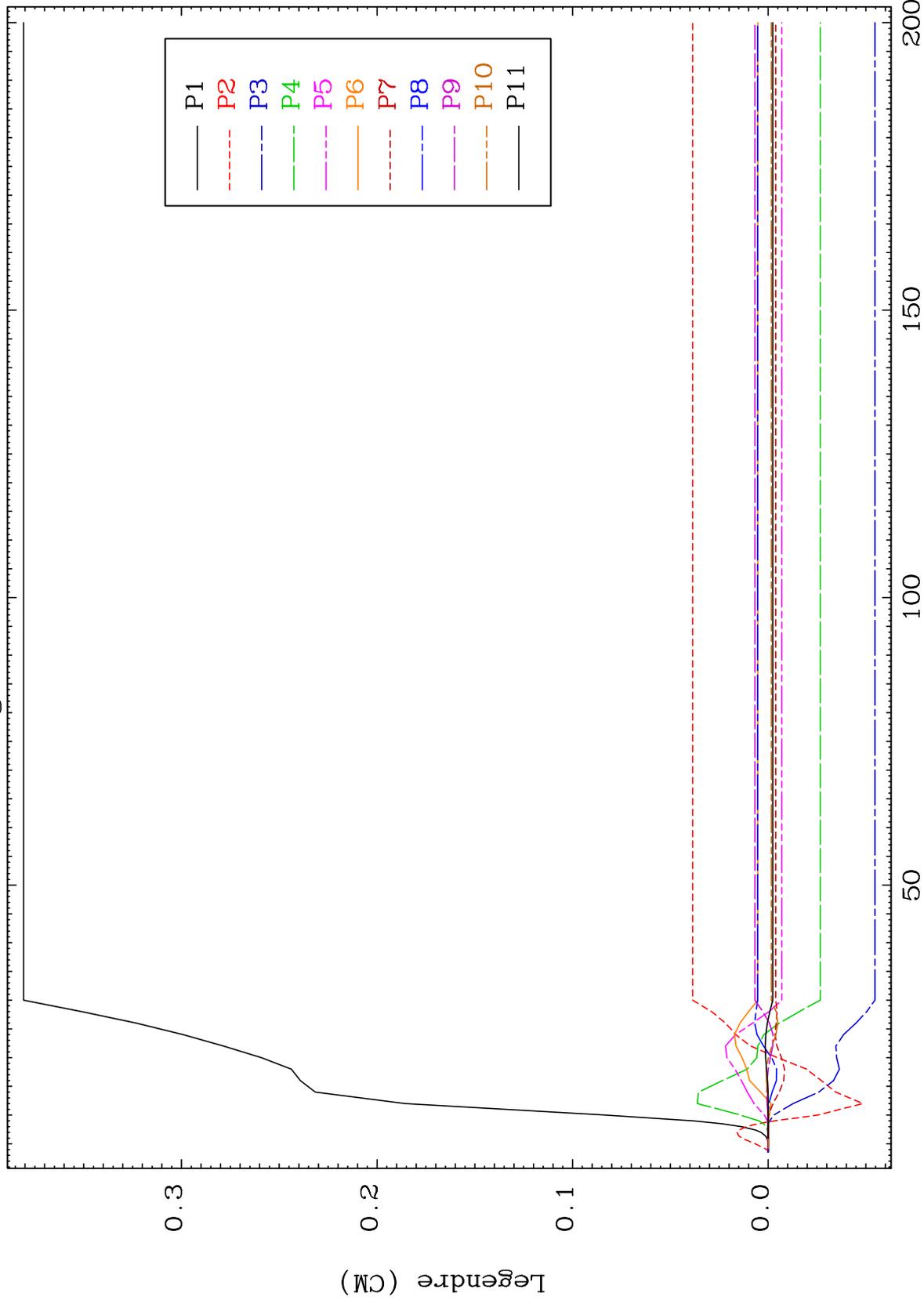
Incident Energy (MeV)

