

Program EVALPLOT  
(Version 2015-2)

by

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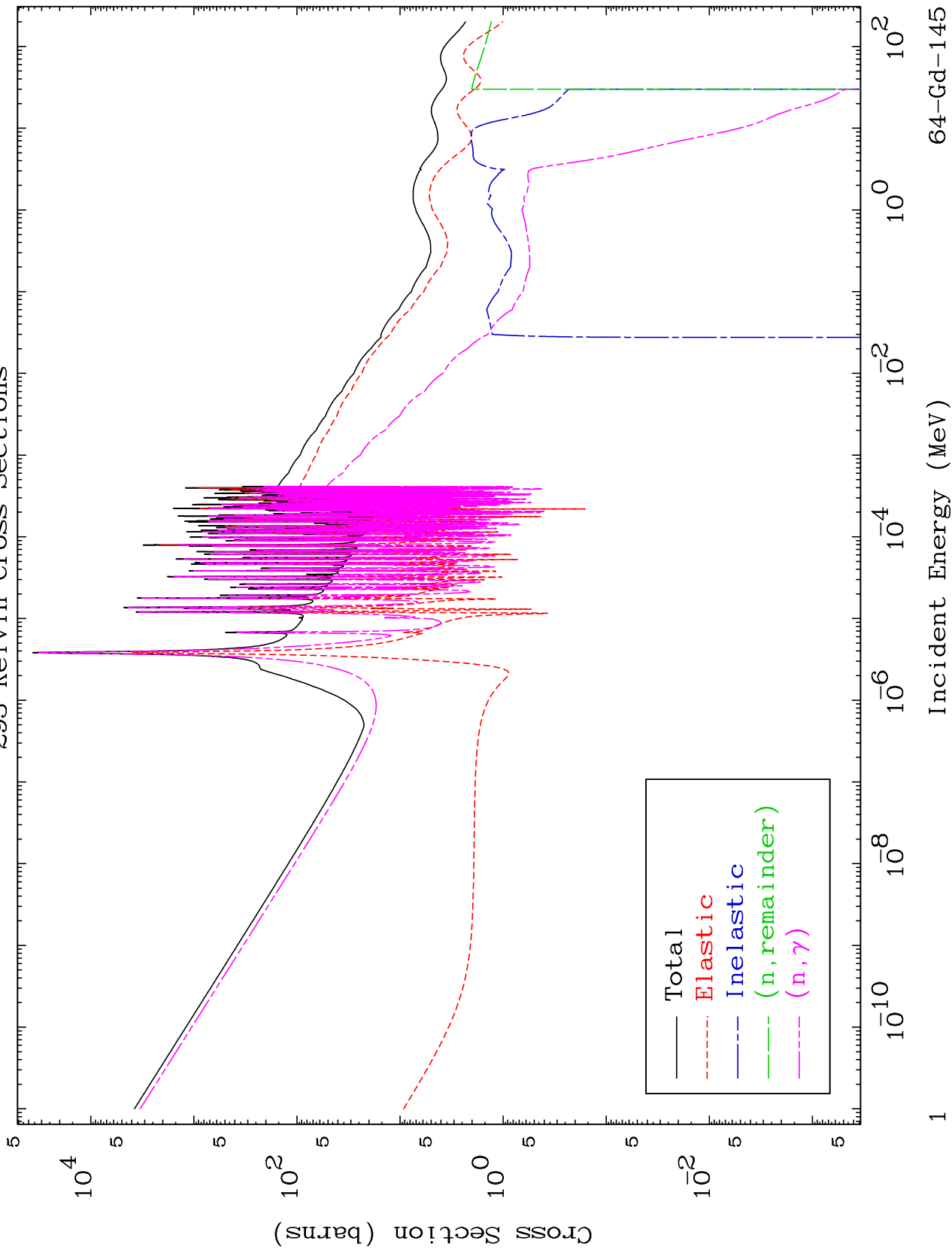
Press Mouse Button to Start

MAT 6404

Major

293 Kelvin Cross Sections

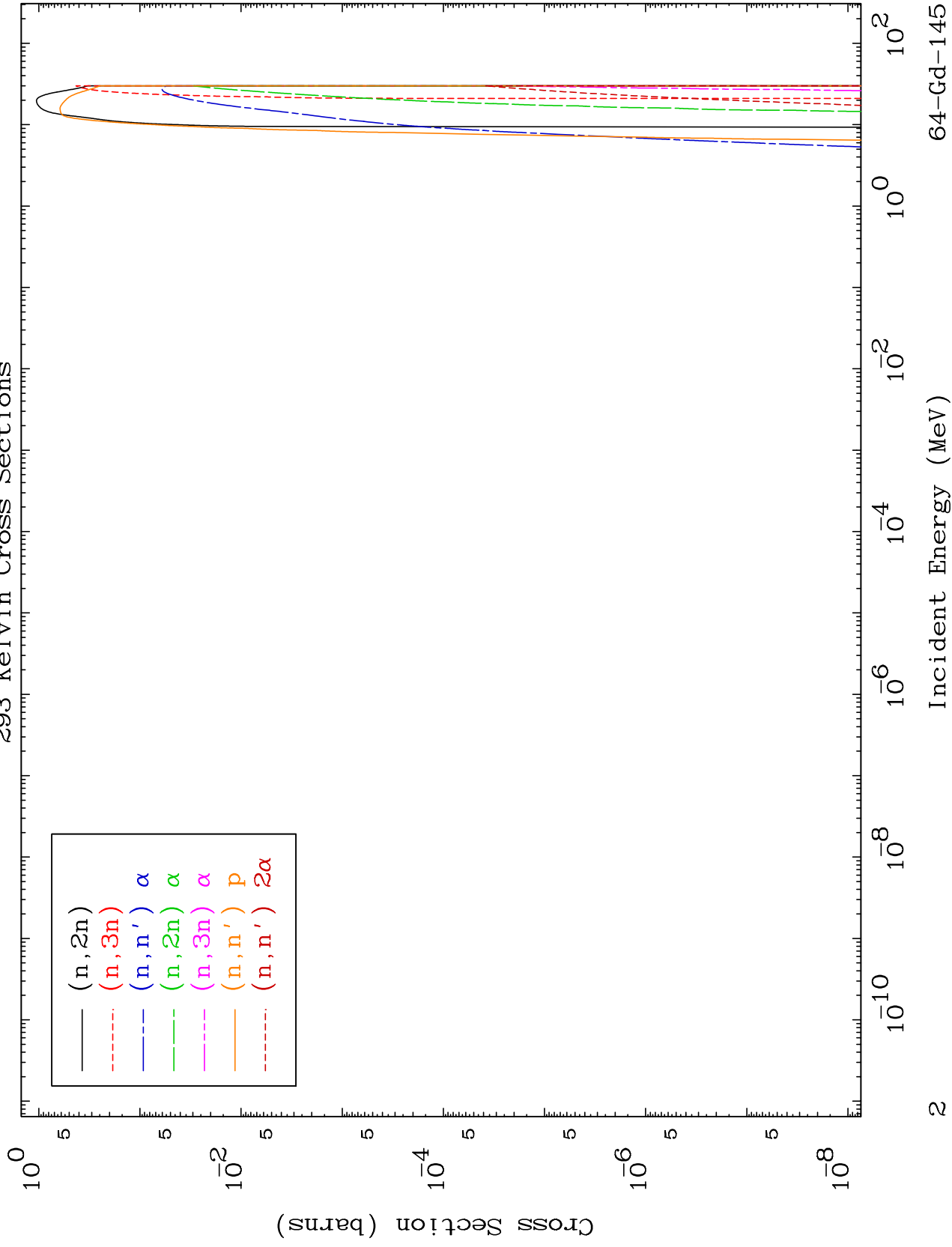
64-Gd-145



MAT 6404

Neutron Production  
293 Kelvin Cross Sections

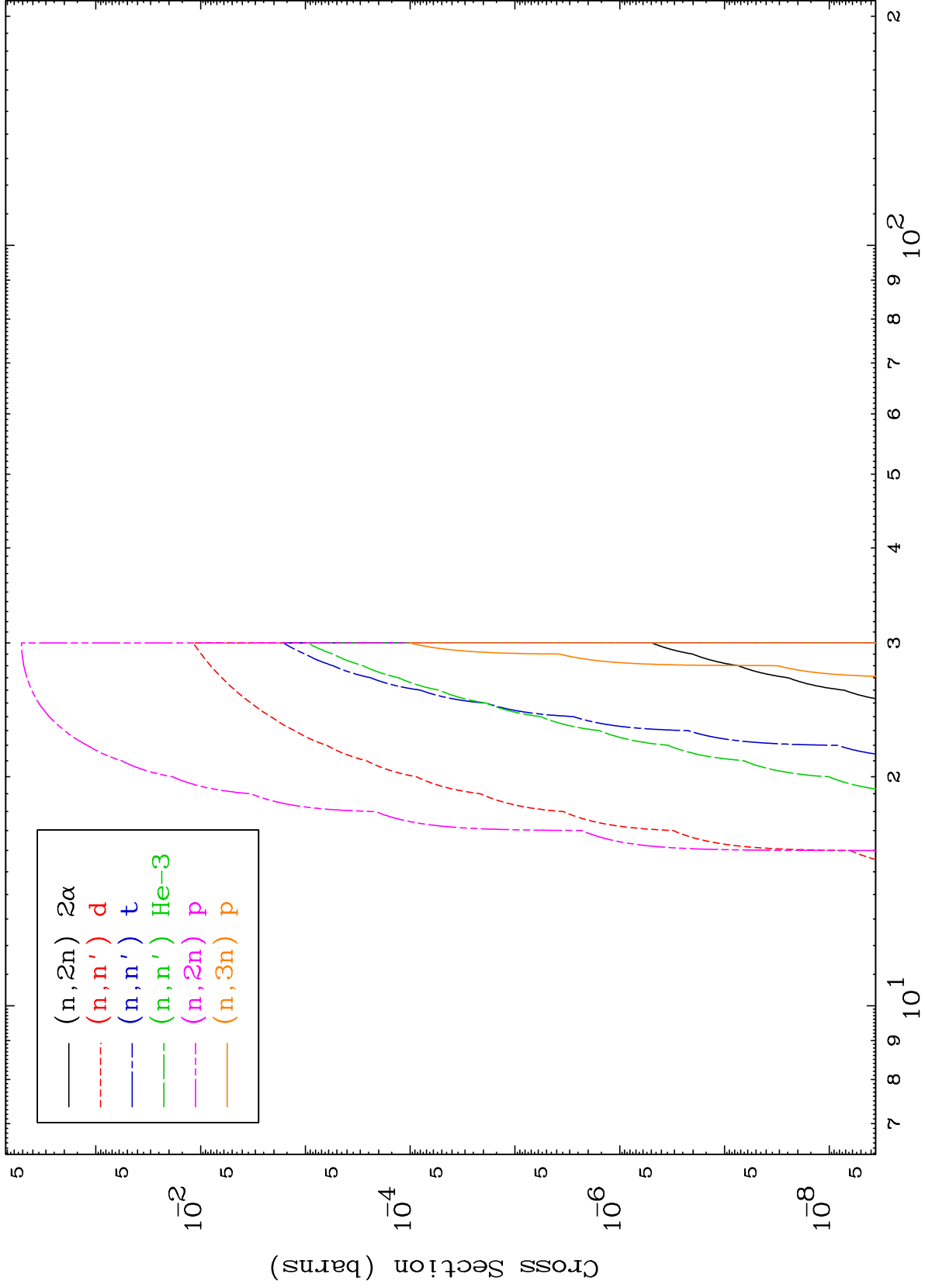
64-Gd-145



MAT 6404

Neutron Production  
293 Kelvin Cross Sections

64-Gd-145



3

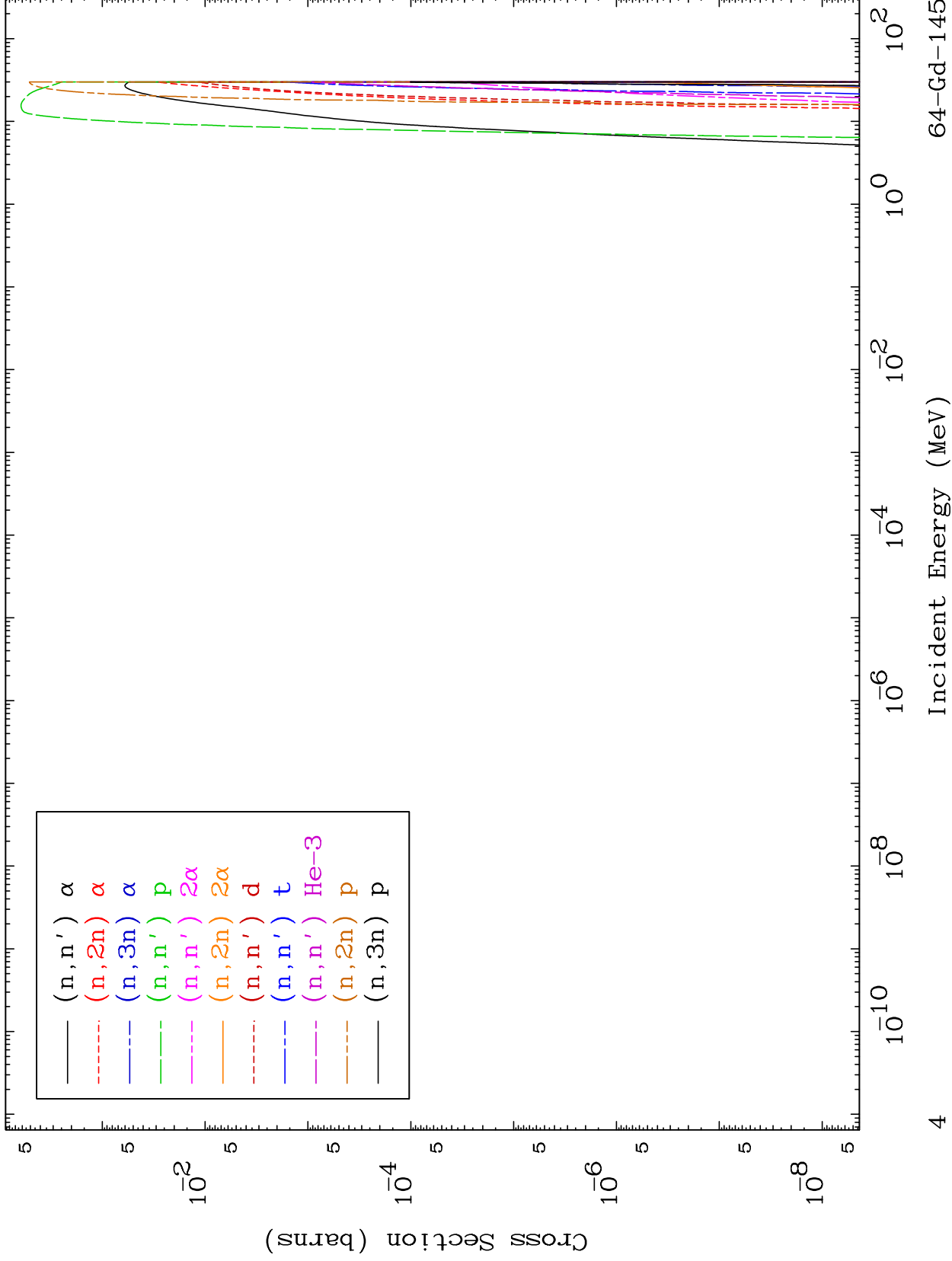
Incident Energy (MeV)

64-Gd-145

MAT 6404

Charged Particle  
293 Kelvin Cross Sections

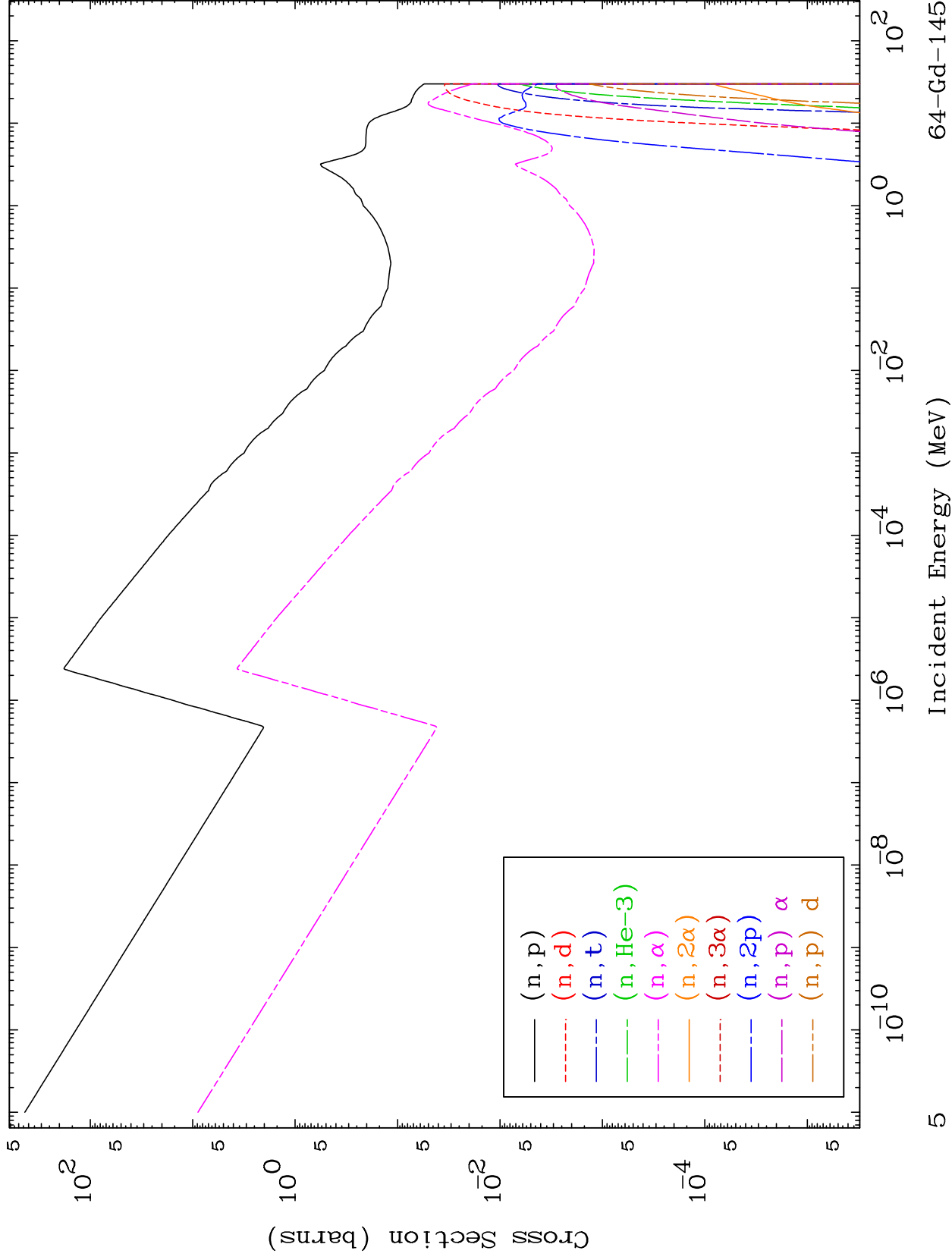
64-Gd-145



MAT 6404

Charged Particle  
293 Kelvin Cross Sections

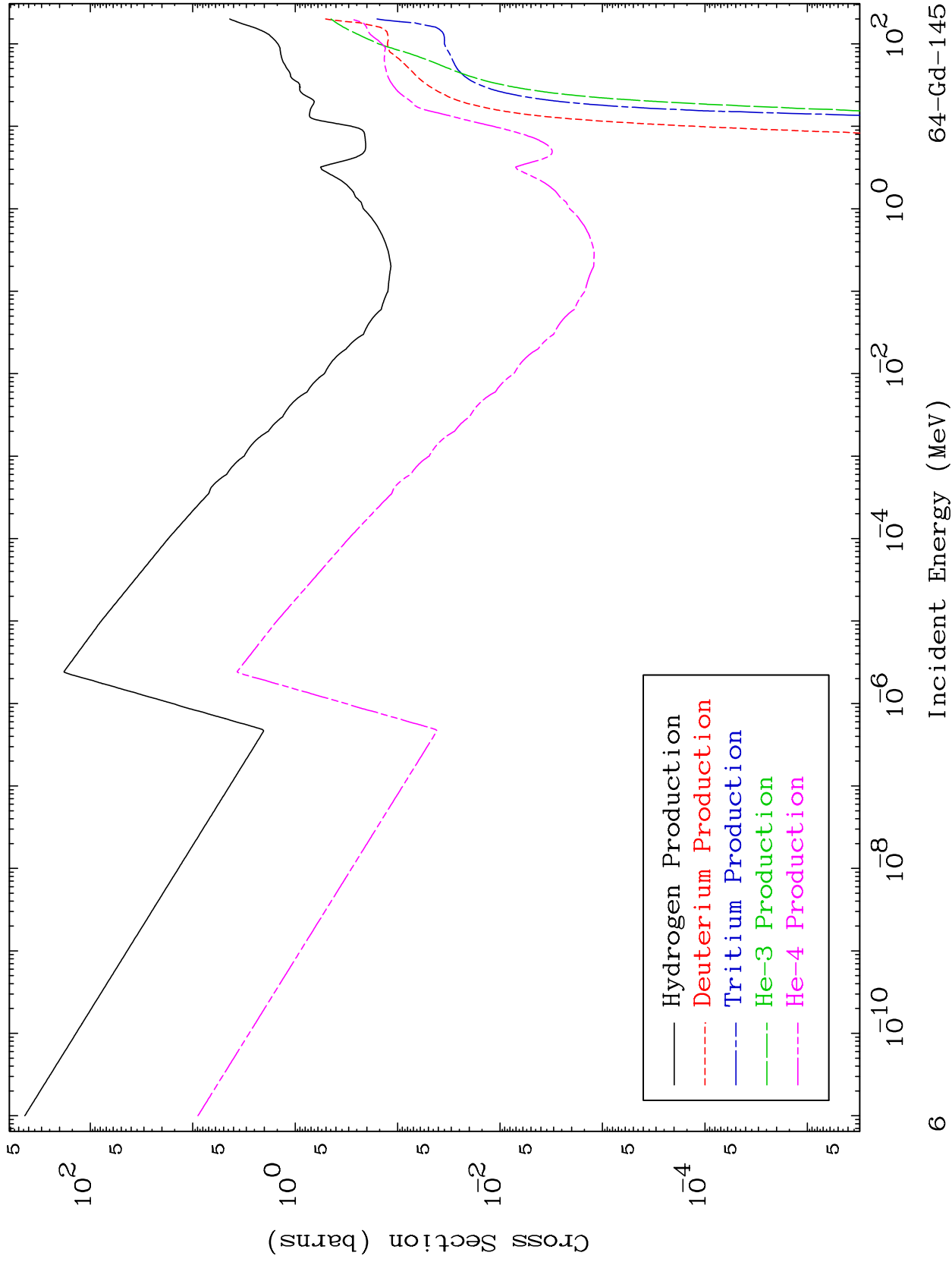
64-Gd-145



MAT 6404

Particle Production  
293 Kelvin Cross Sections

64-Gd-145

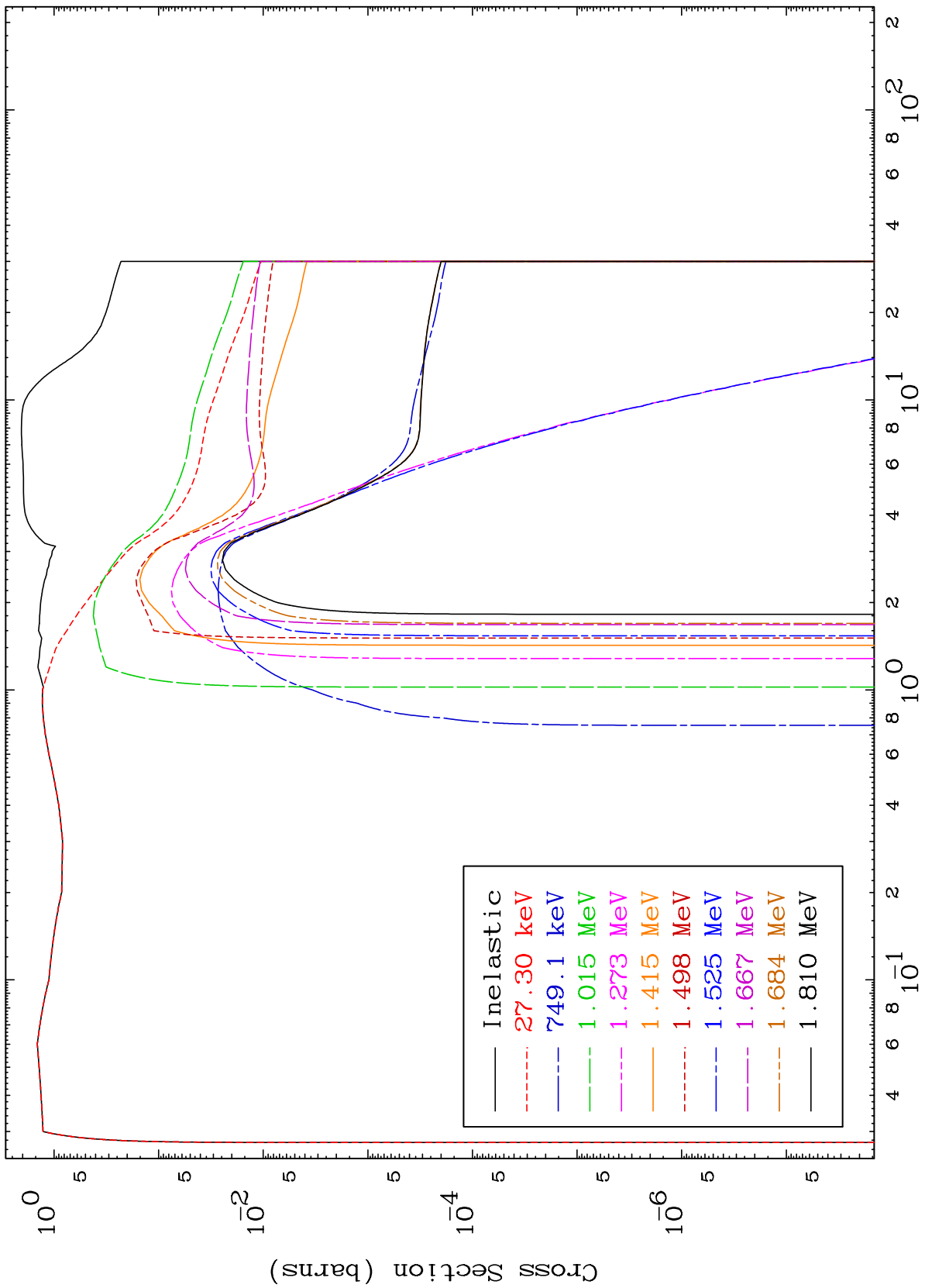


MAT 6404

(n,n') Level

64-Gd-145

293 Kelvin Cross Sections

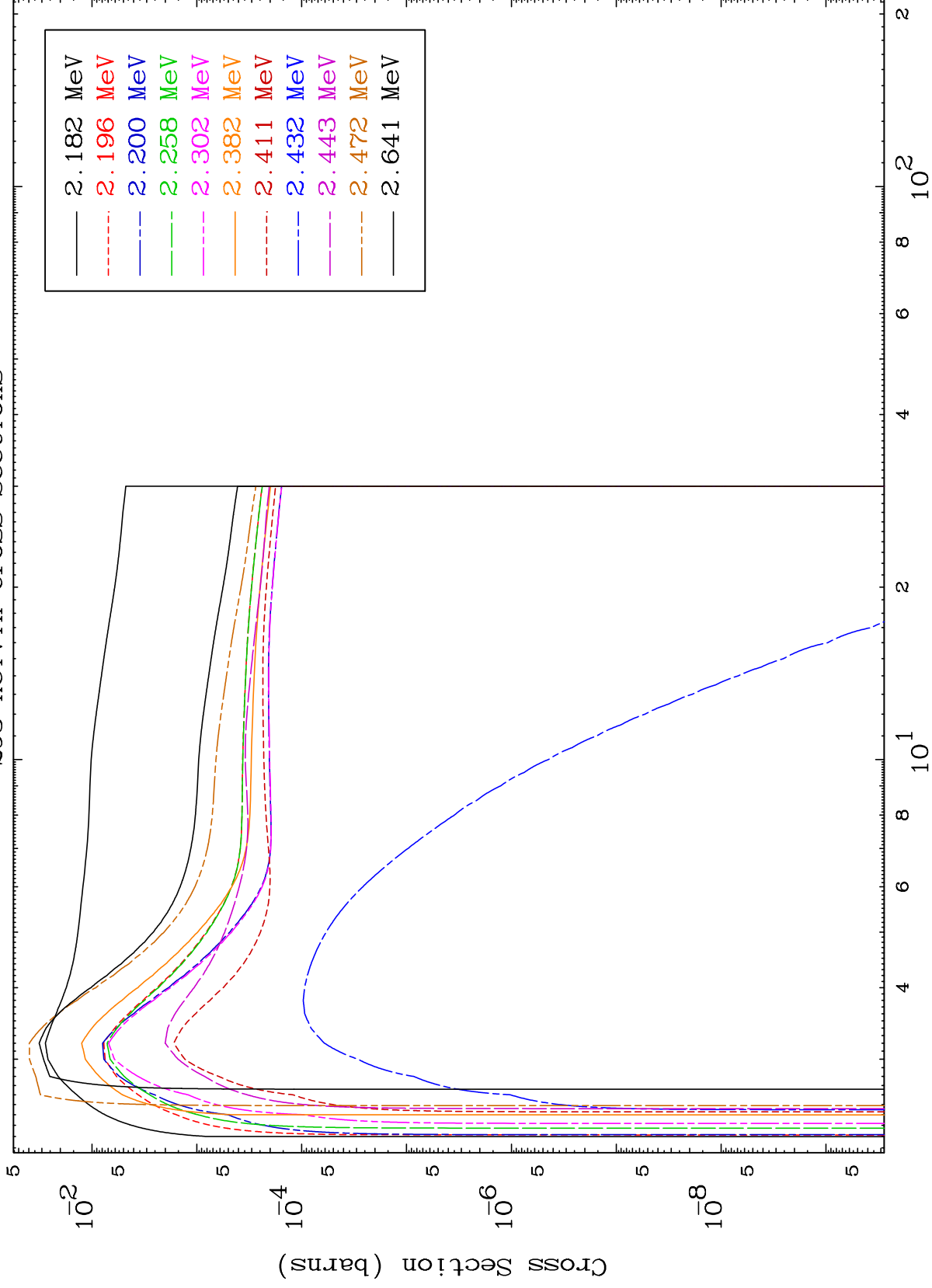




MAT 6404

(n,n') Level  
293 Kelvin Cross Sections

64-Gd-145



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Incident Energy (MeV)

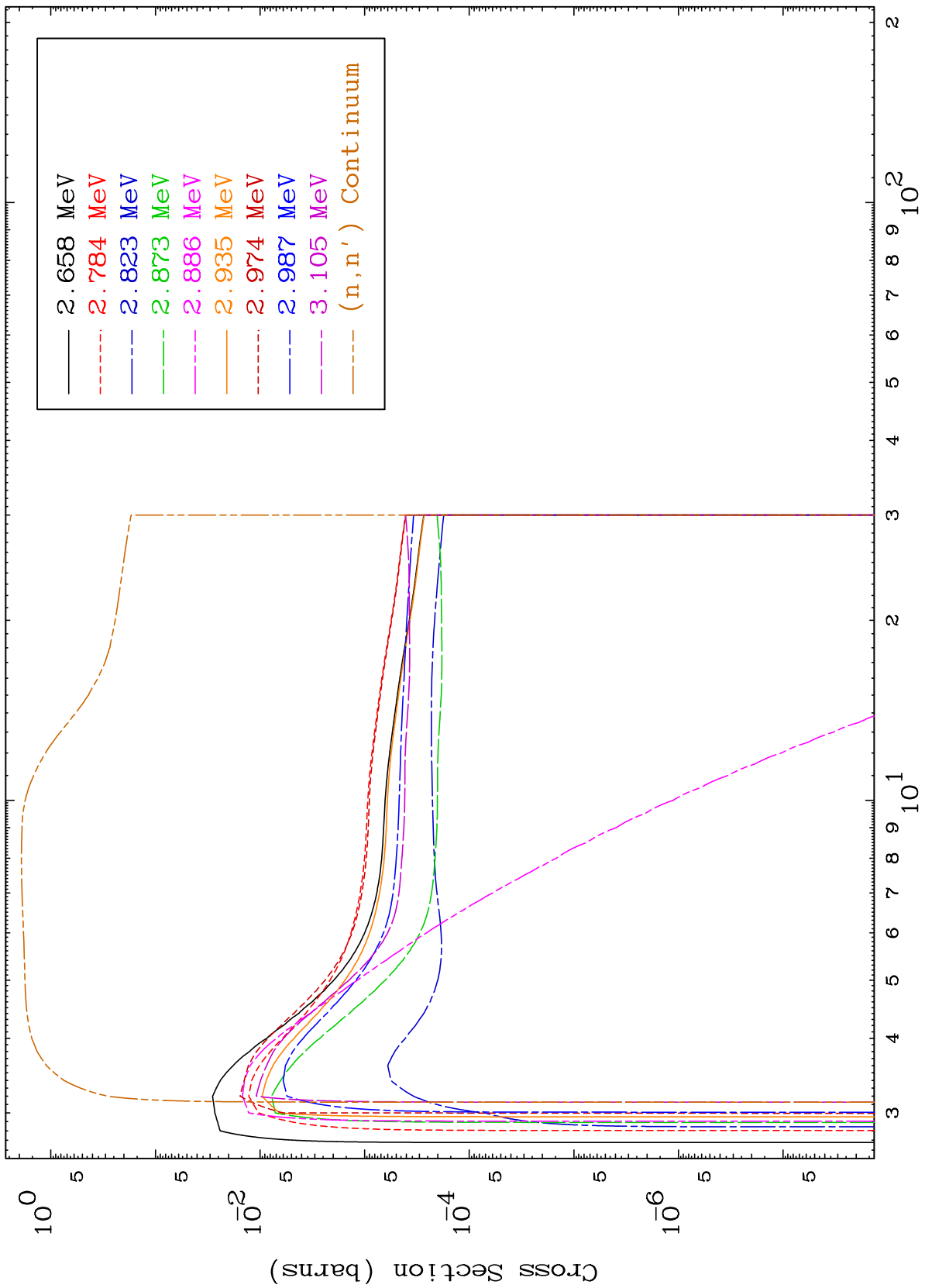
64-Gd-145

MAT 6404

(n,n') Level

64-Gd-145

293 Kelvin Cross Sections



9

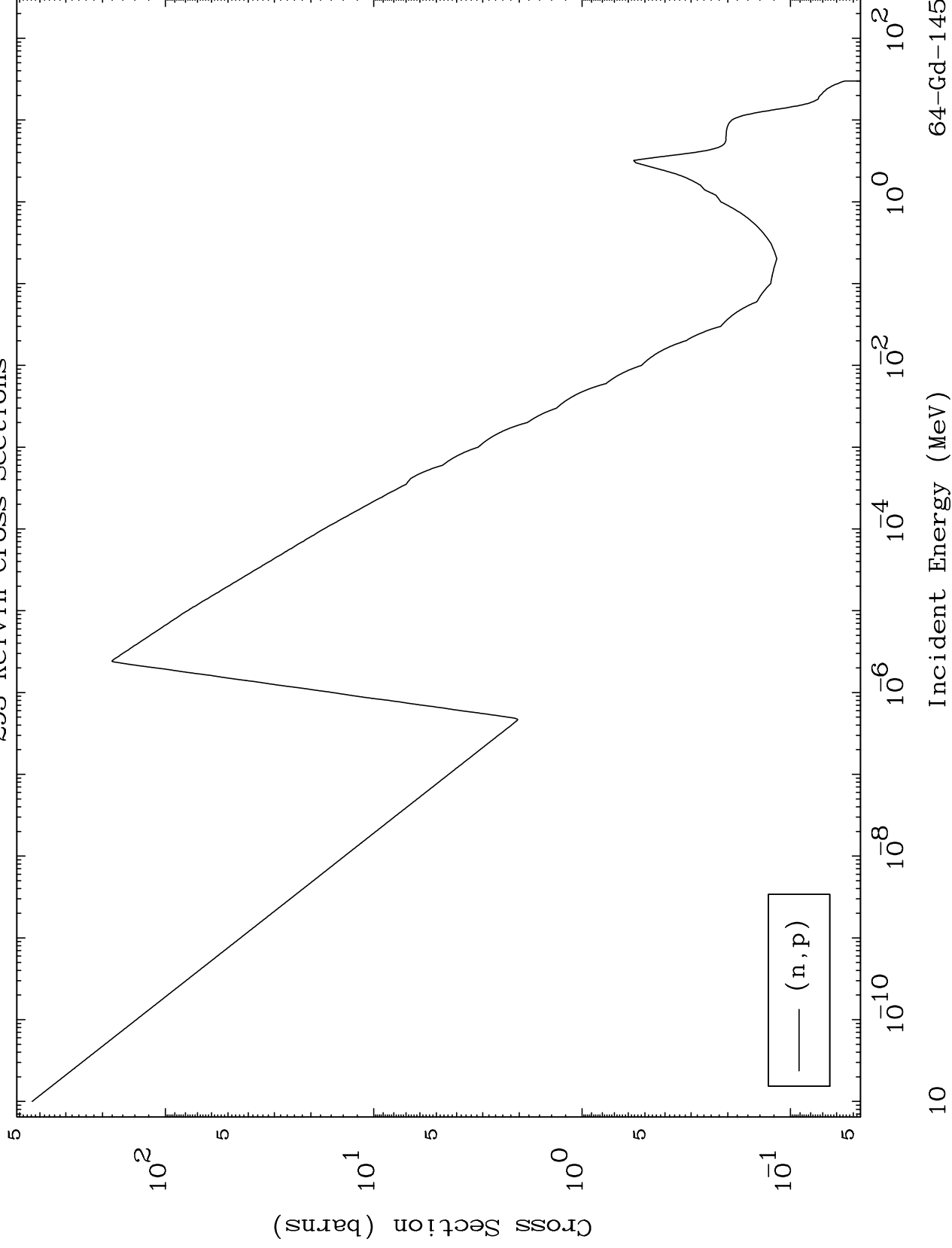
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,p) Levels  
293 Kelvin Cross Sections

64-Gd-145



10

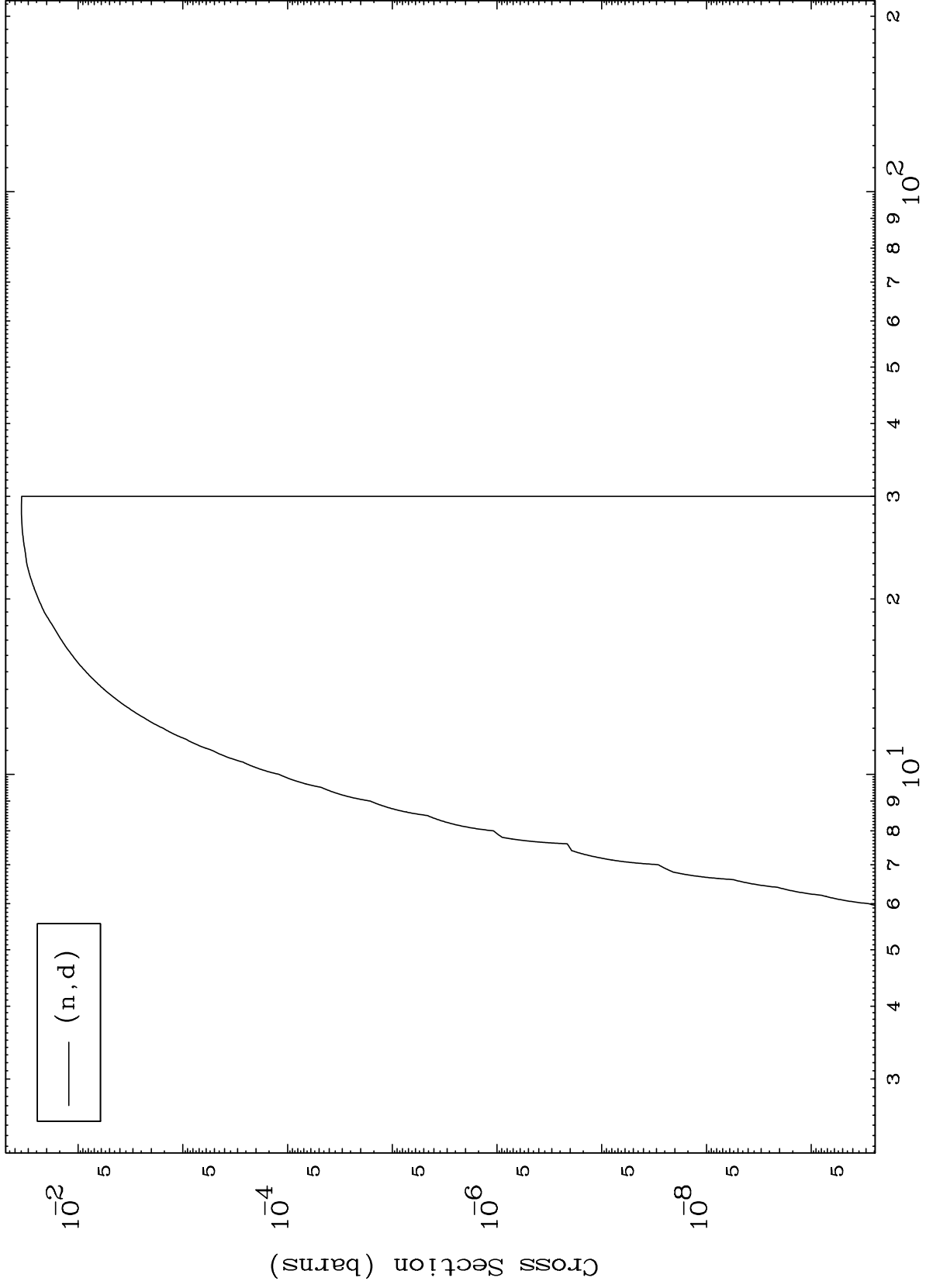
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,d) Levels  
293 Kelvin Cross Sections