32-Ge-81

MAT 3258

MT= 77 (n,n') Level  
Legendre Coefficients

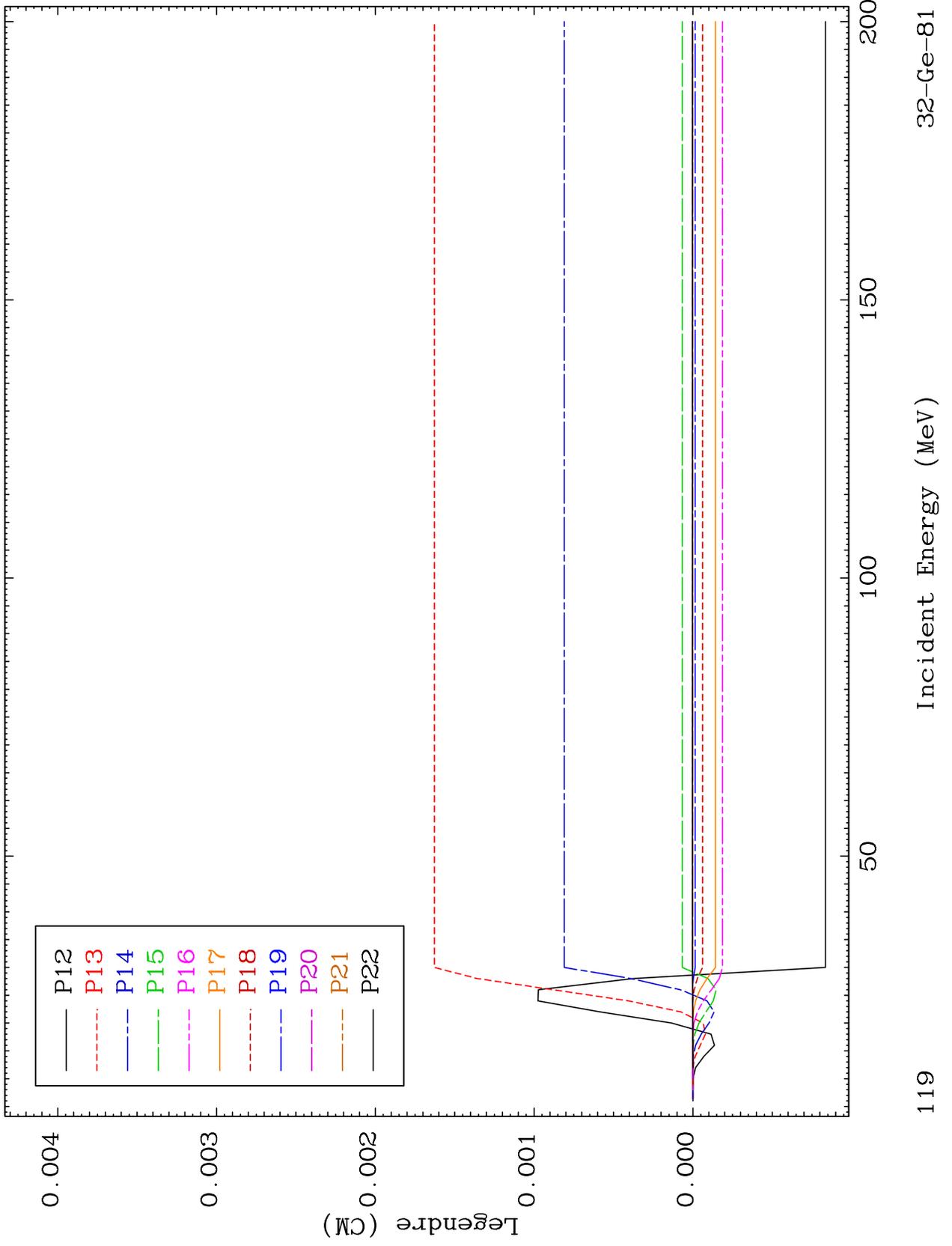
32-Ge-81



118

Incident Energy (MeV)