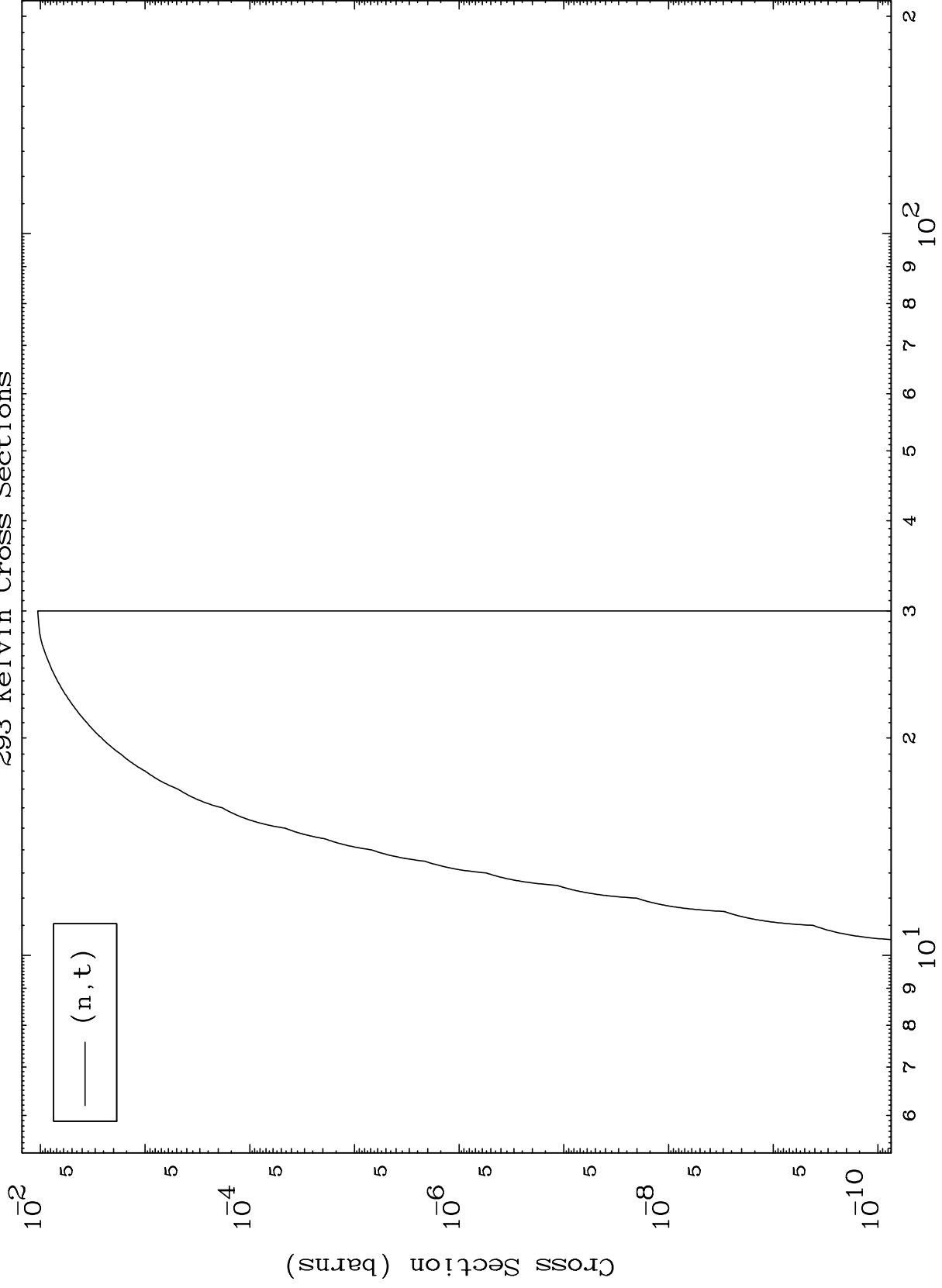
64-Gd-145



MAT 6404

(n,t) Levels  
293 Kelvin Cross Sections

64-Gd-145



12

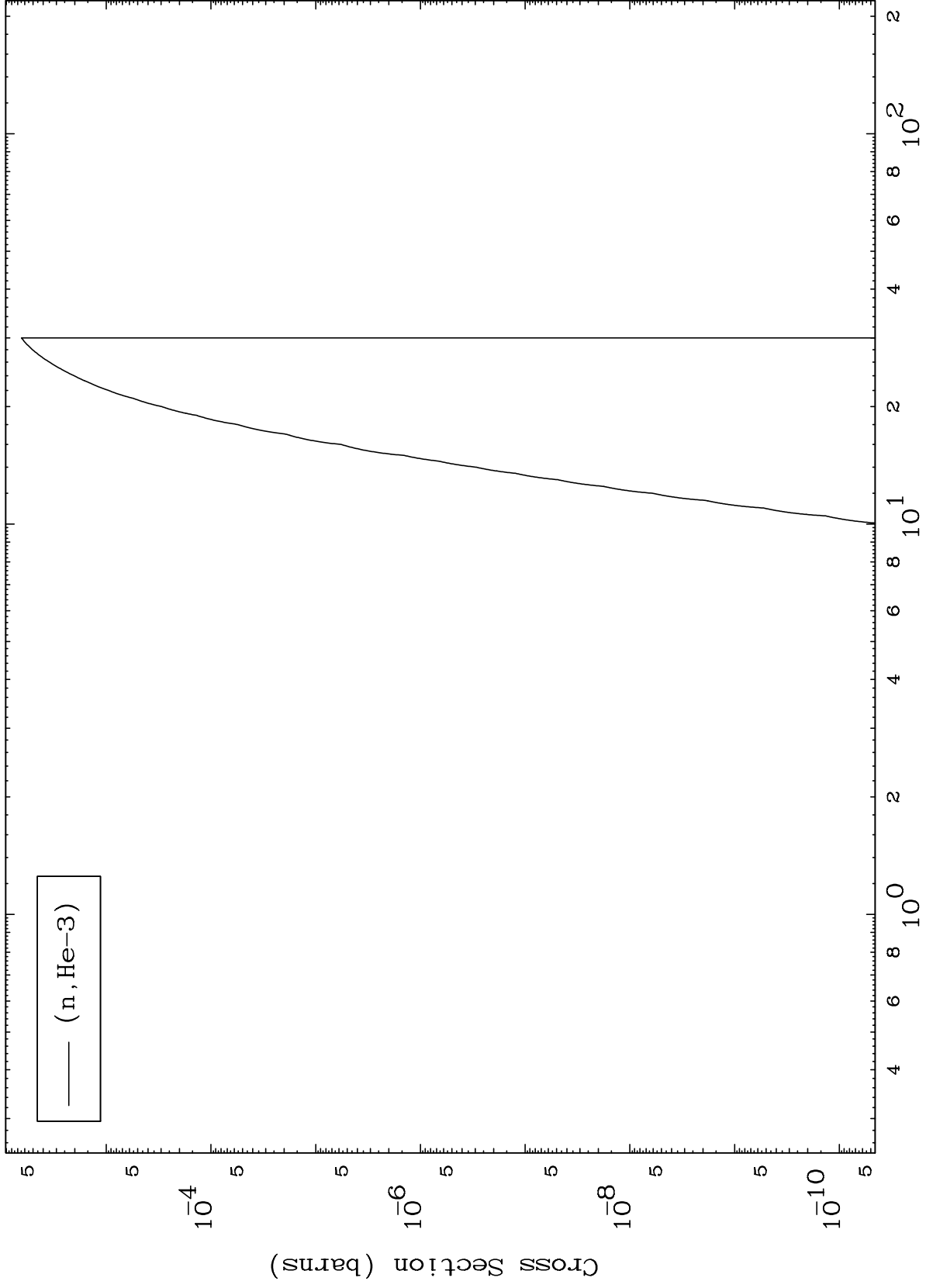
Incident Energy (MeV)

64-Gd-145

MAT 6404

(n,He3) Levels  
293 Kelvin Cross Sections

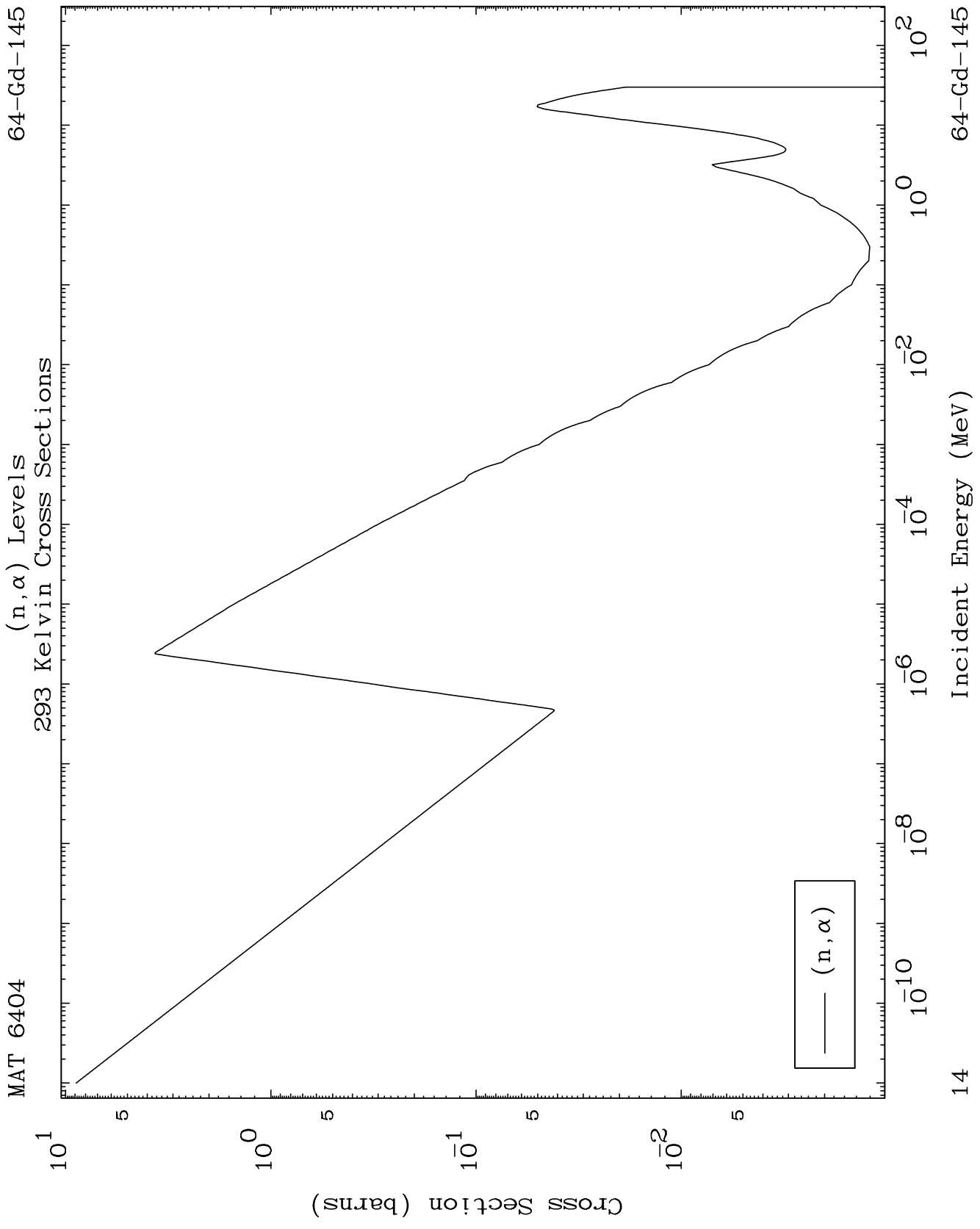
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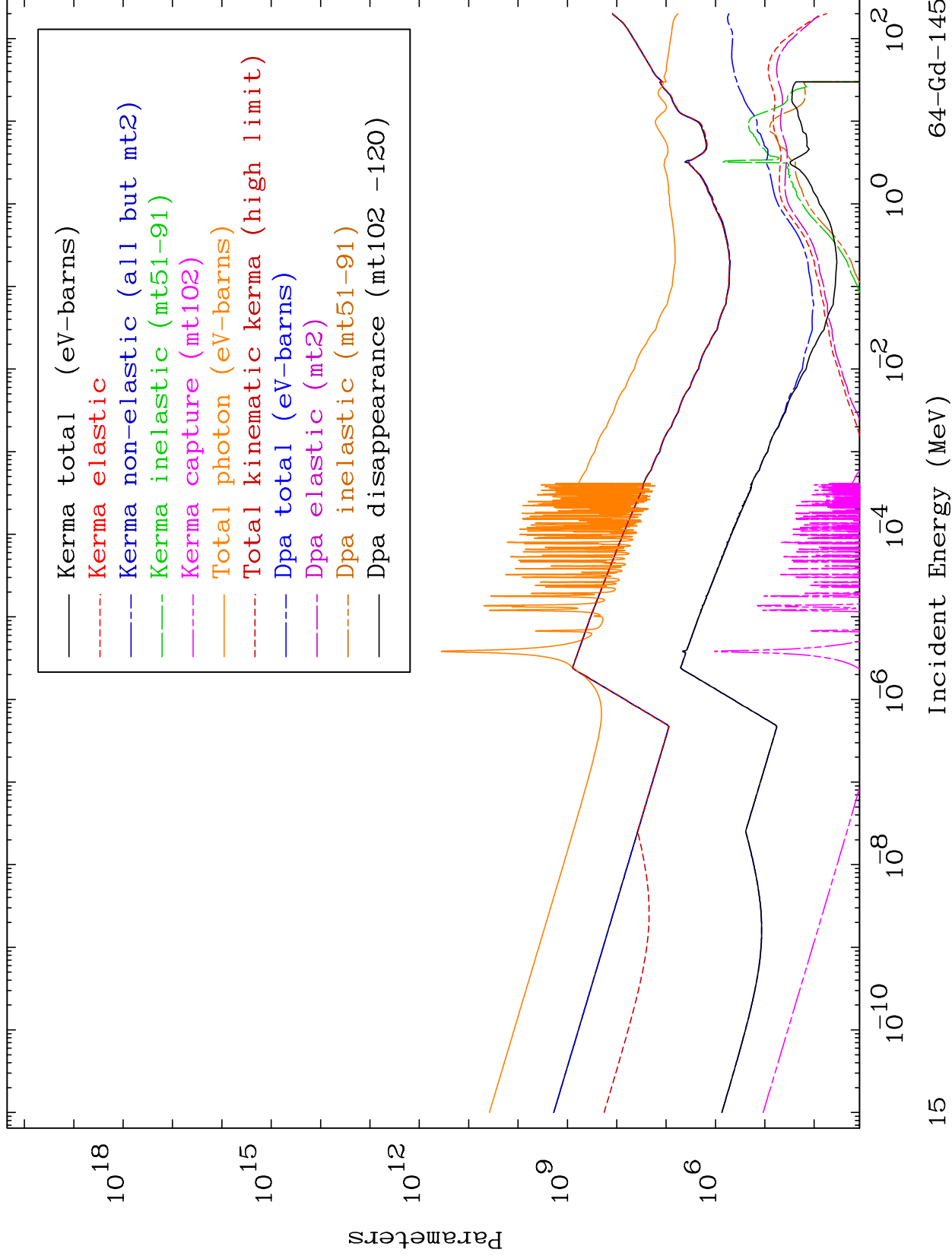


13

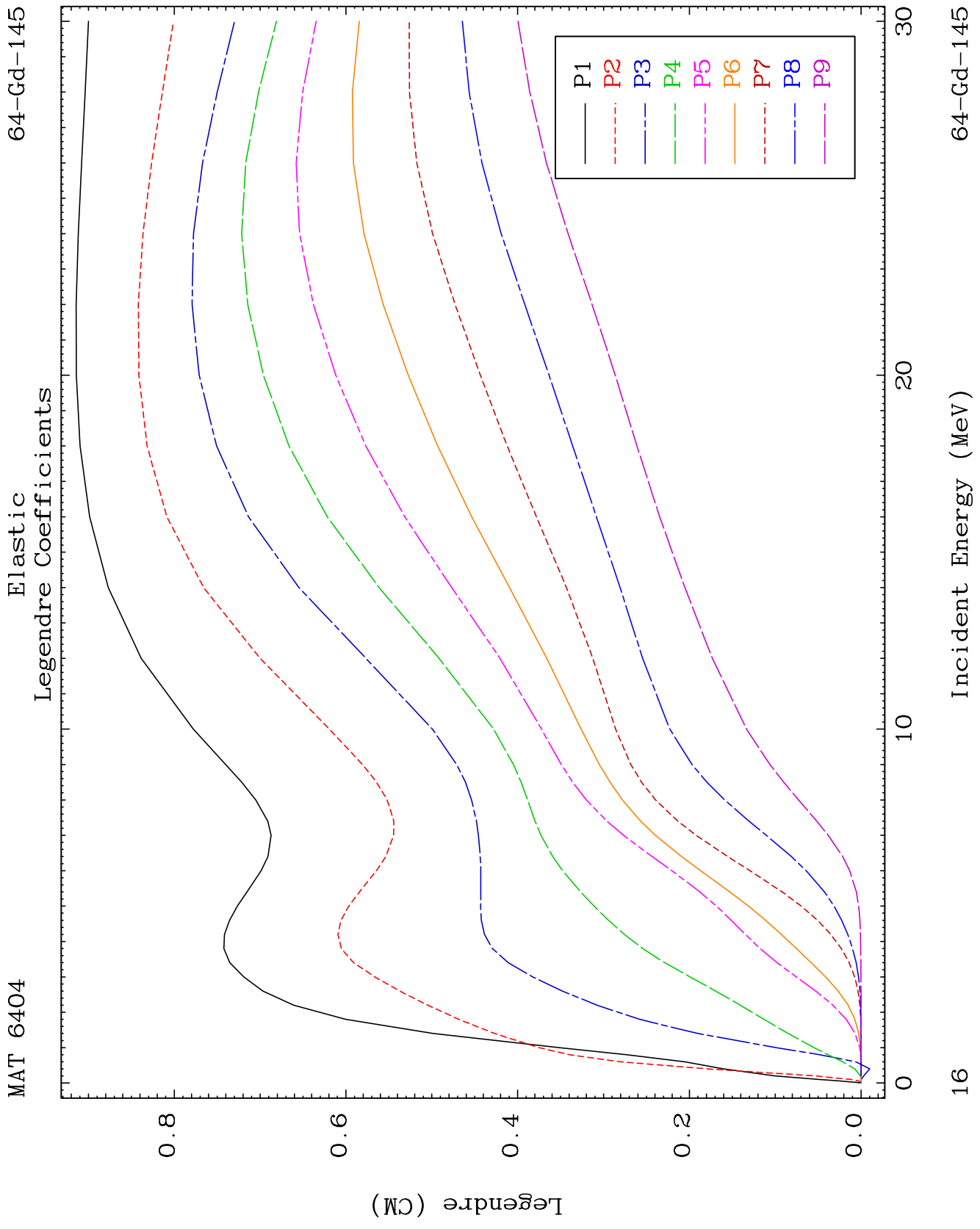
Incident Energy (MeV)

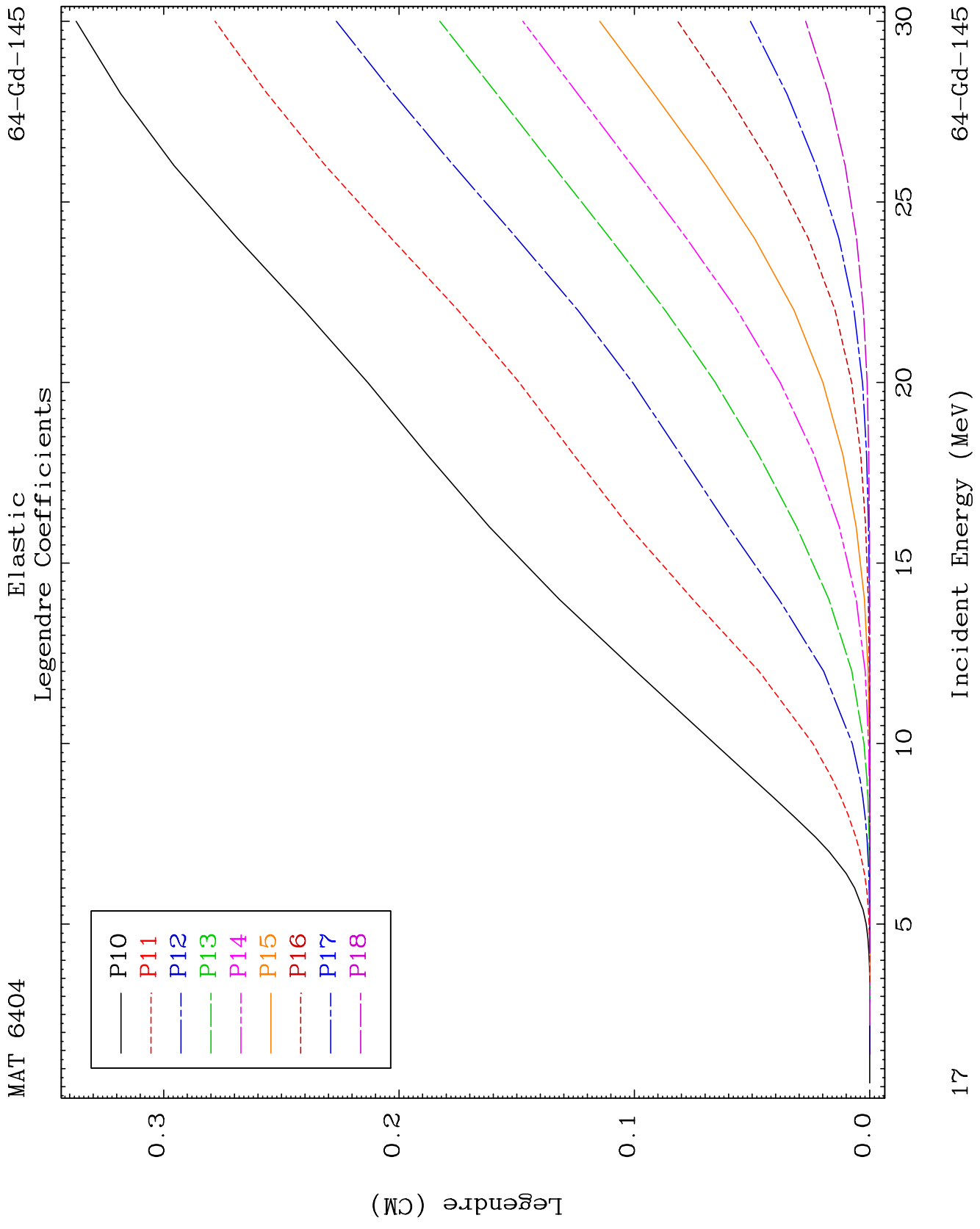
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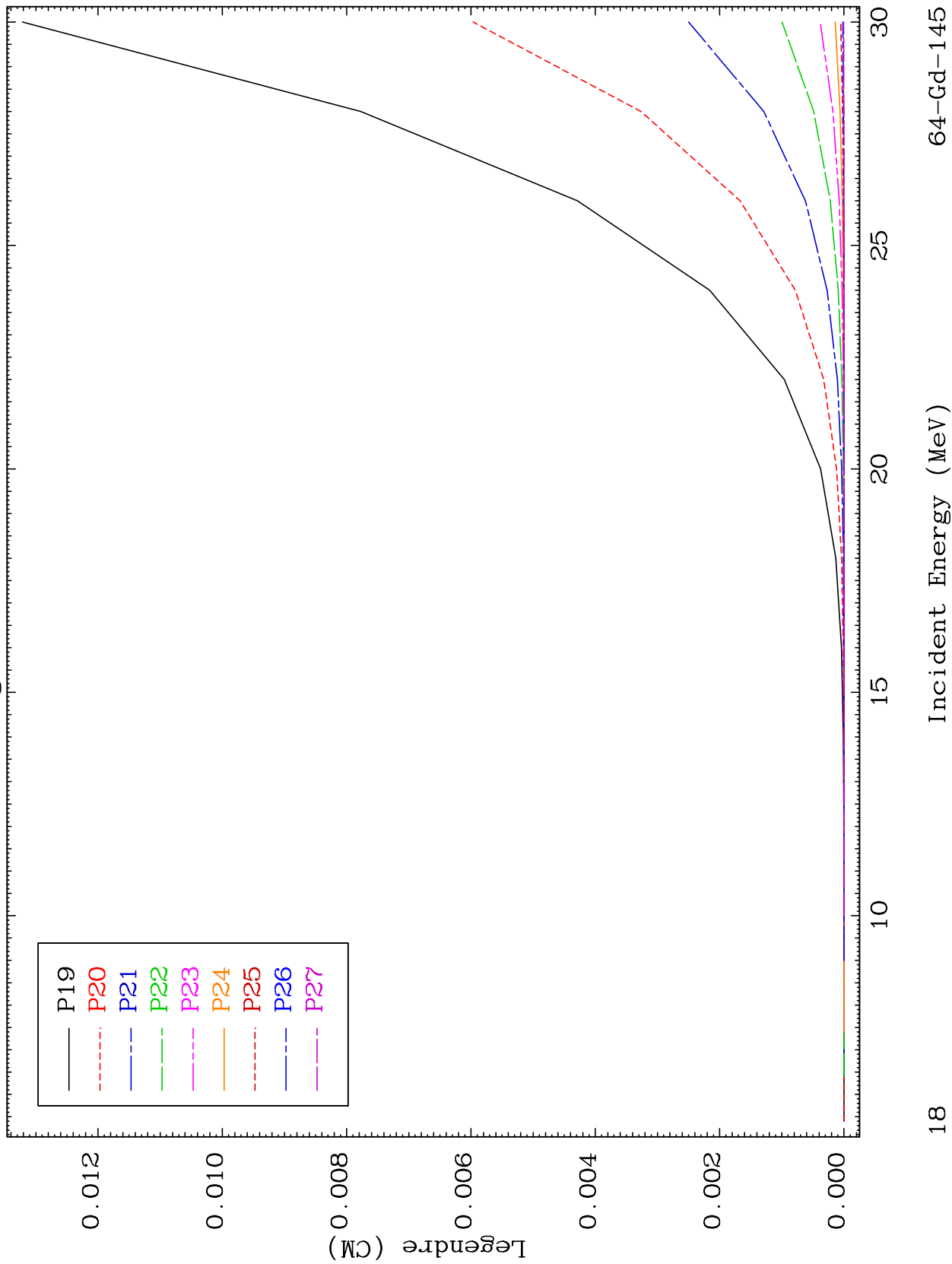




MAT 6404

### Elastic Legendre Coefficients

64-Gd-145



18

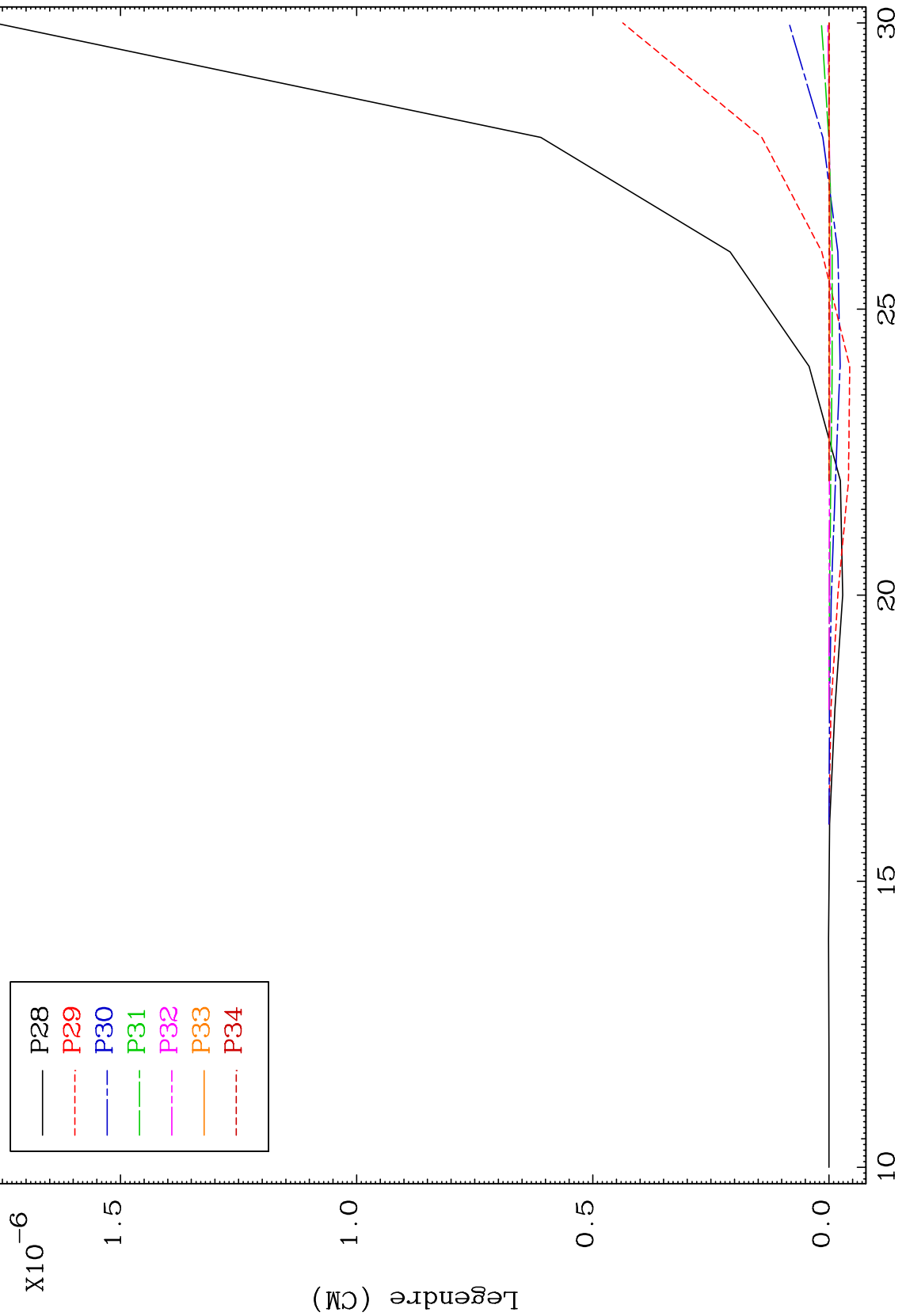
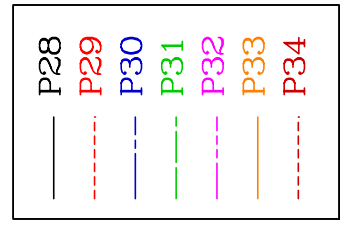
Incident Energy (MeV)

64-Gd-145

MAT 6404

Elastic Legendre Coefficients

64-Gd-145



19

Incident Energy (MeV)

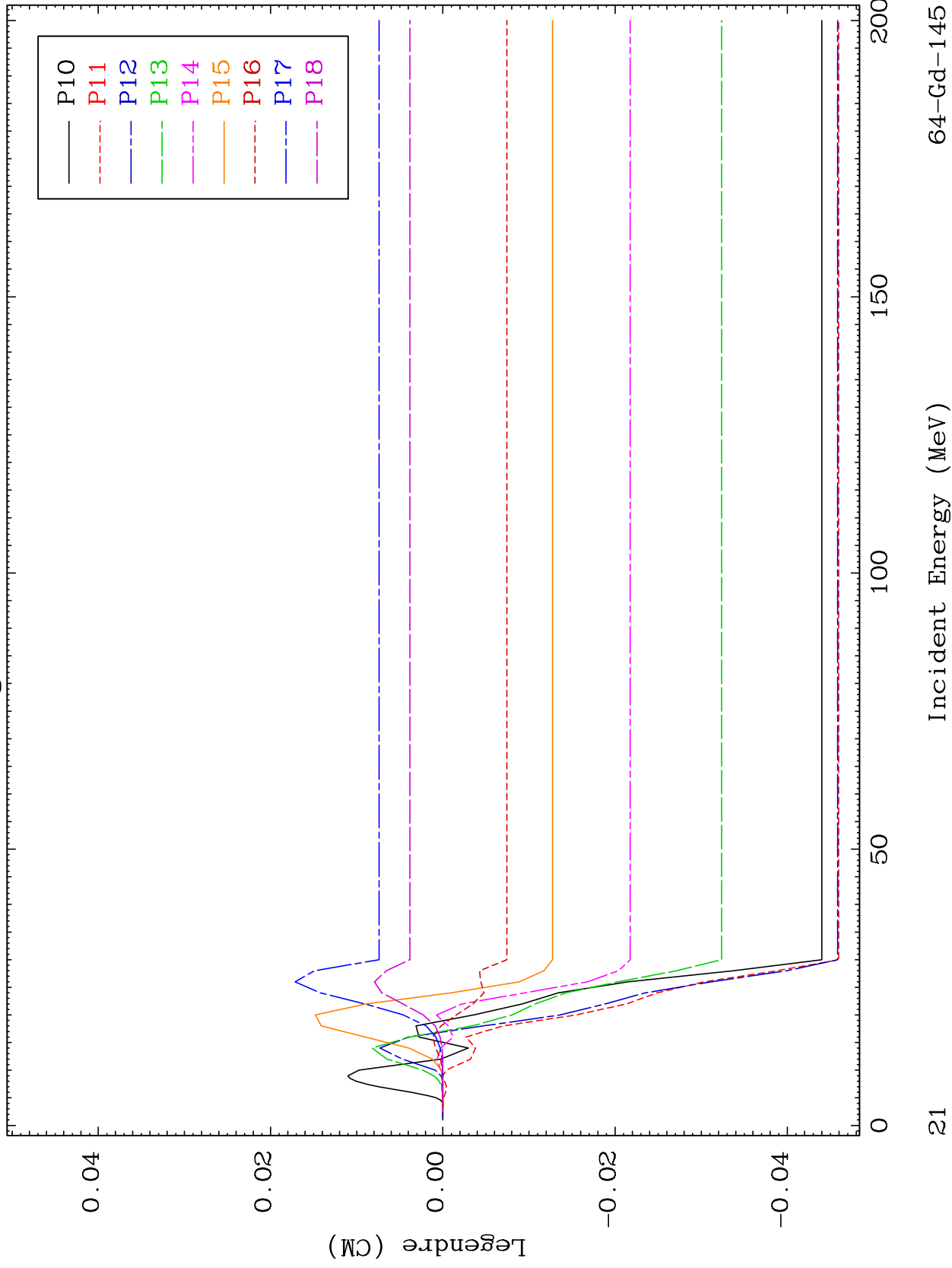
64-Gd-145



MAT 6404

27.30 keV (n,n') Level  
Legendre Coefficients

64-Gd-145



21

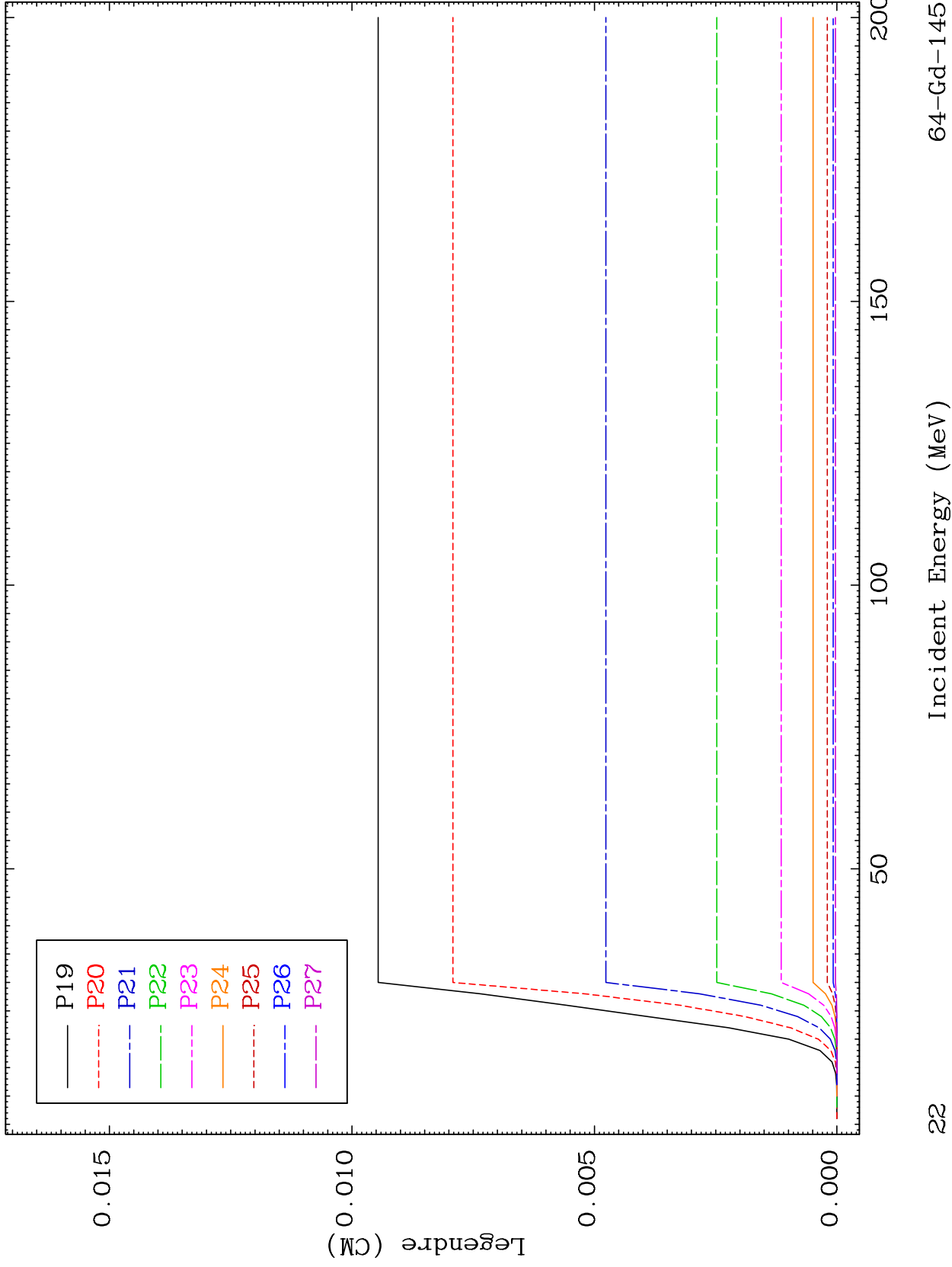
Incident Energy (MeV)

64-Gd-145

MAT 6404

27.30 keV (n,n') Level  
Legendre Coefficients

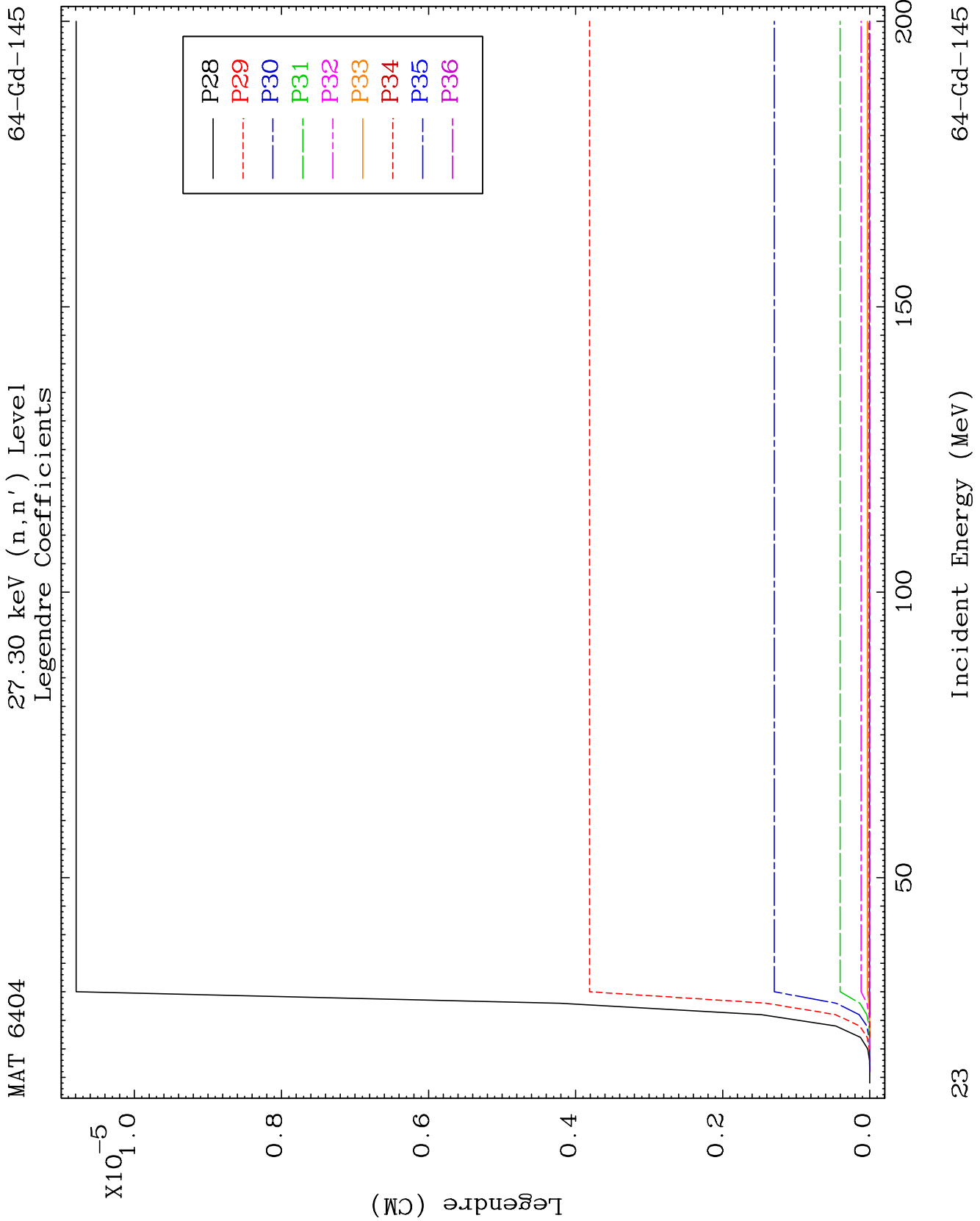
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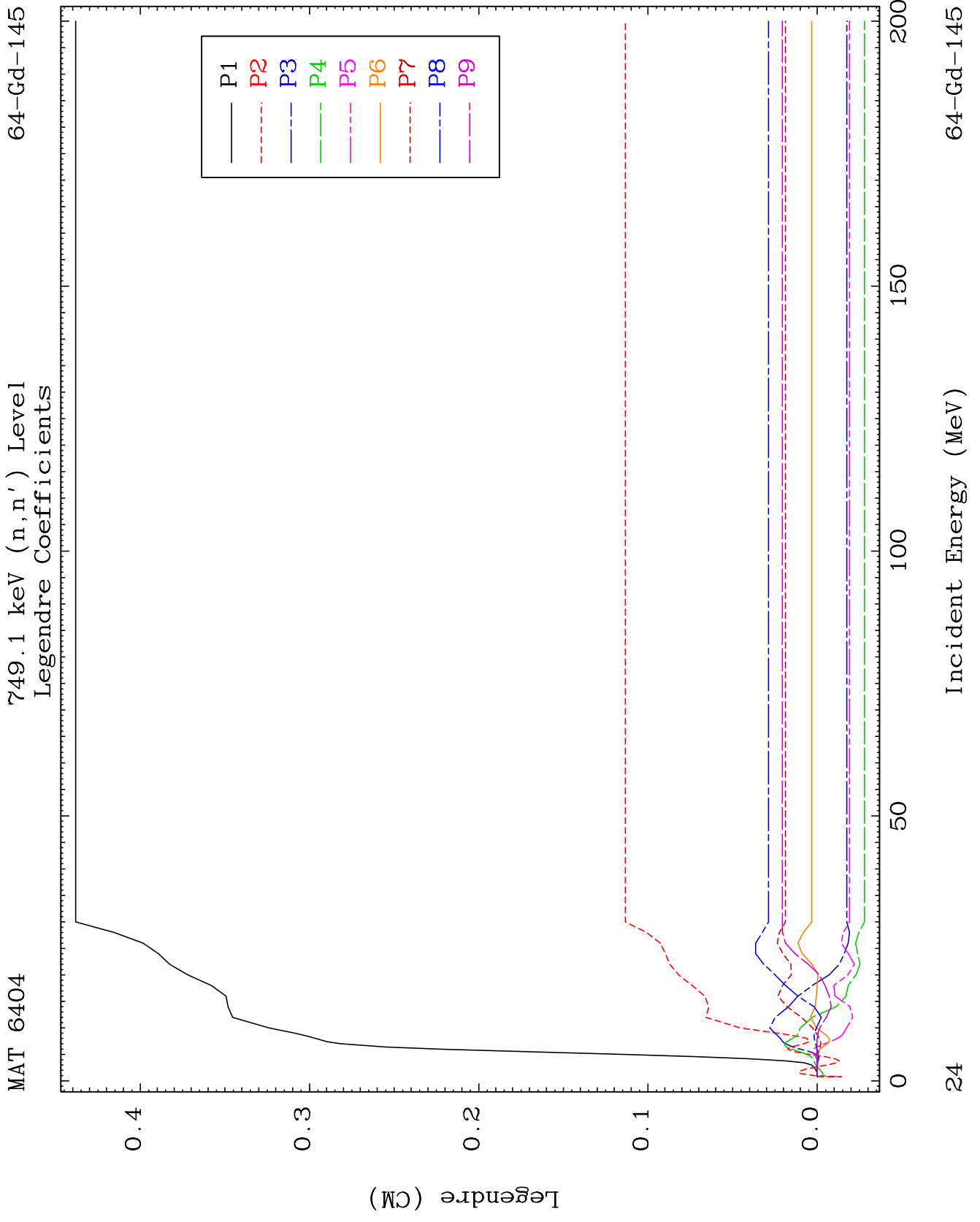
22

Incident Energy (MeV)