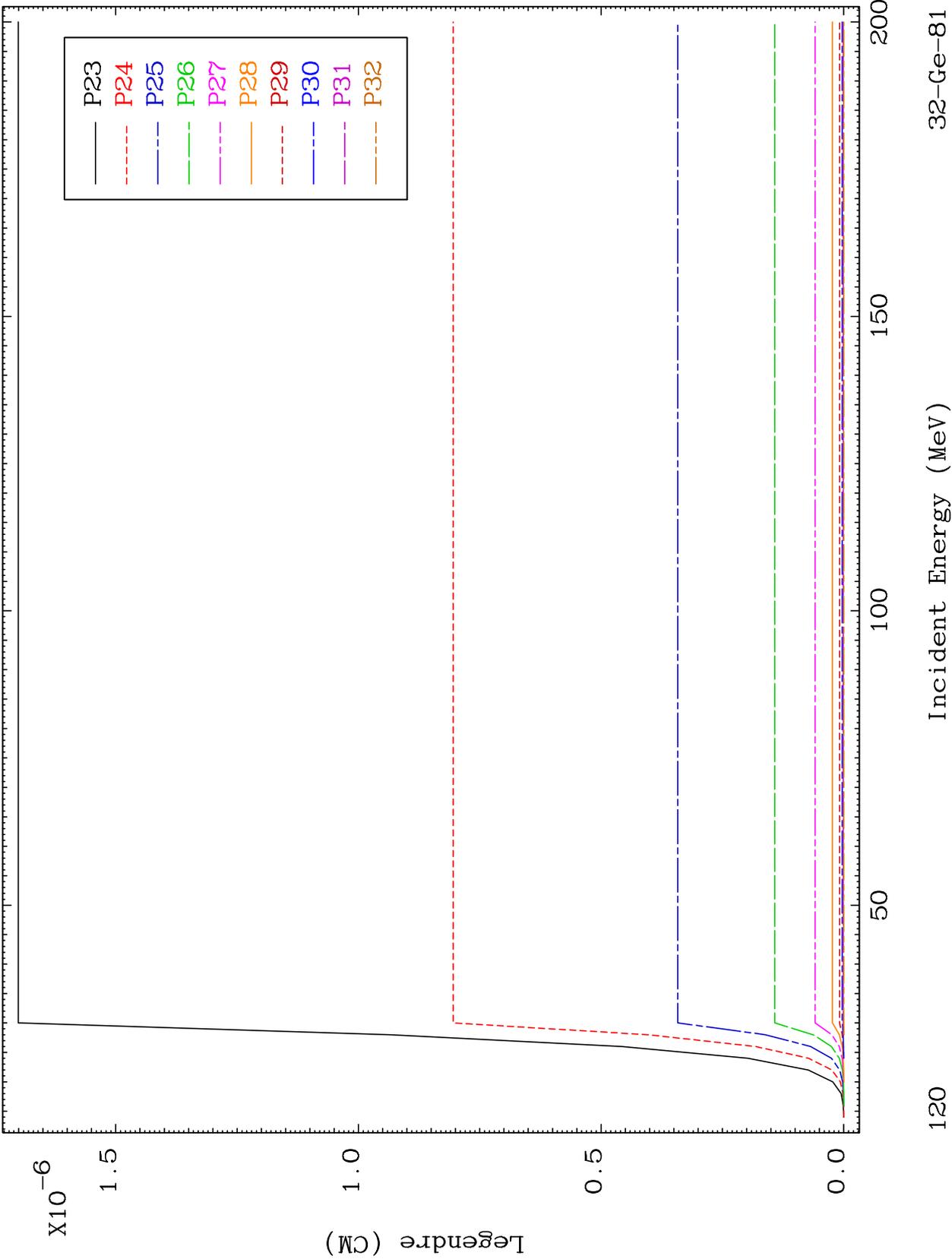
32-Ge-81



MAT 3258

MT= 77 (n,n') Level  
Legendre Coefficients

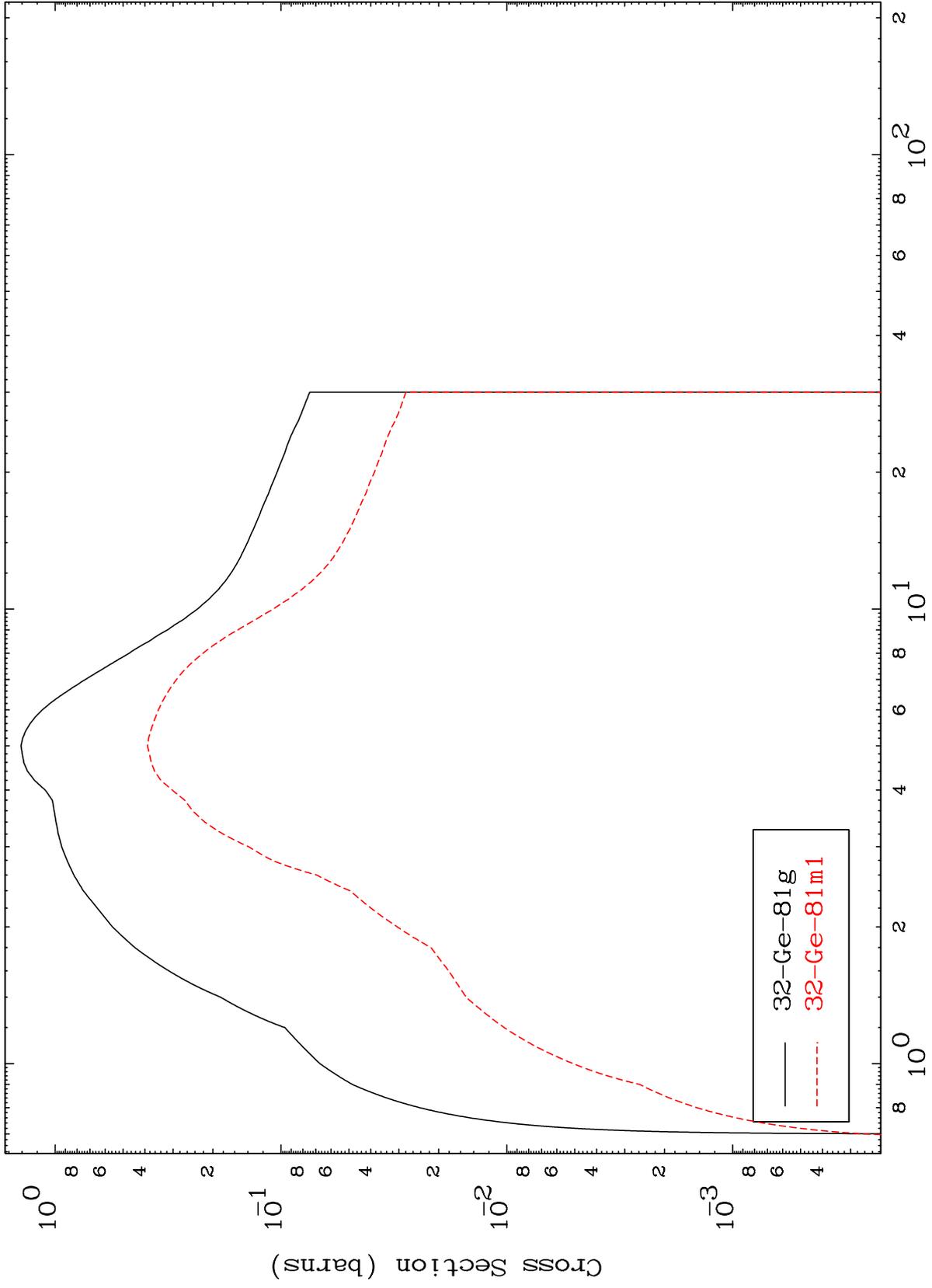
32-Ge-81



MAT 3258

32-Ge-81

Inelastic  
Radionuclide Production Cross Section



— 32-Ge-81 g  
- - - 32-Ge-81 m1

32-Ge-81

Incident Energy (MeV)