64-Gd-145



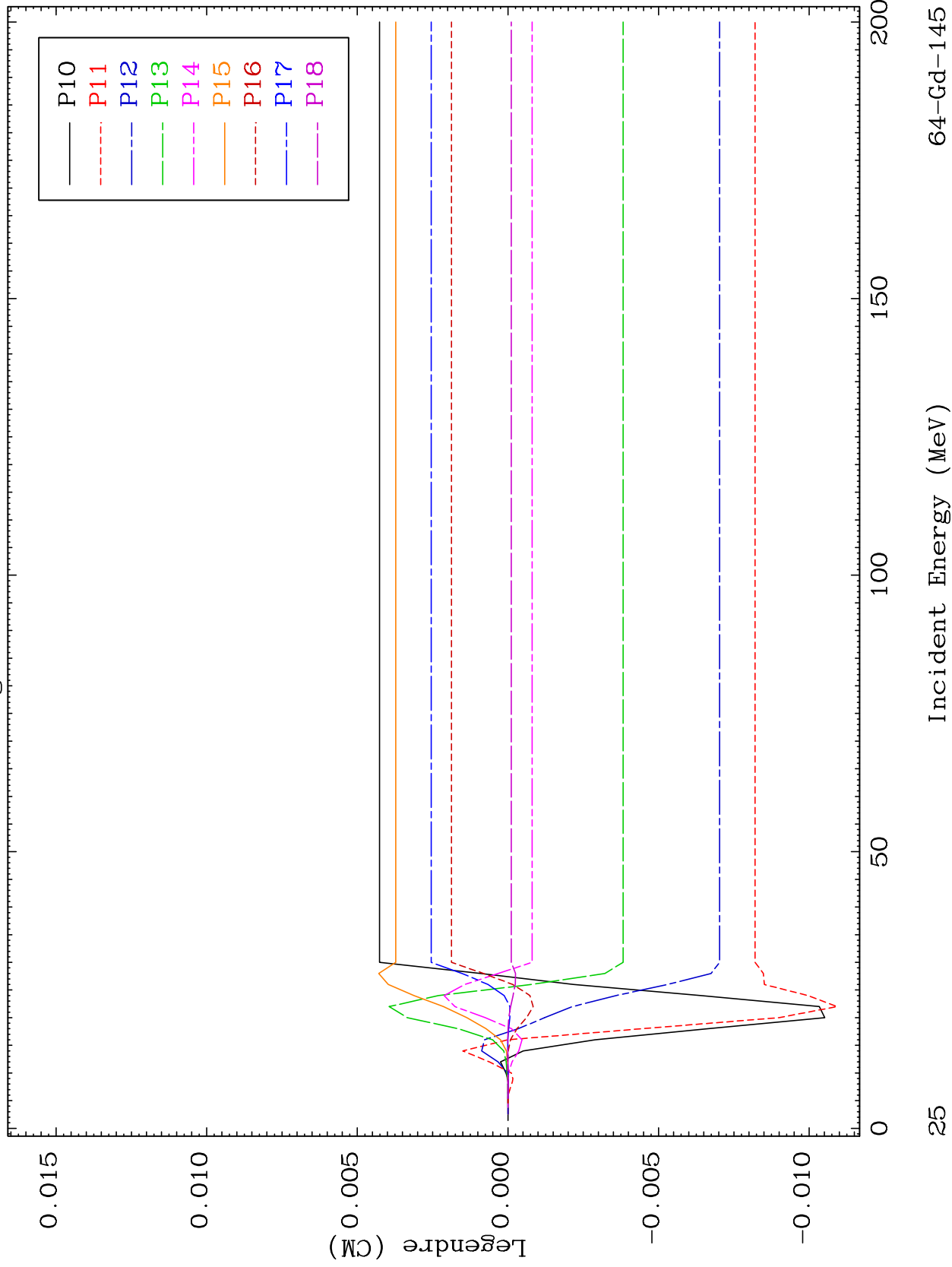


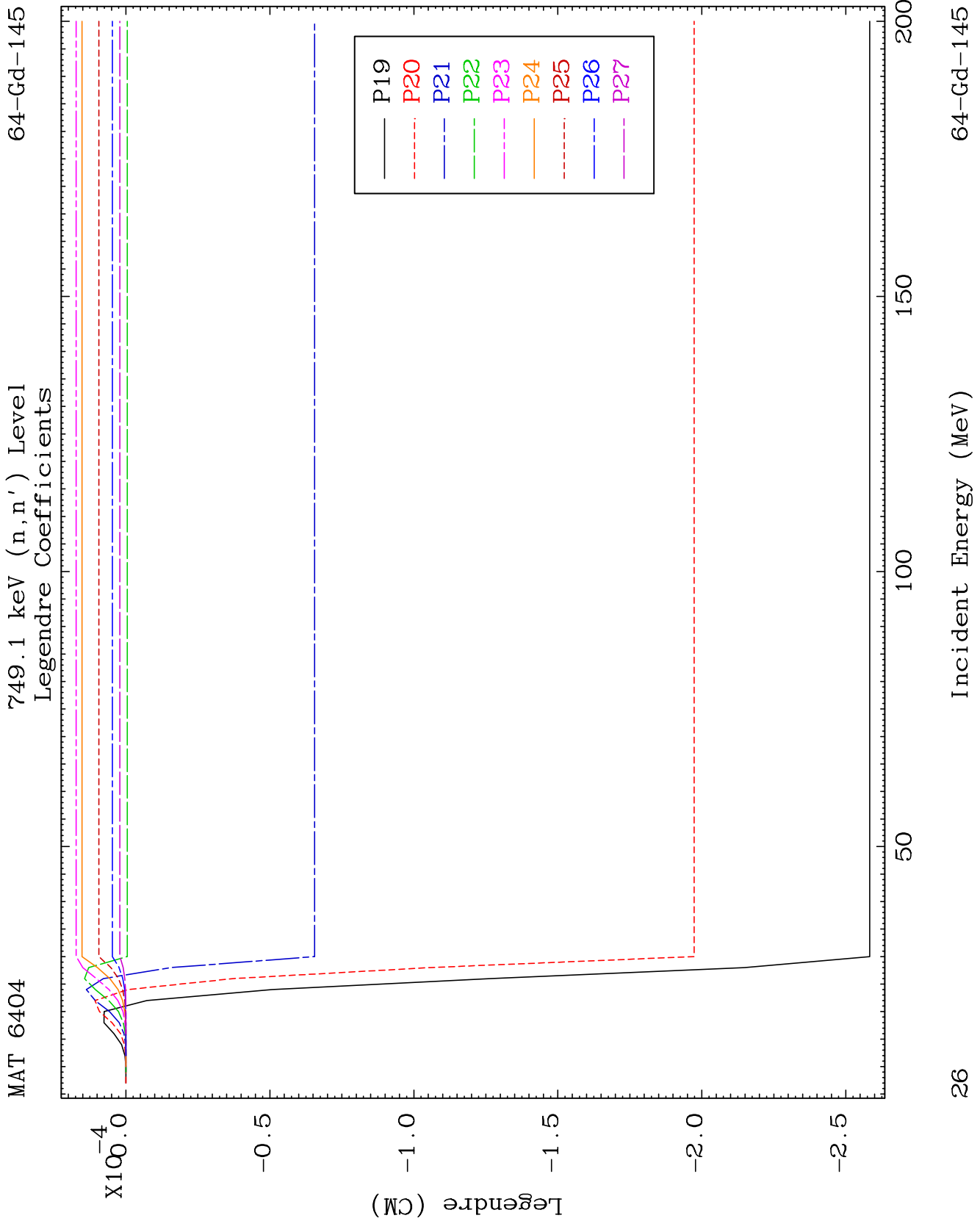


MAT 6404

749.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-145

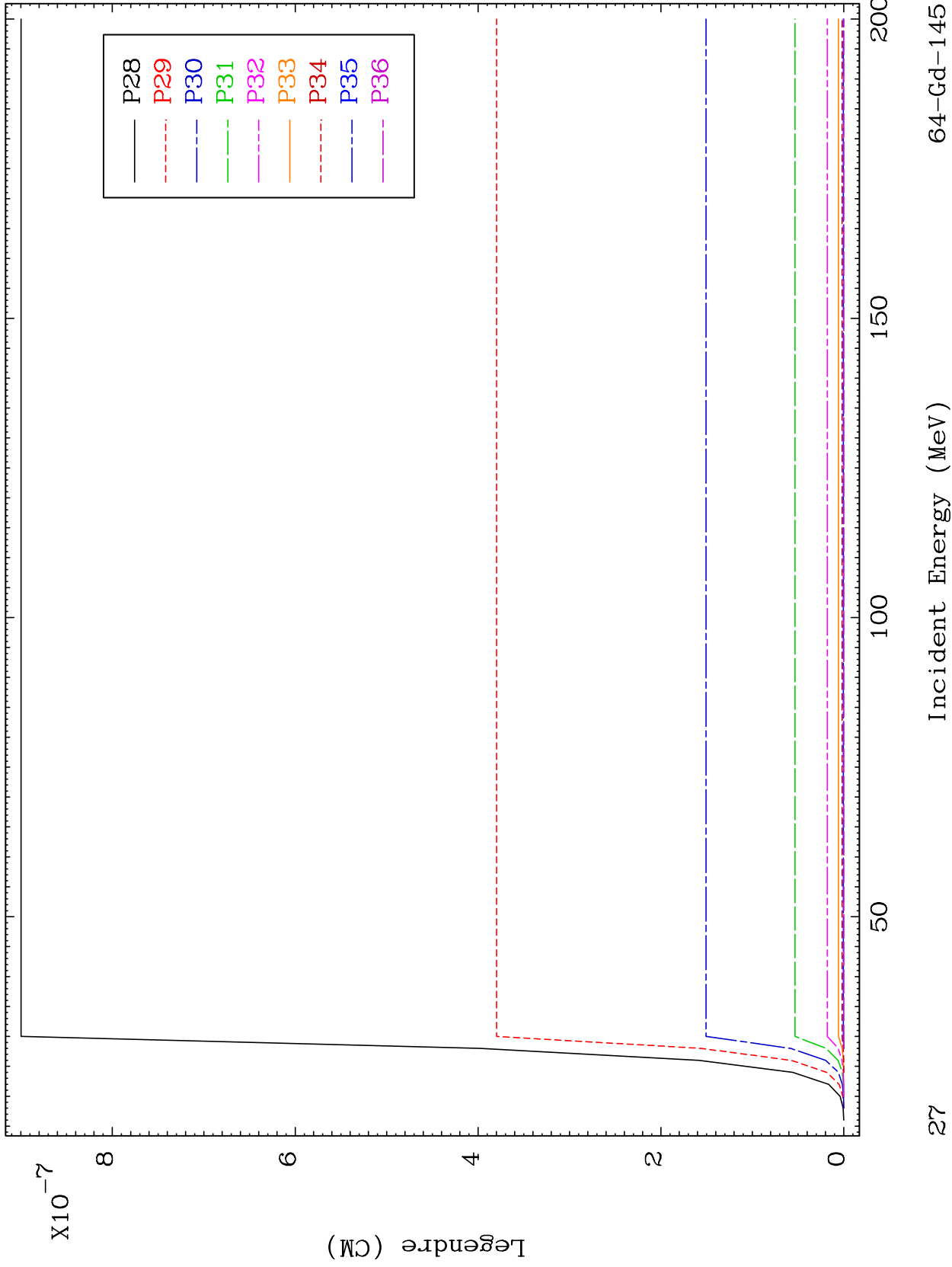


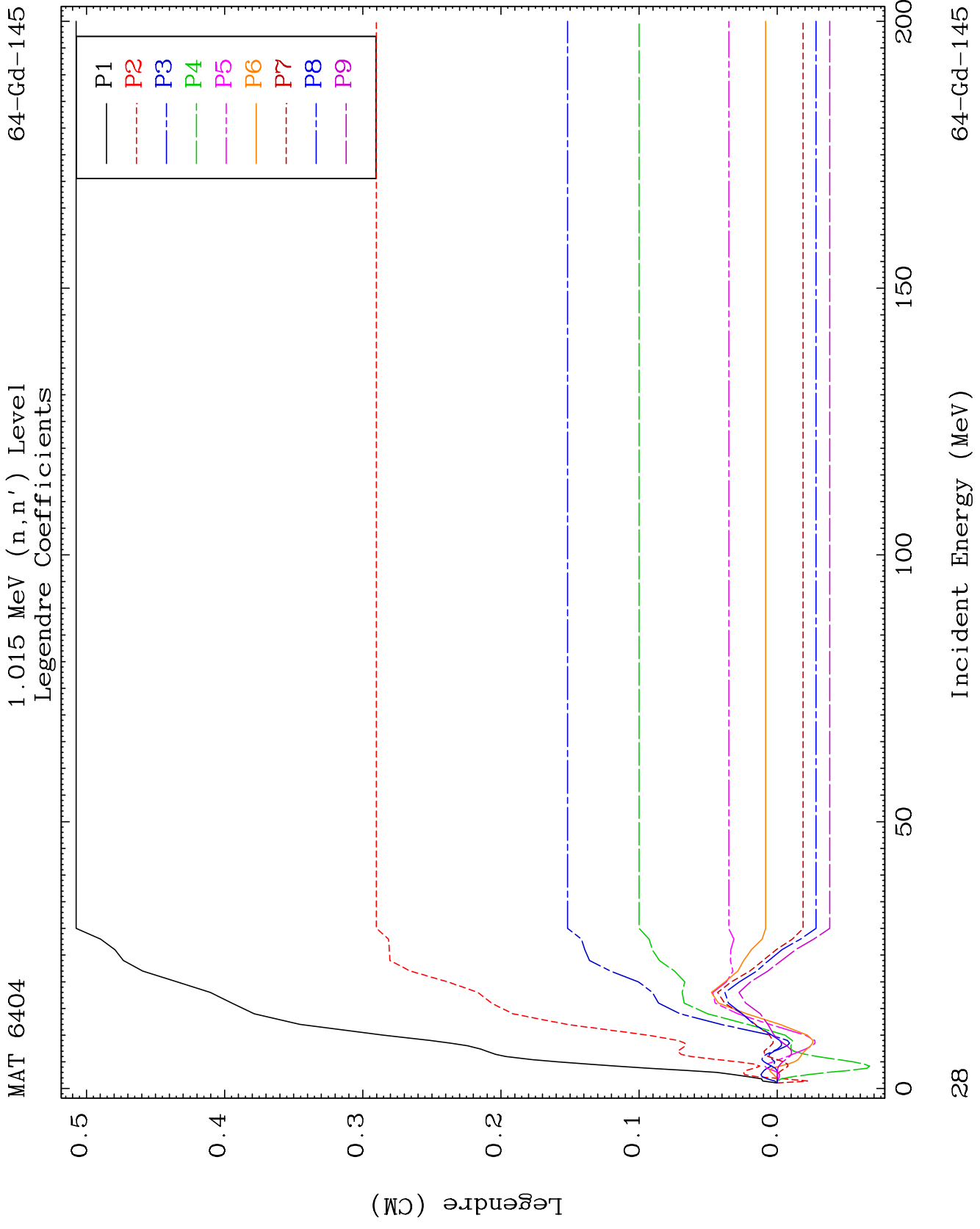


MAT 6404

749.1 keV (n,n') Level  
Legendre Coefficients

64-Gd-145

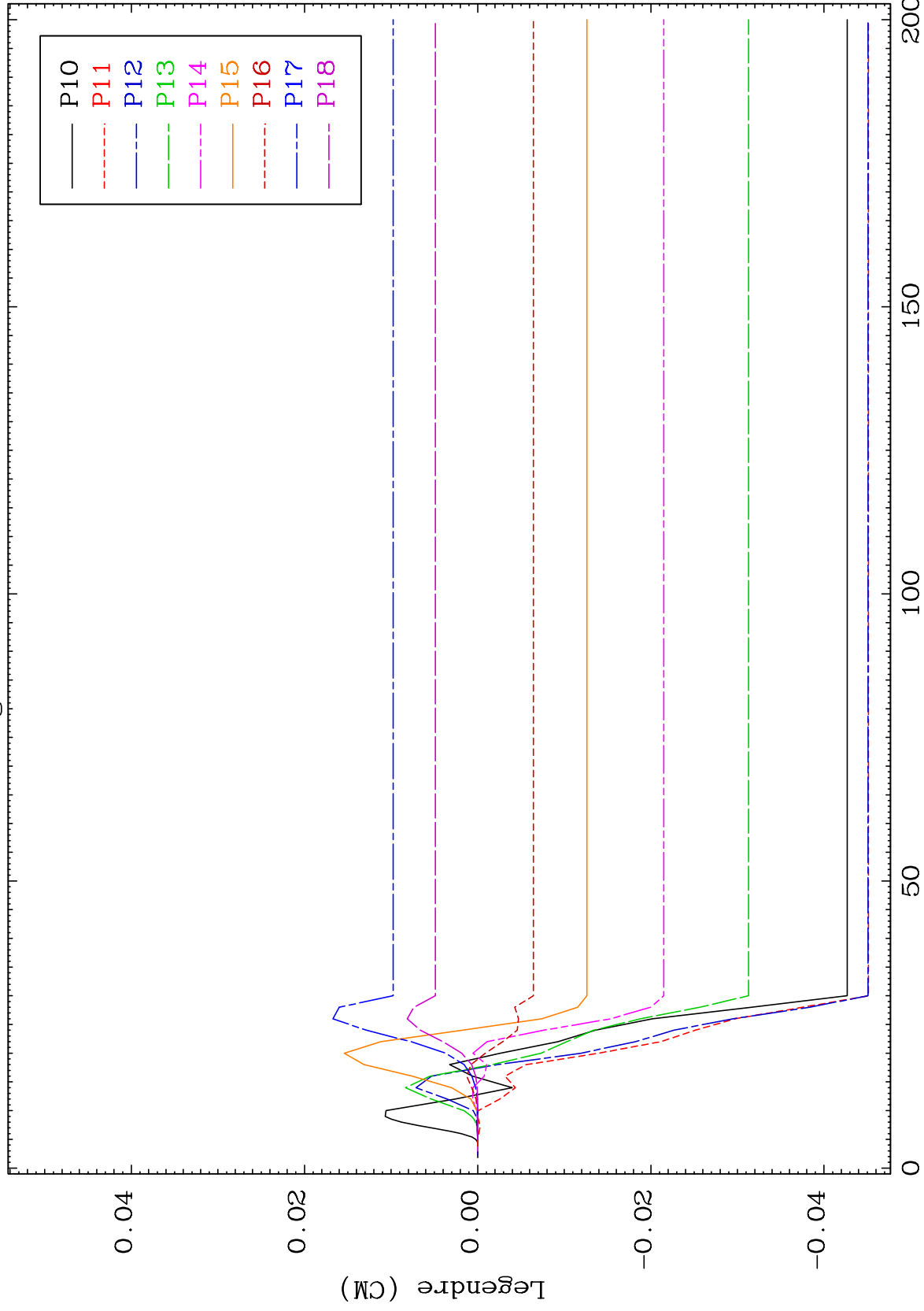




MAT 6404

1.015 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



29

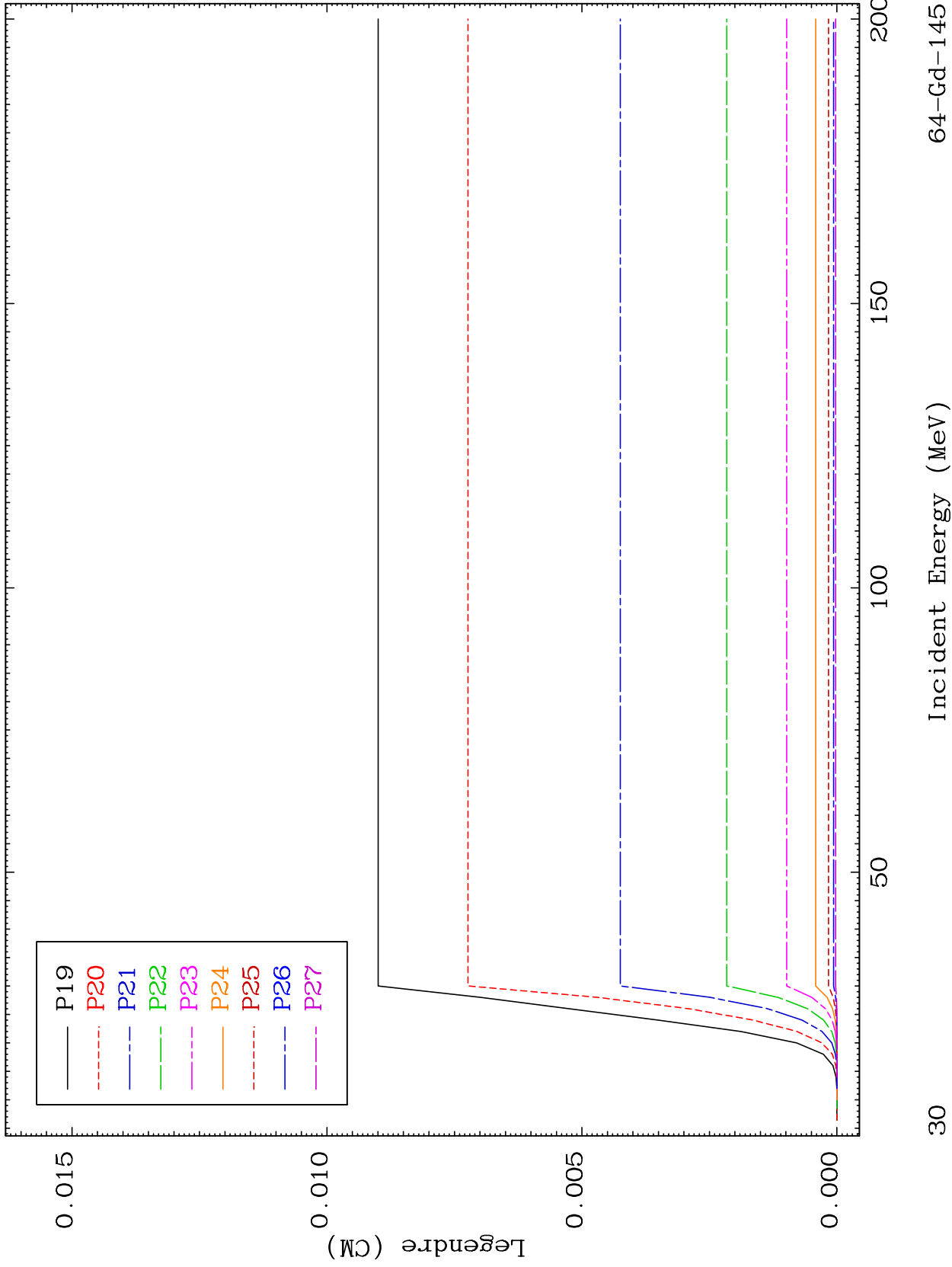
Incident Energy (MeV)