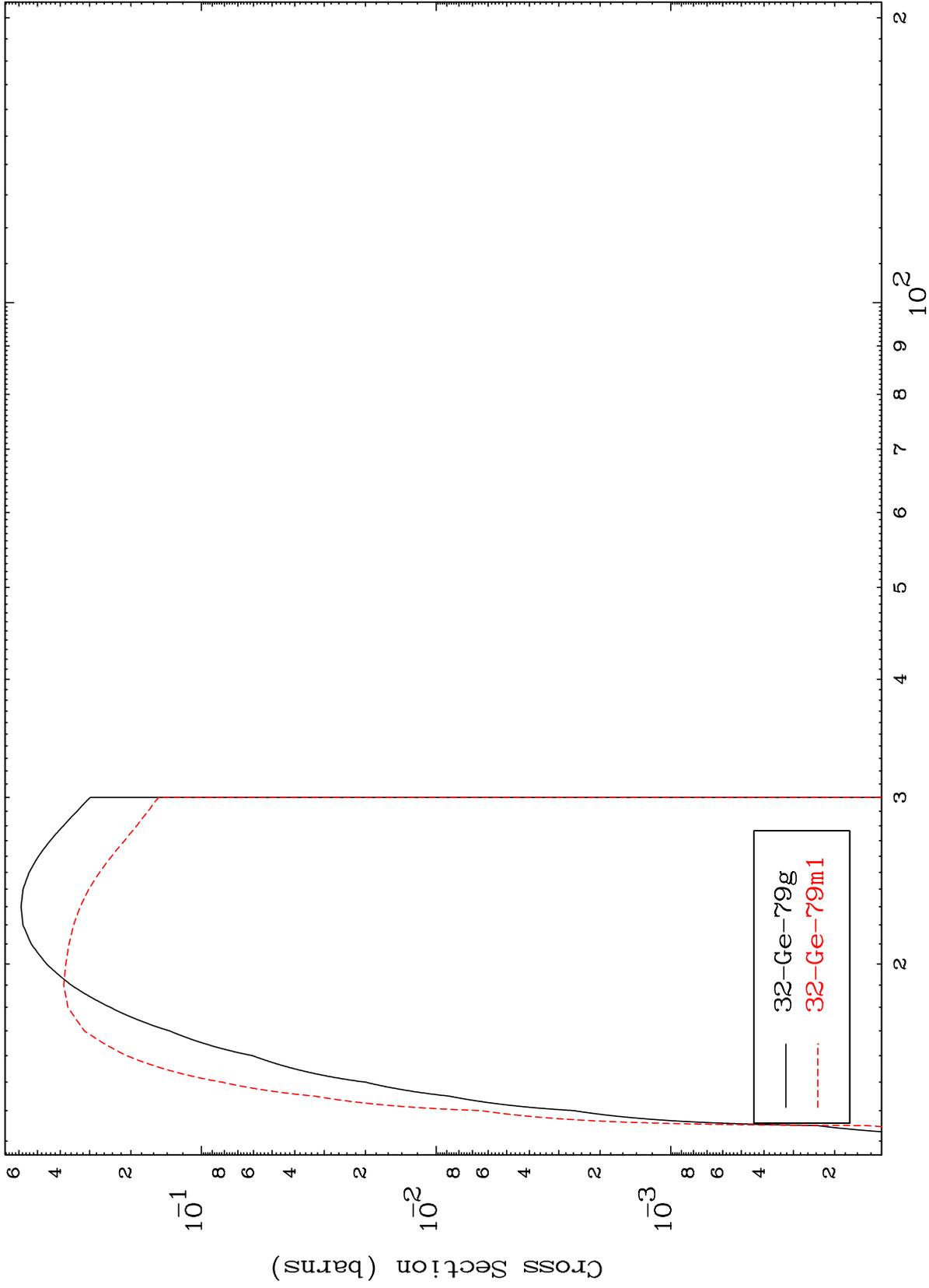
121

MAT 3258

(n,3n)

<sup>32</sup>Ge-81

Radionuclide Production Cross Section



122

Incident Energy (MeV)

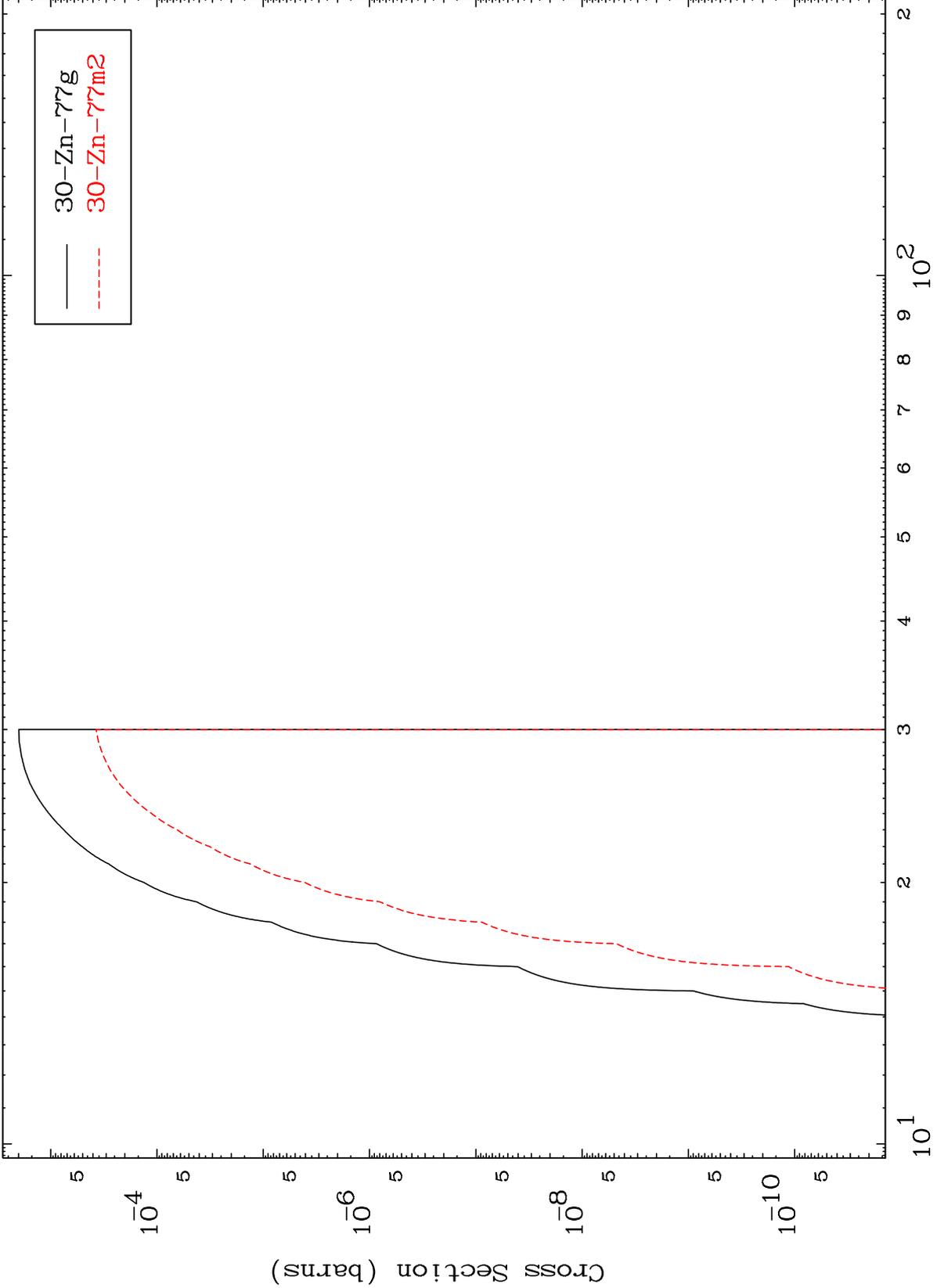
<sup>32</sup>Ge-81

MAT 3258

$(n, n') \alpha$

$^{32}\text{Ge-81}$

Radionuclide Production Cross Section



123

Incident Energy (MeV)