64-Gd-145

MAT 6404

1.015 MeV (n,n') Level  
Legendre Coefficients

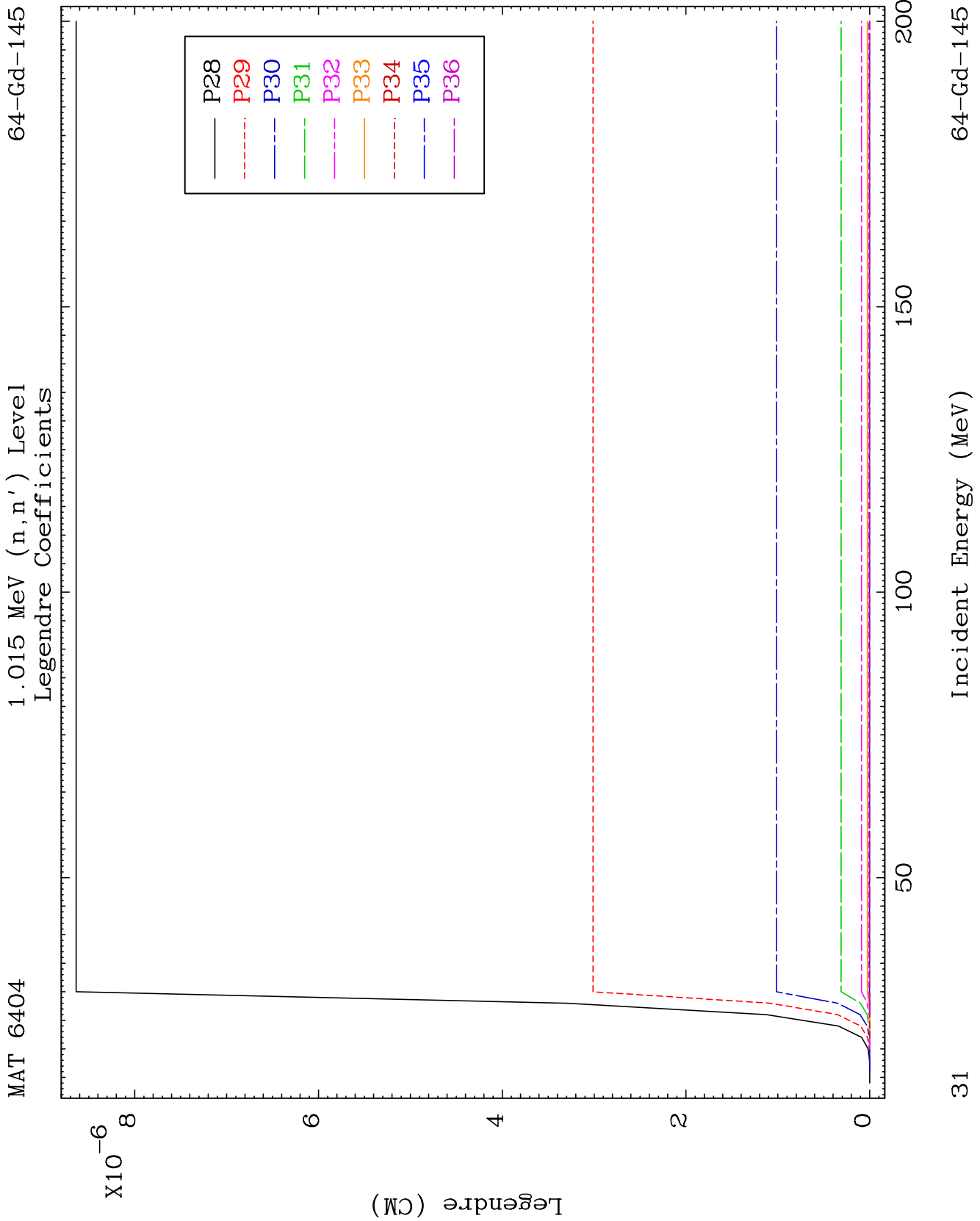
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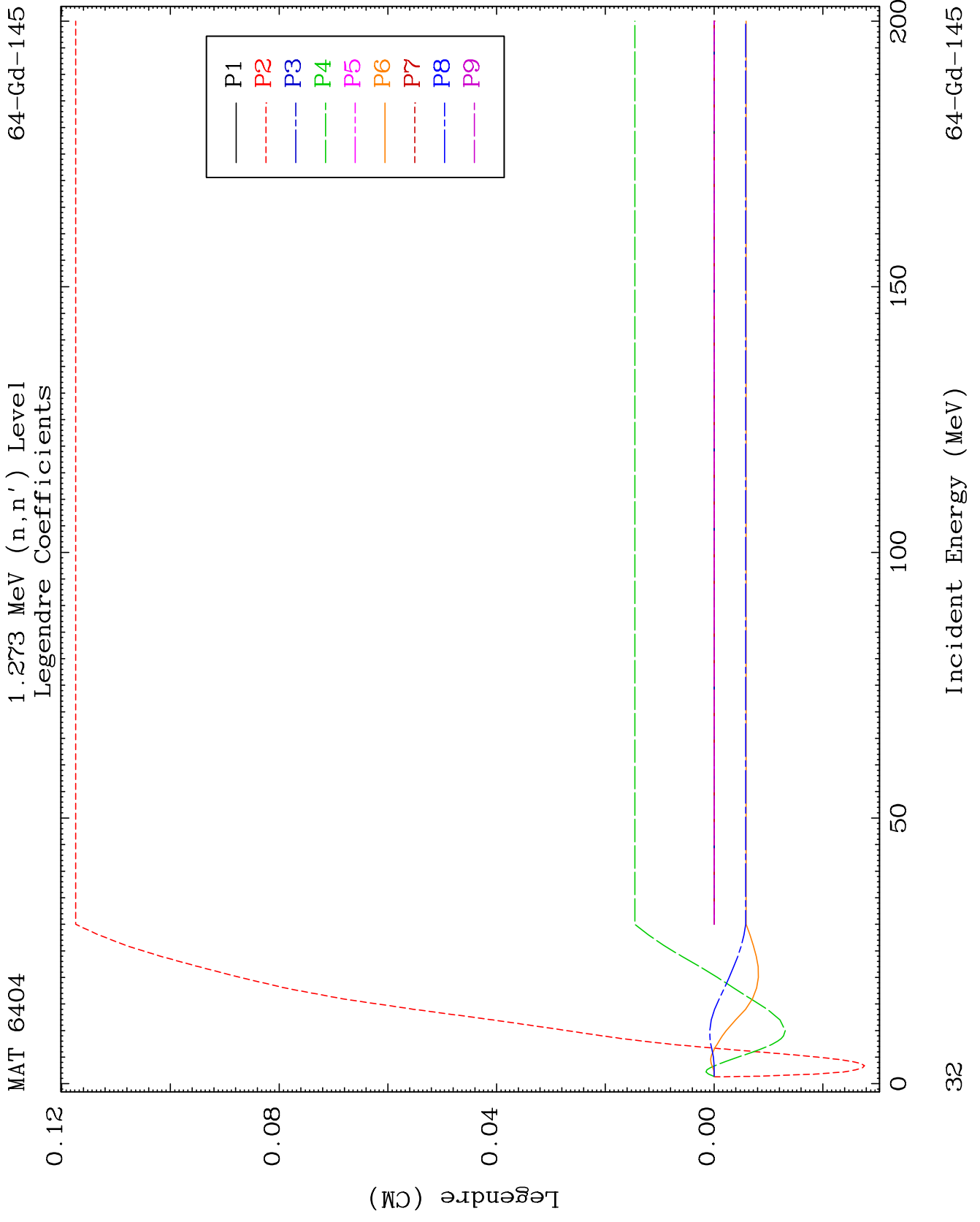
30

Incident Energy (MeV)

64-Gd-145



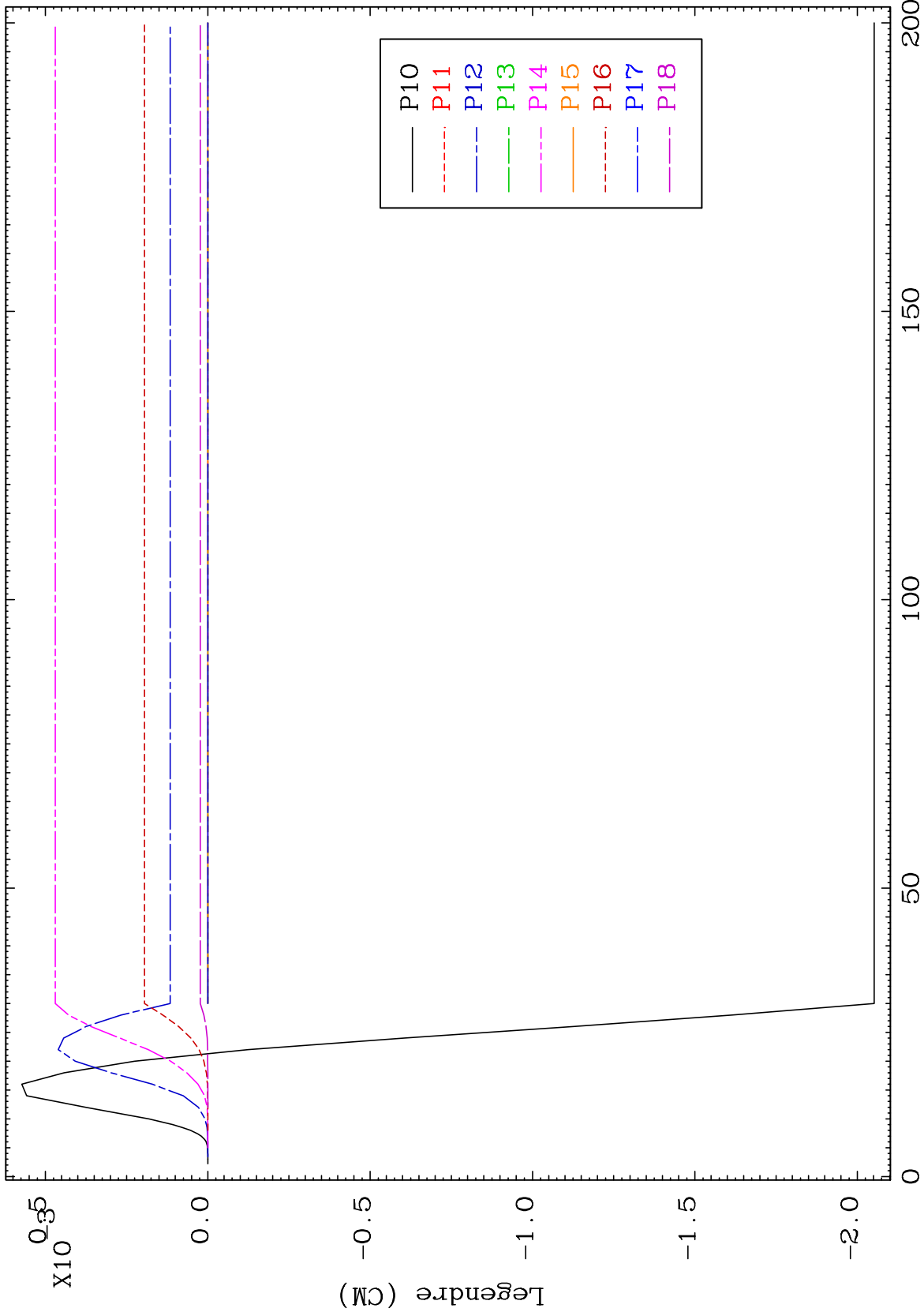




MAT 6404

1.273 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145

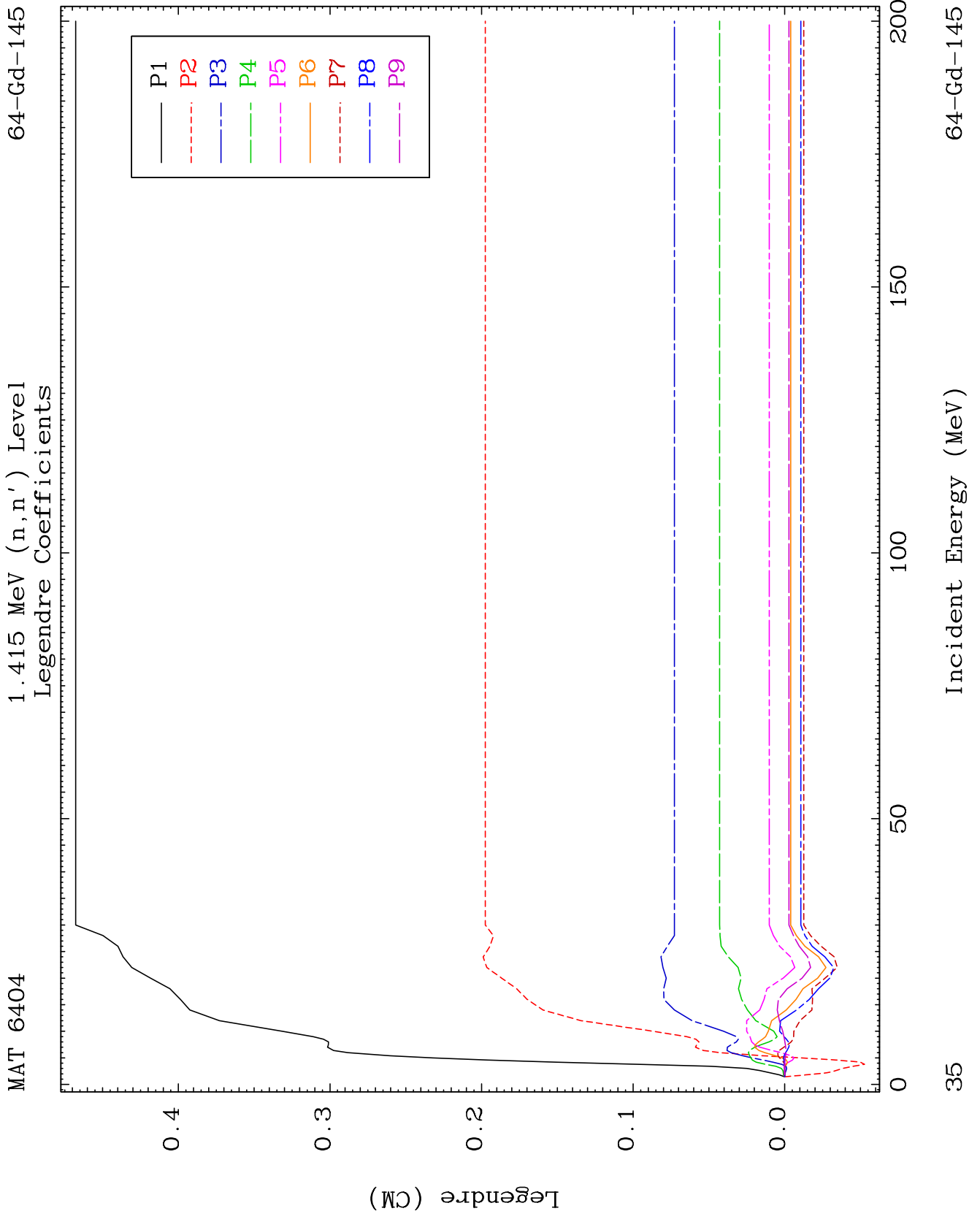


33

Incident Energy (MeV)

64-Gd-145



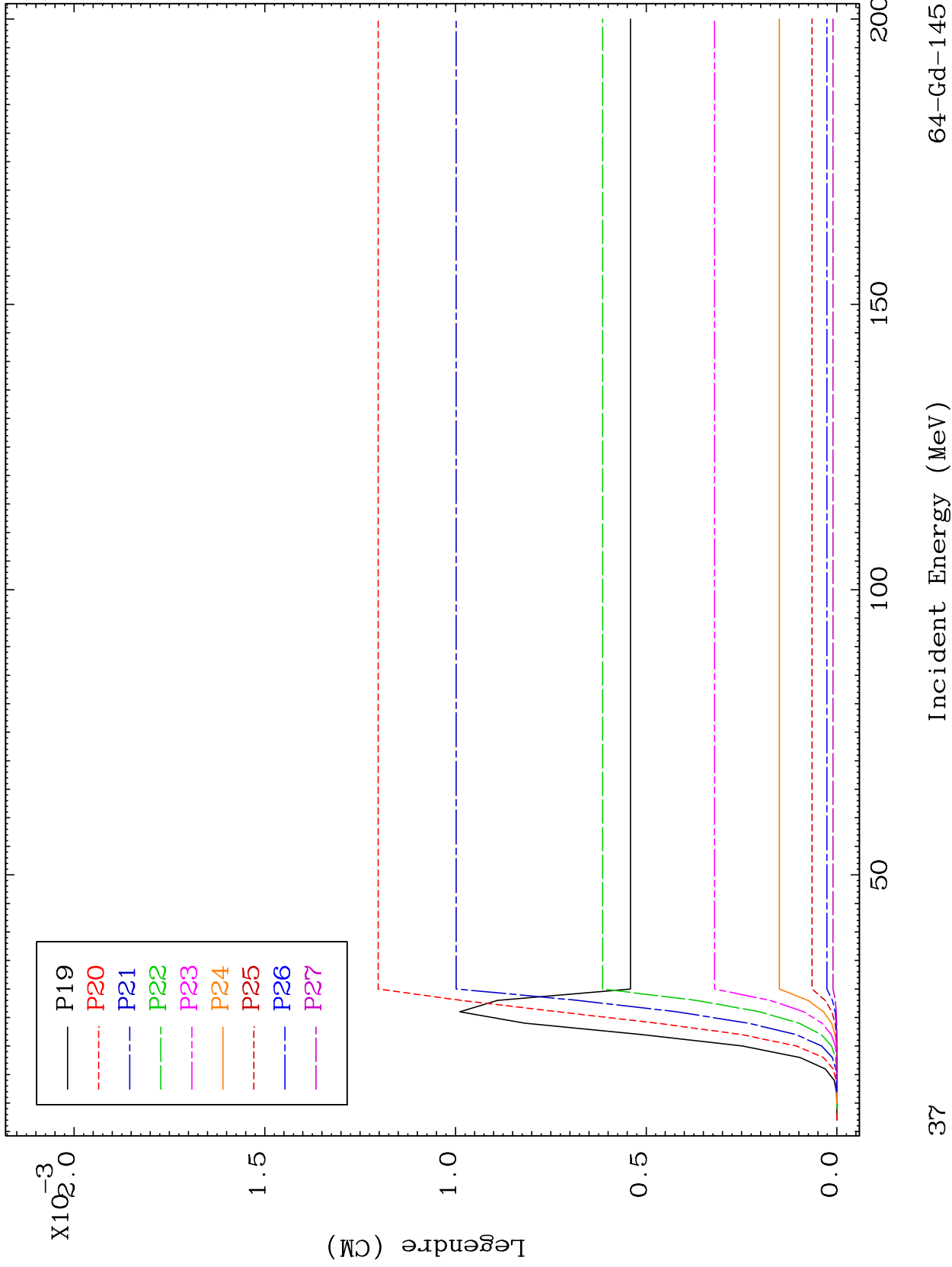




MAT 6404

1.415 MeV (n,n') Level  
Legendre Coefficients

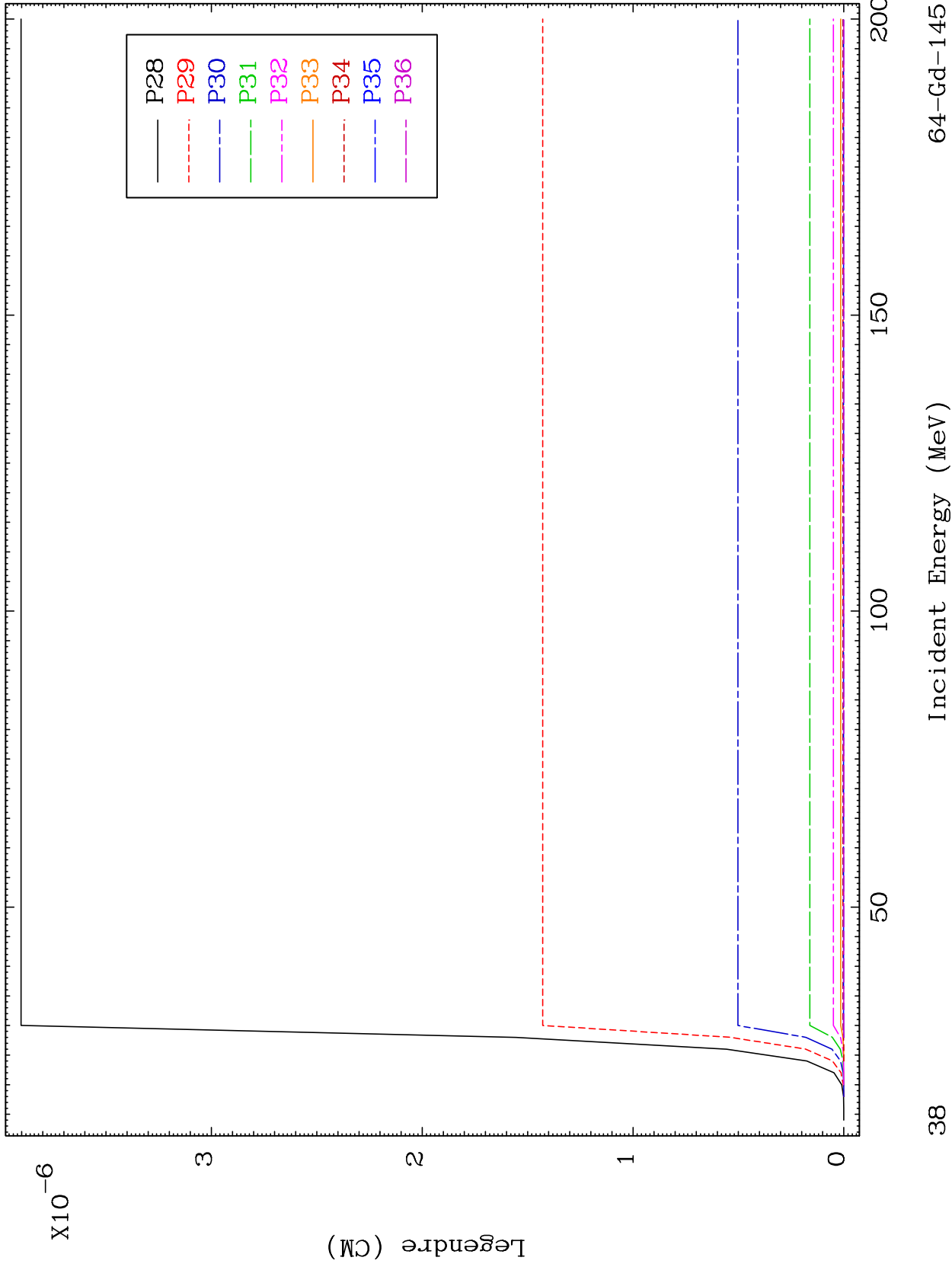
64-Gd-145



MAT 6404

1.415 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



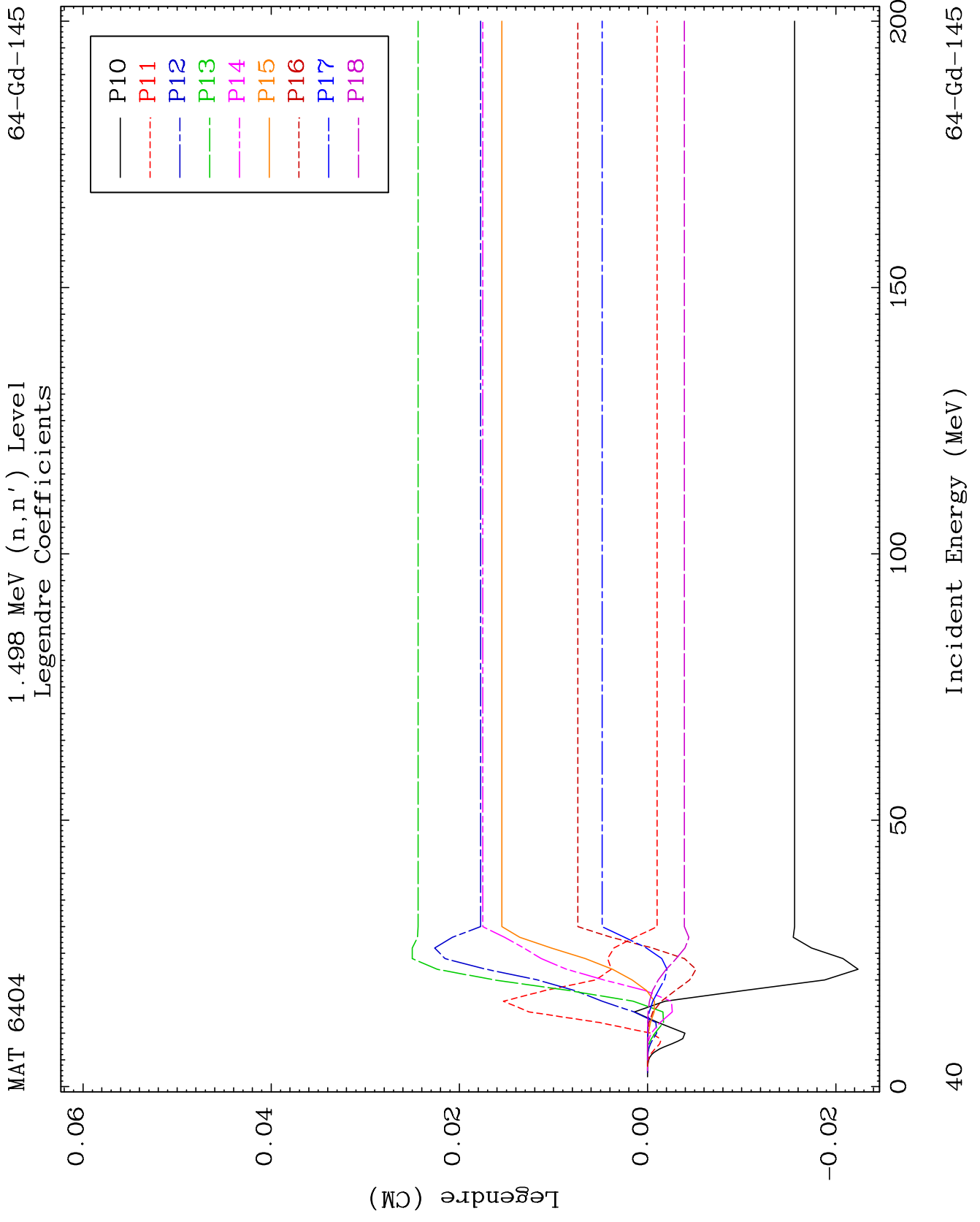
38

Incident Energy (MeV)