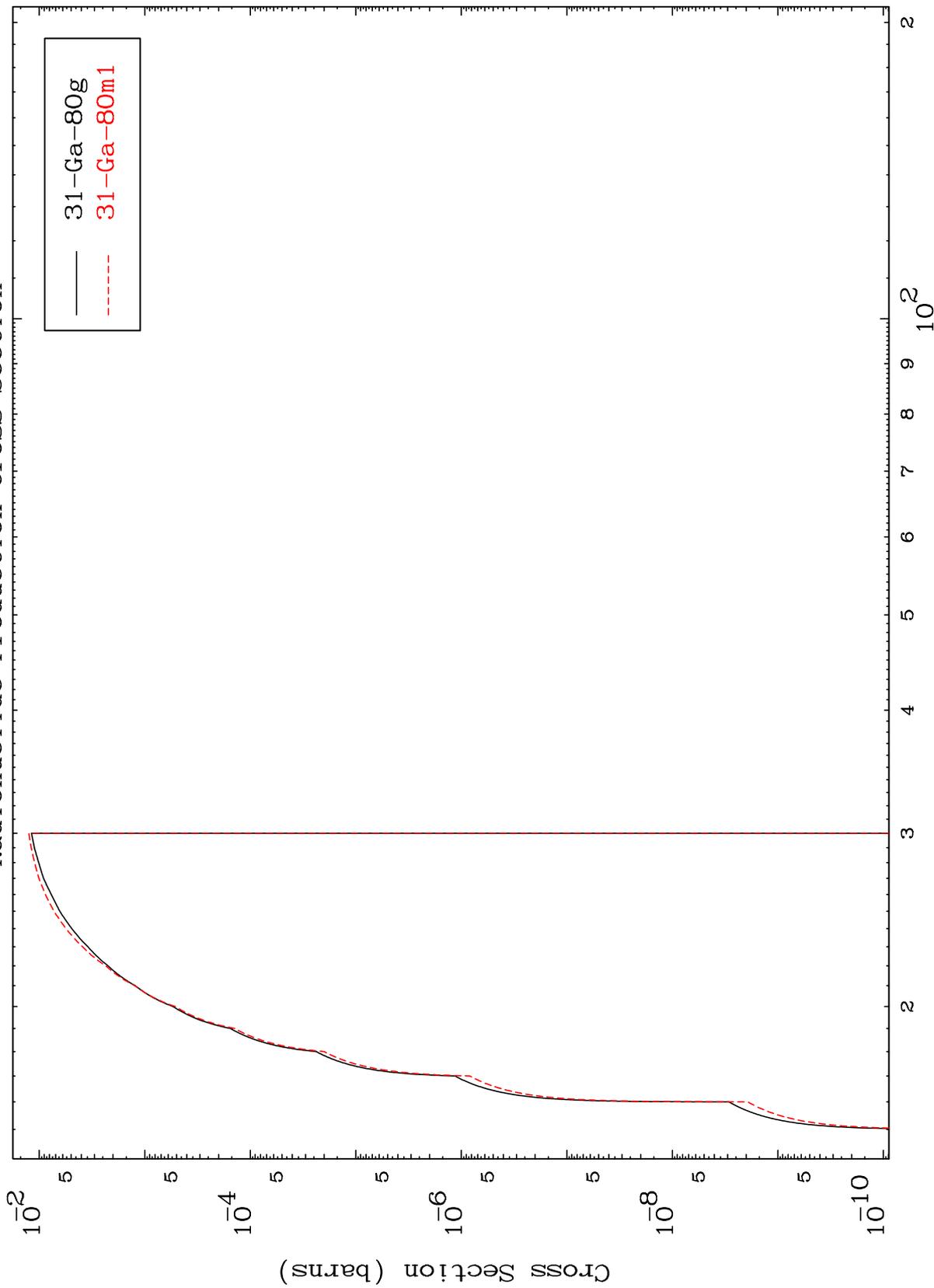
$^{32}\text{Ge-81}$

MAT 3258

(n,n') p

32-Ge-81

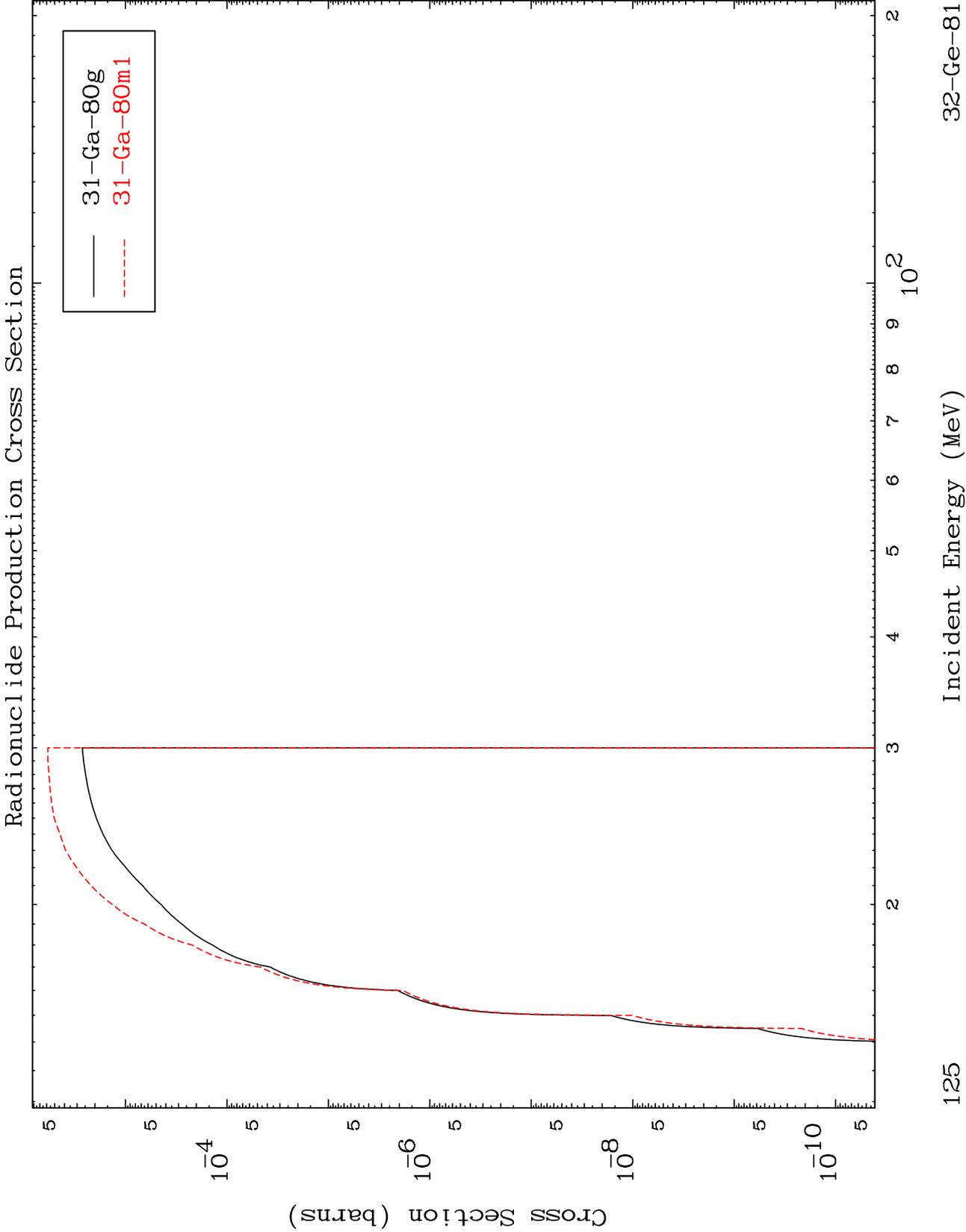
Radionuclide Production Cross Section



124

Incident Energy (MeV)

32-Ge-81



Radionuclide Production Cross Section