64-Gd-145



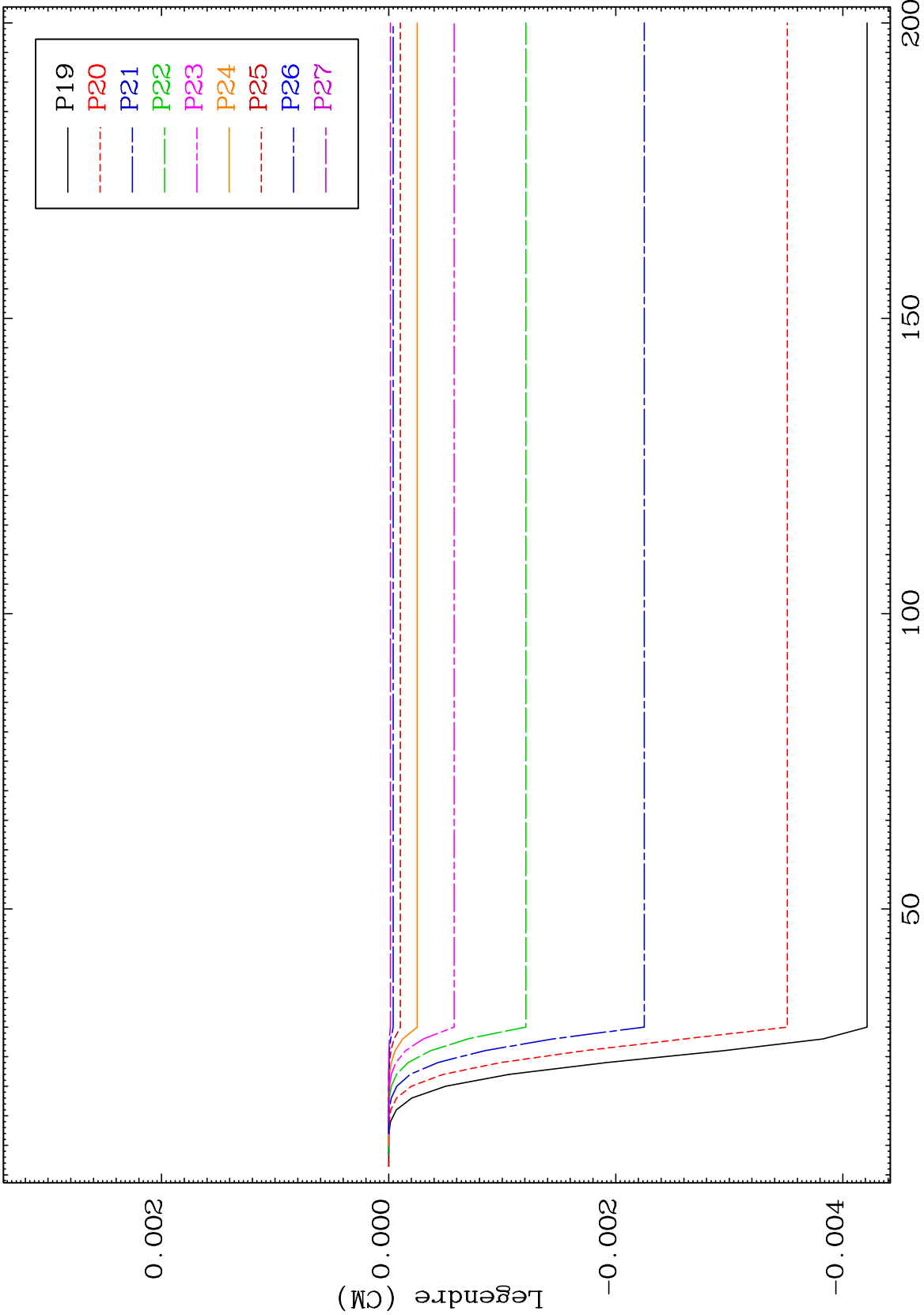


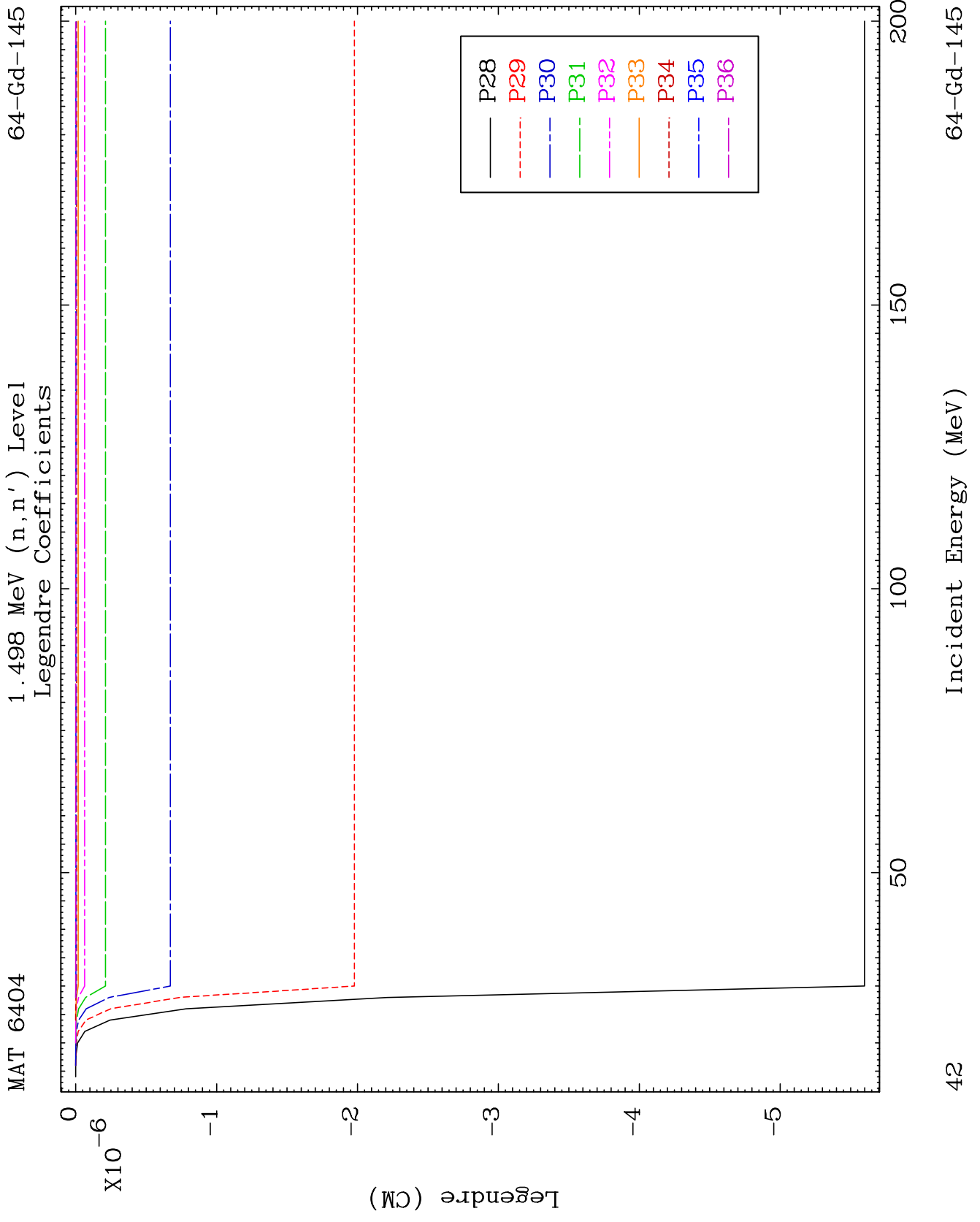


MAT 6404

1.498 MeV (n,n') Level Legendre Coefficients

64-Gd-145



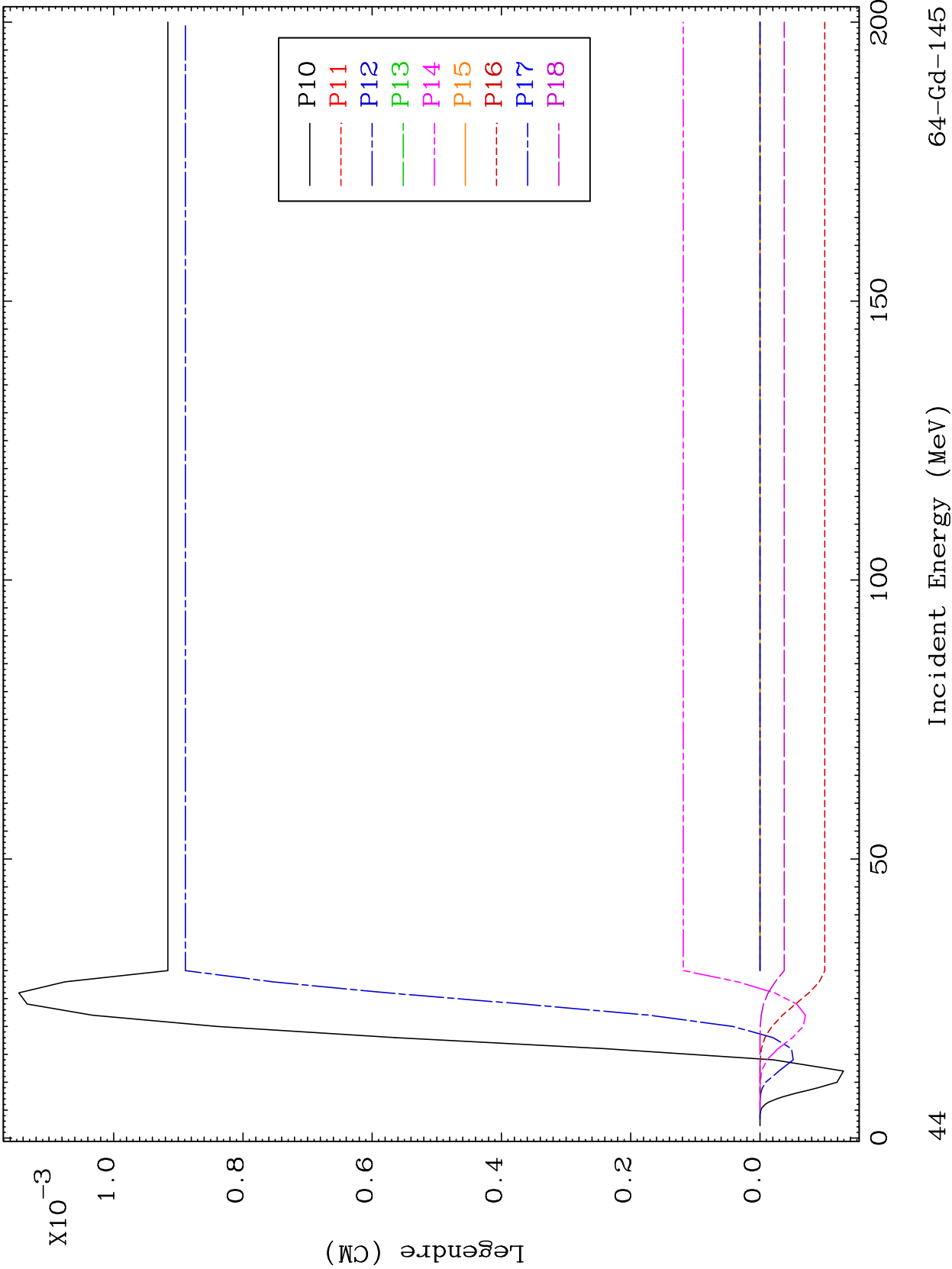




MAT 6404

1.525 MeV (n,n') Level  
Legendre Coefficients

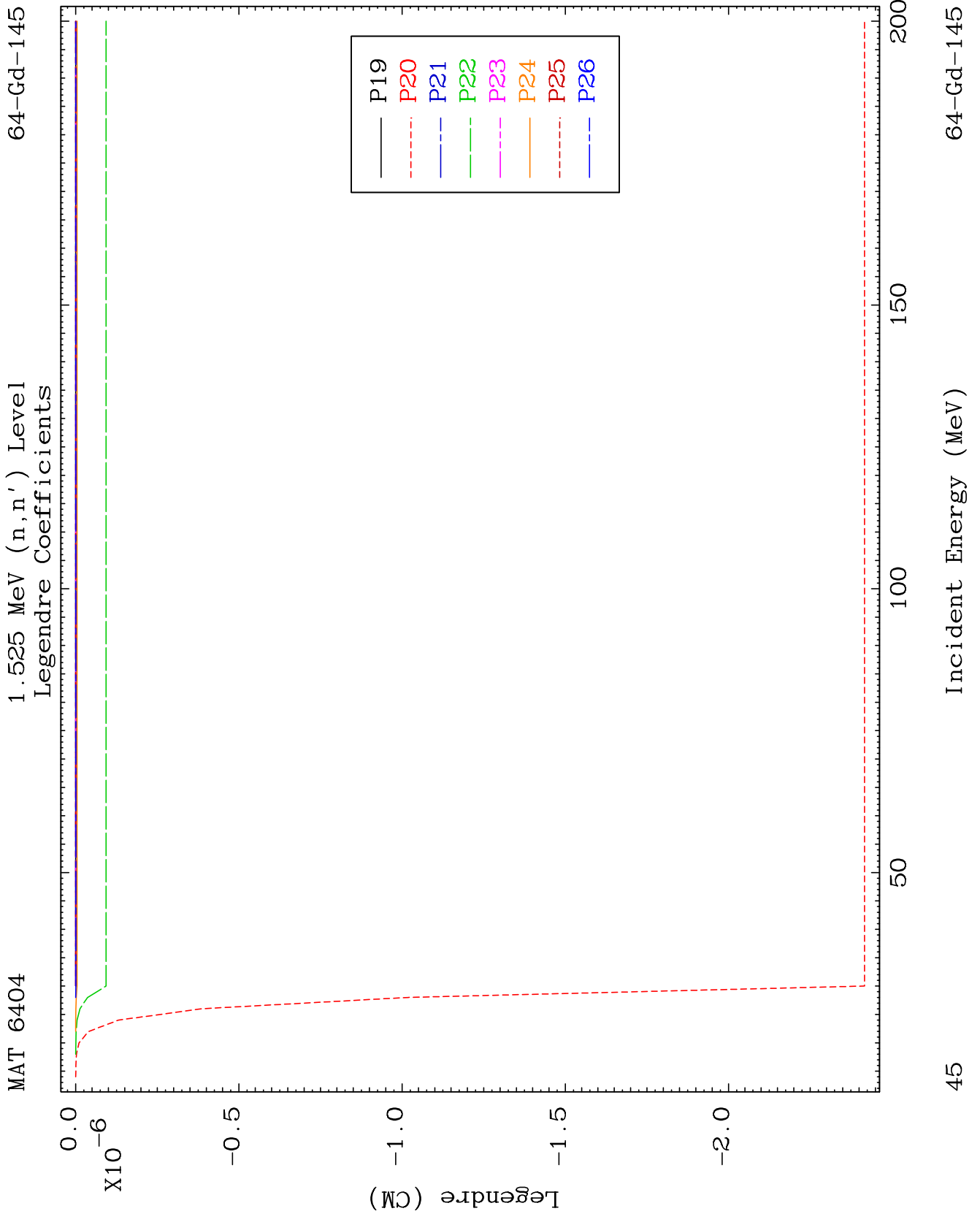
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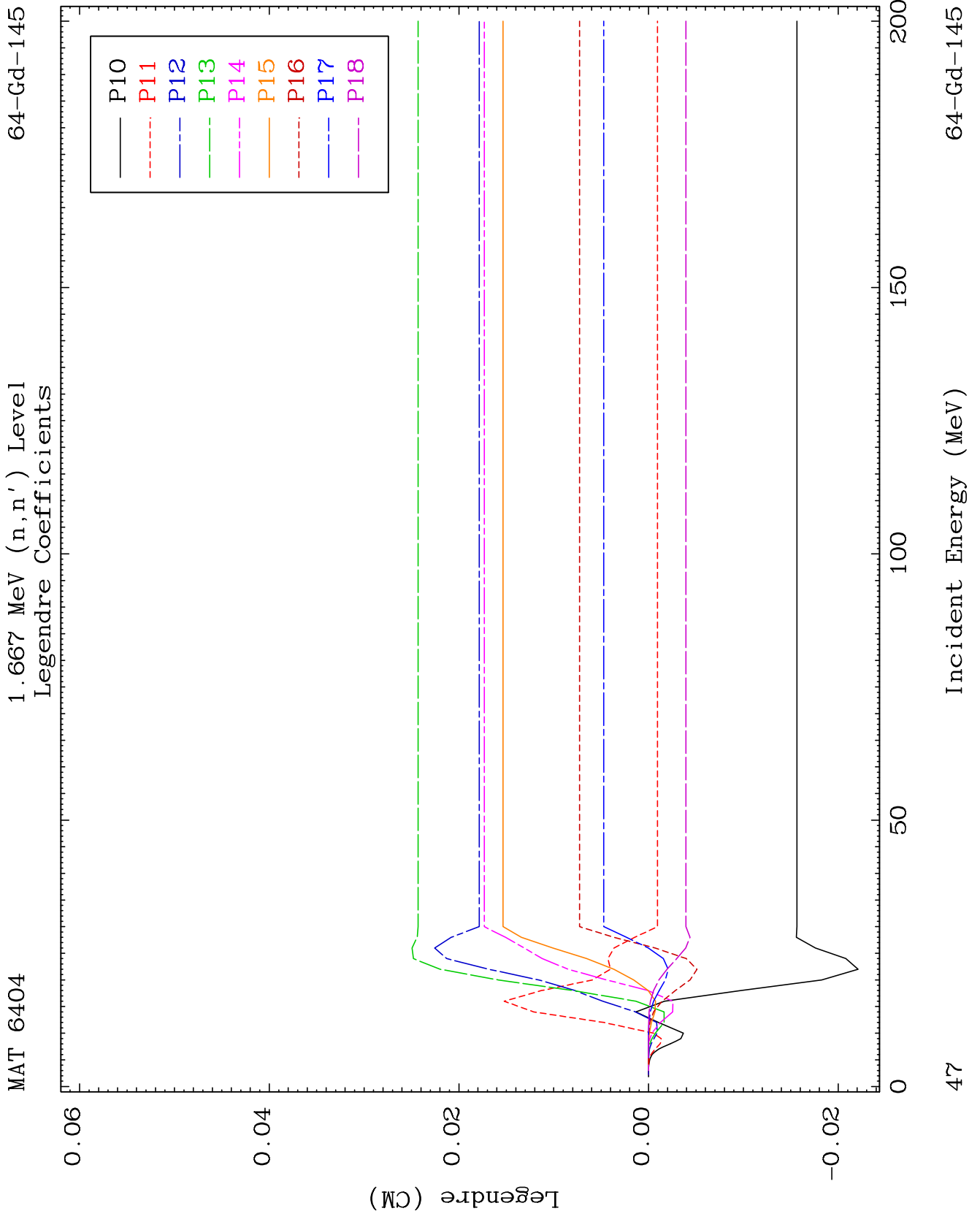
44

Incident Energy (MeV)

64-Gd-145





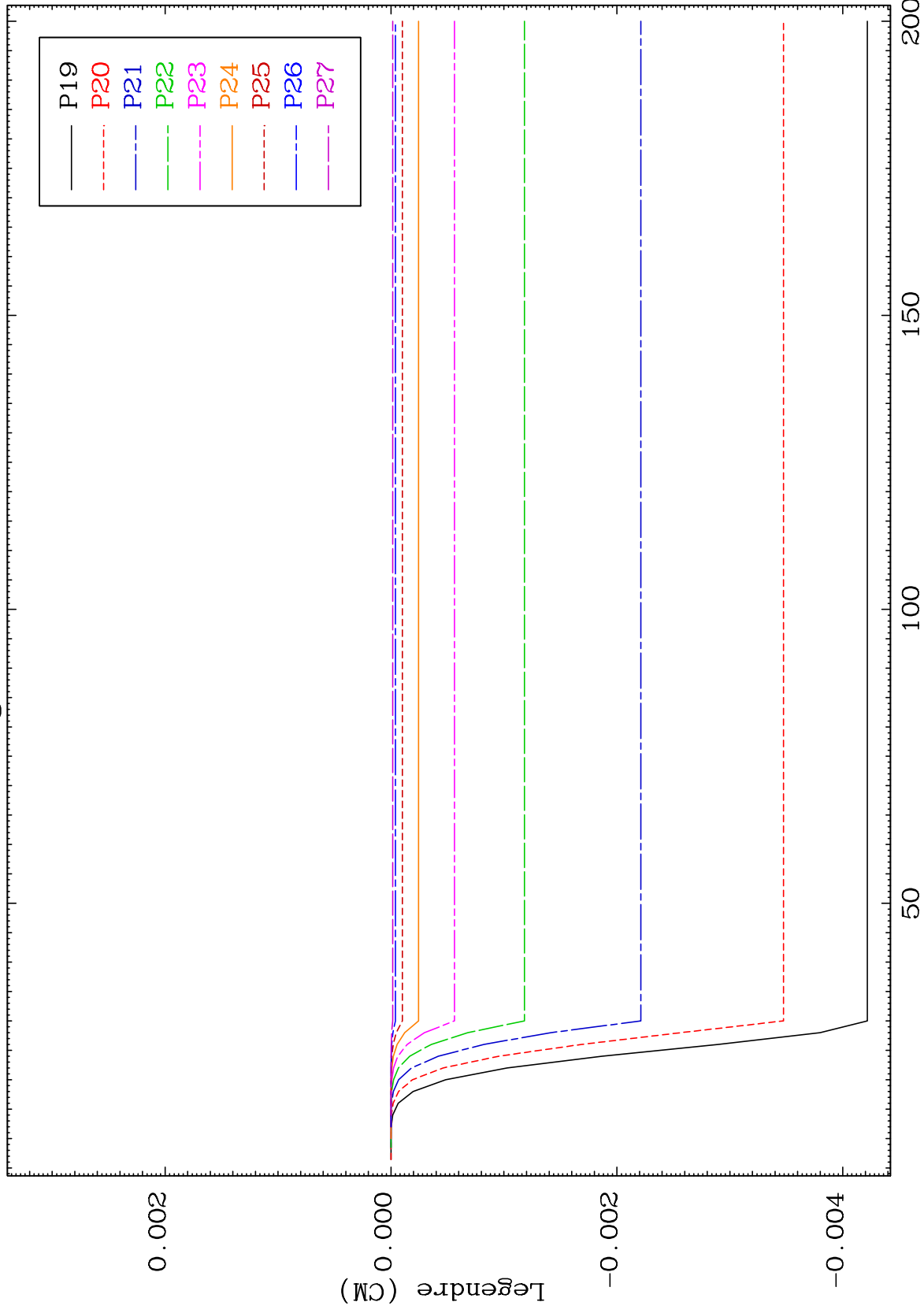




MAT 6404

1.667 MeV (n,n') Level  
Legendre Coefficients

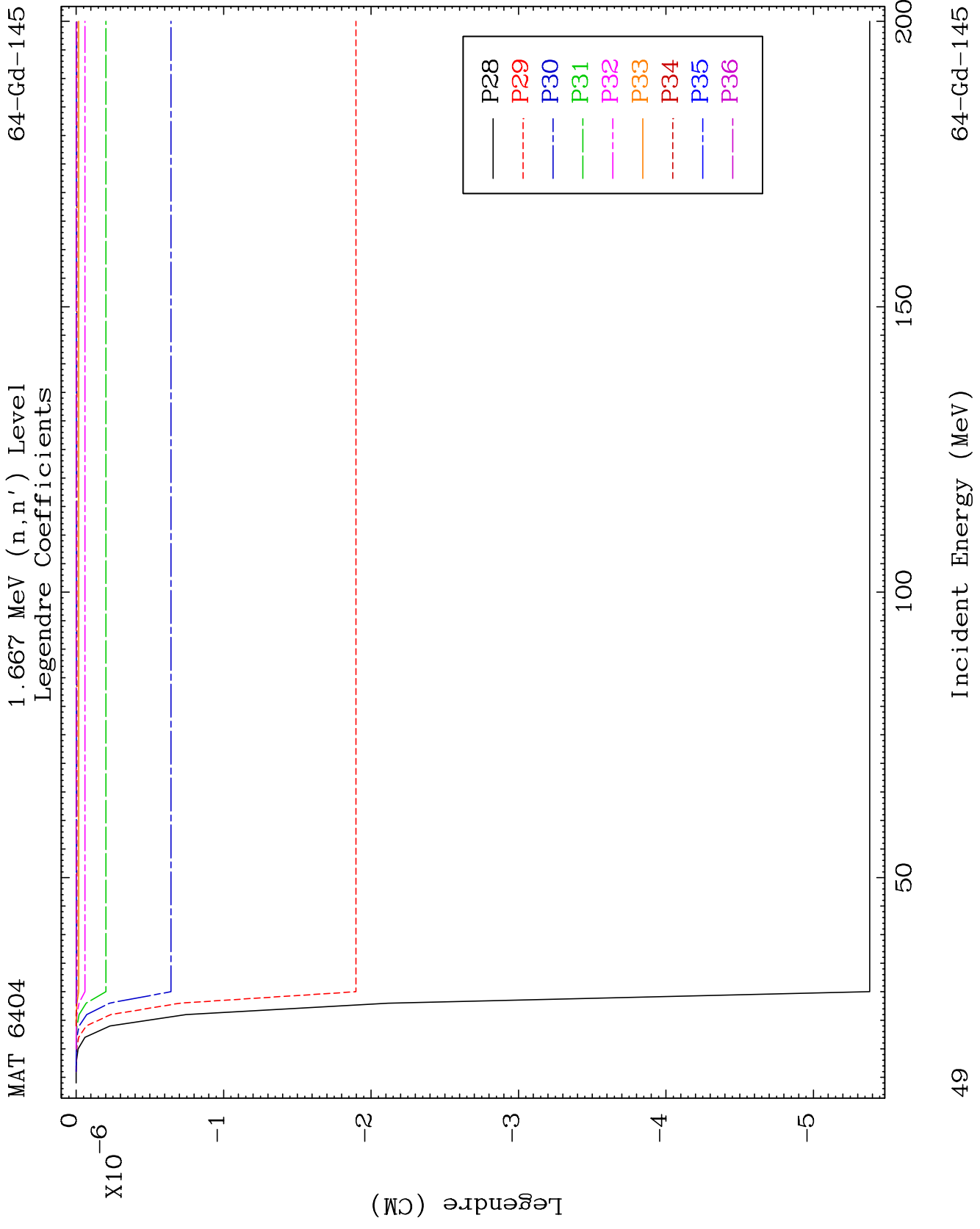
64-Gd-145



48

Incident Energy (MeV)

64-Gd-145

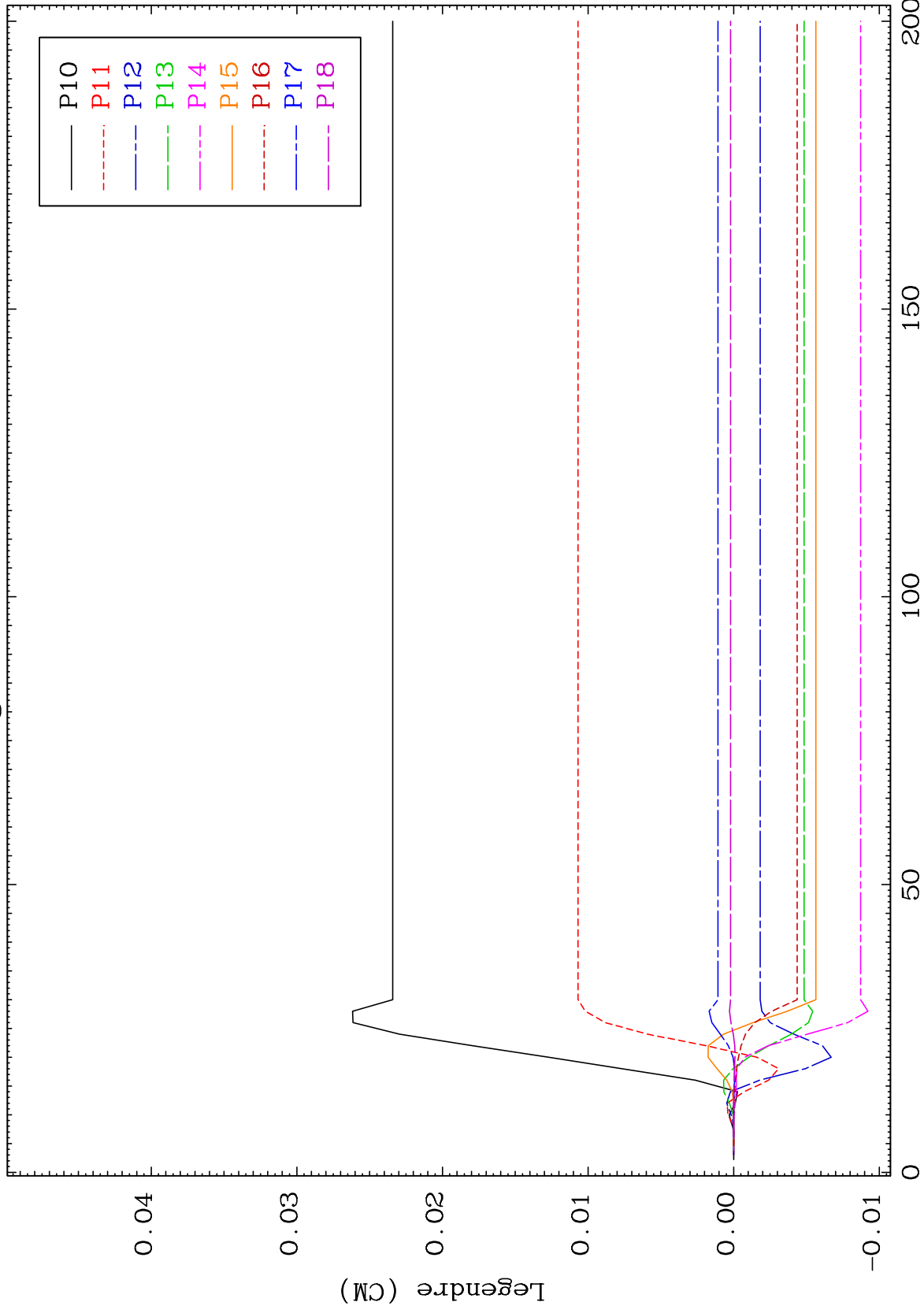




MAT 6404

1.684 MeV (n,n') Level  
Legendre Coefficients

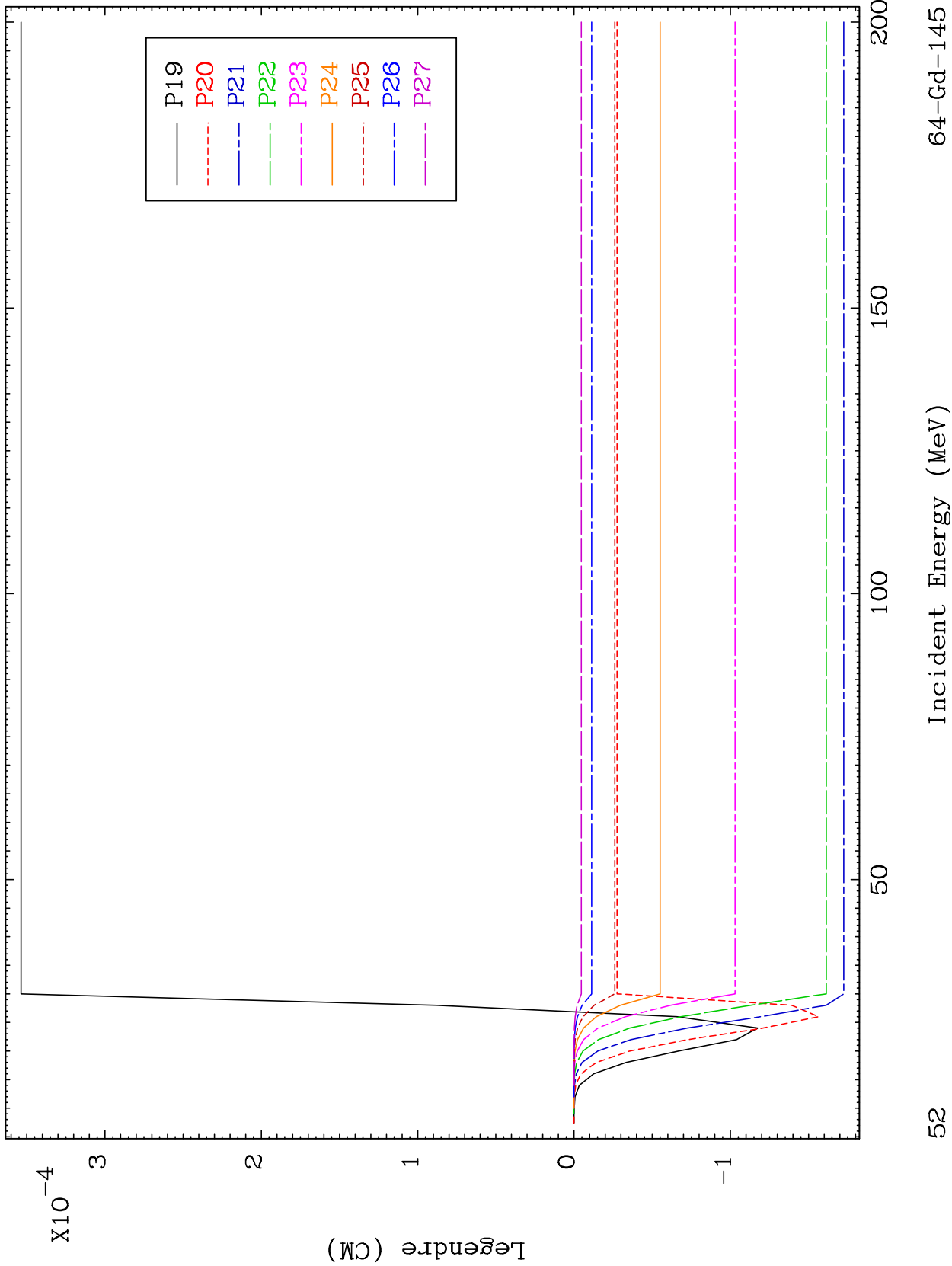
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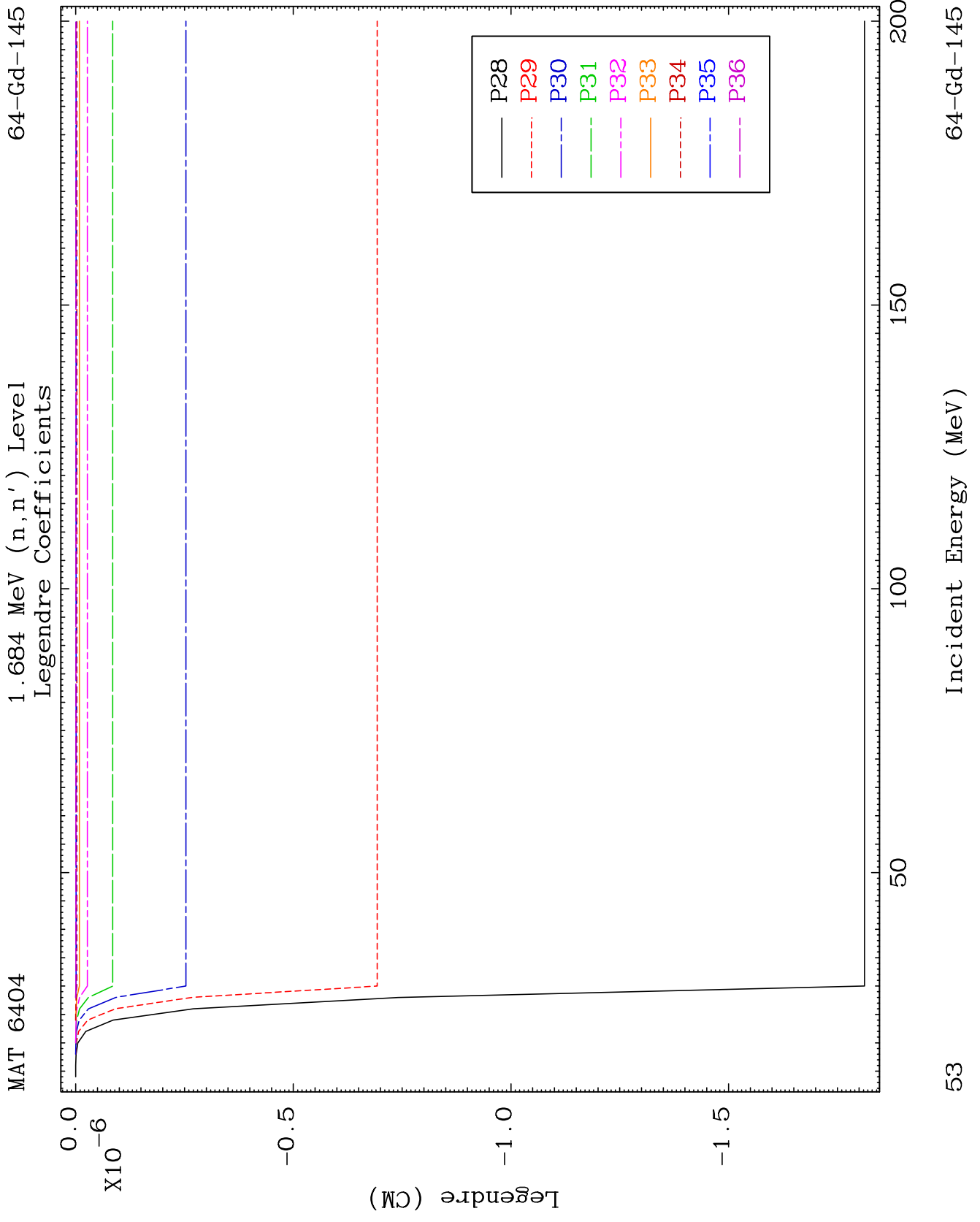


51

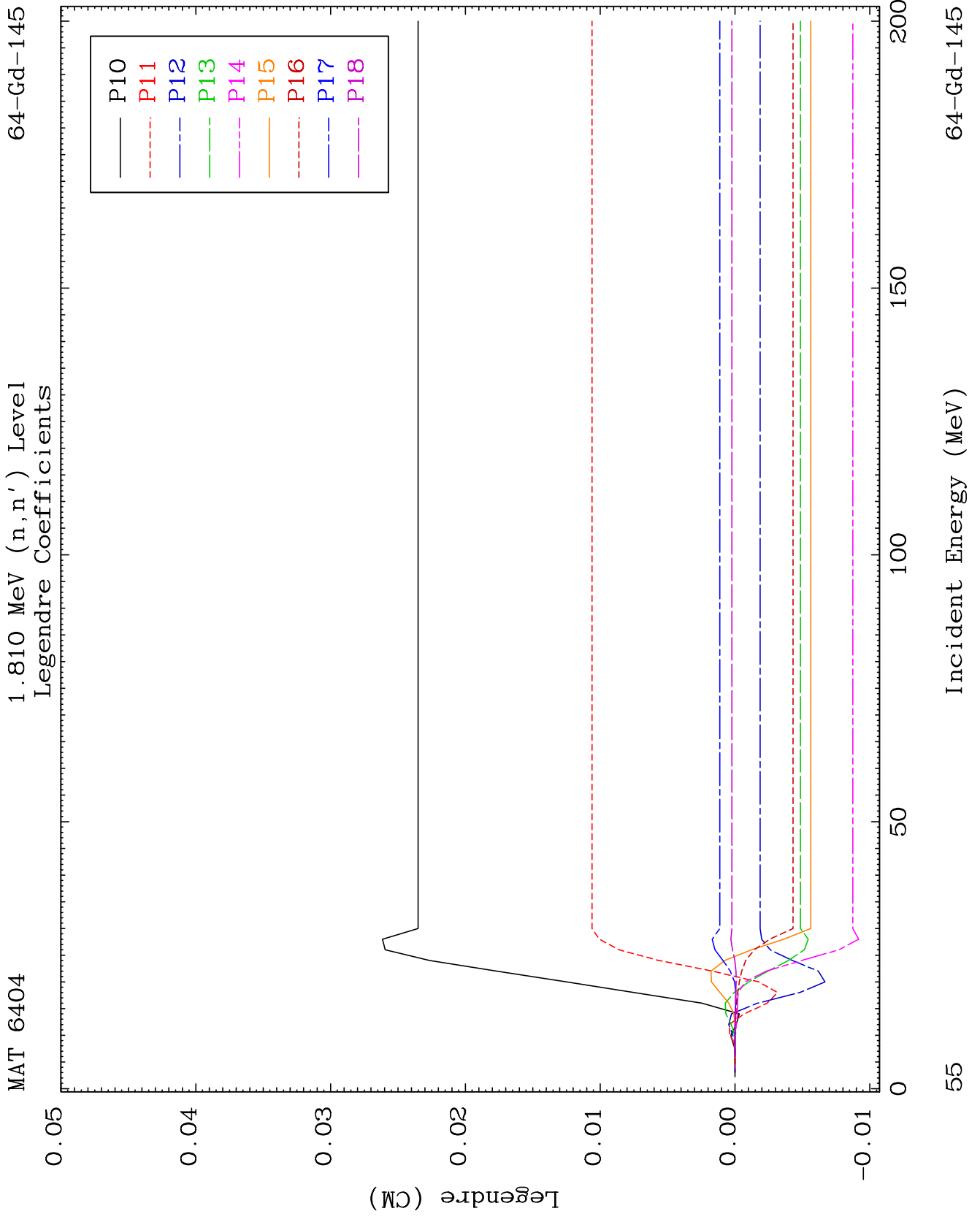
Incident Energy (MeV)

64-Gd-145

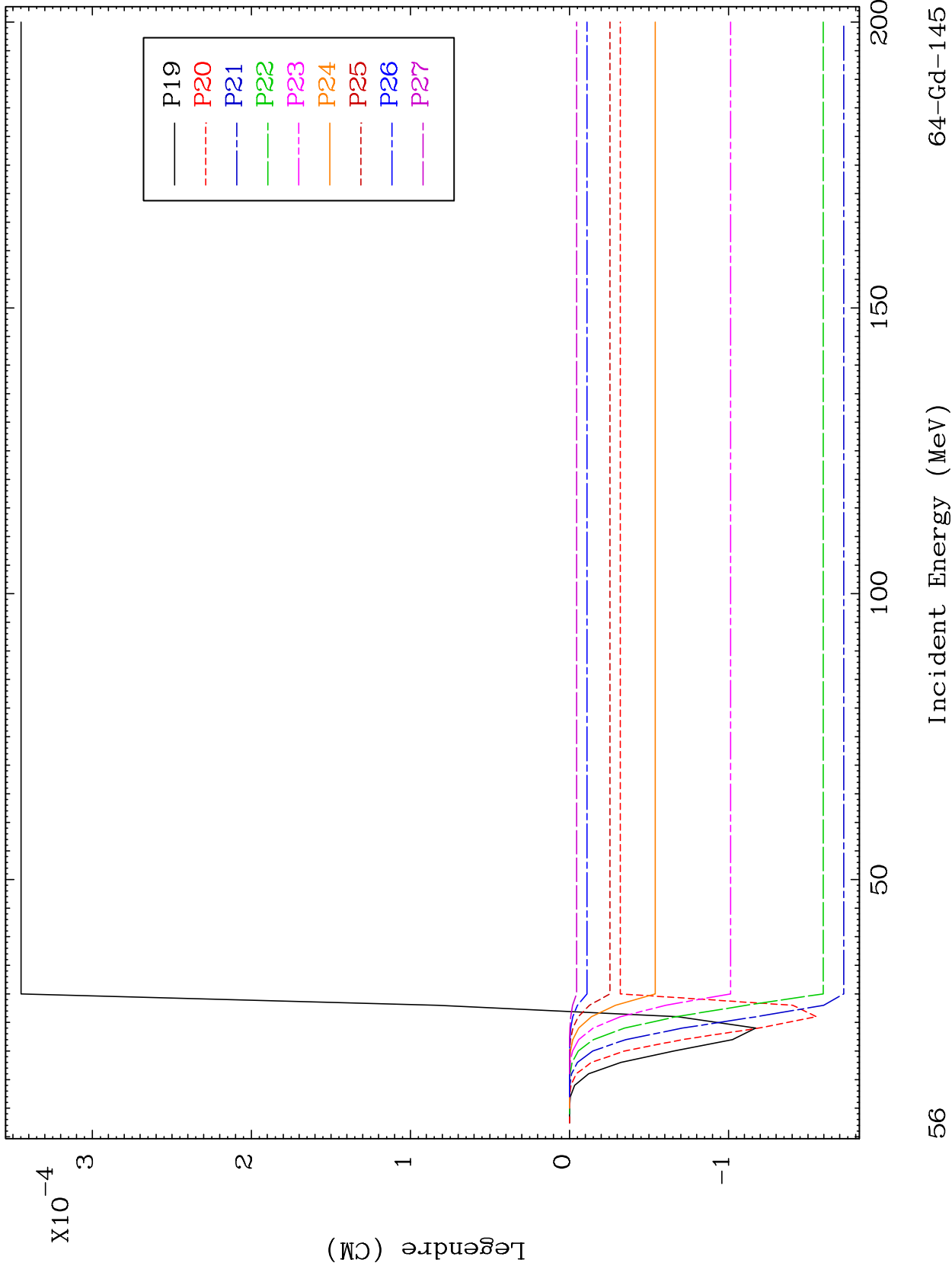


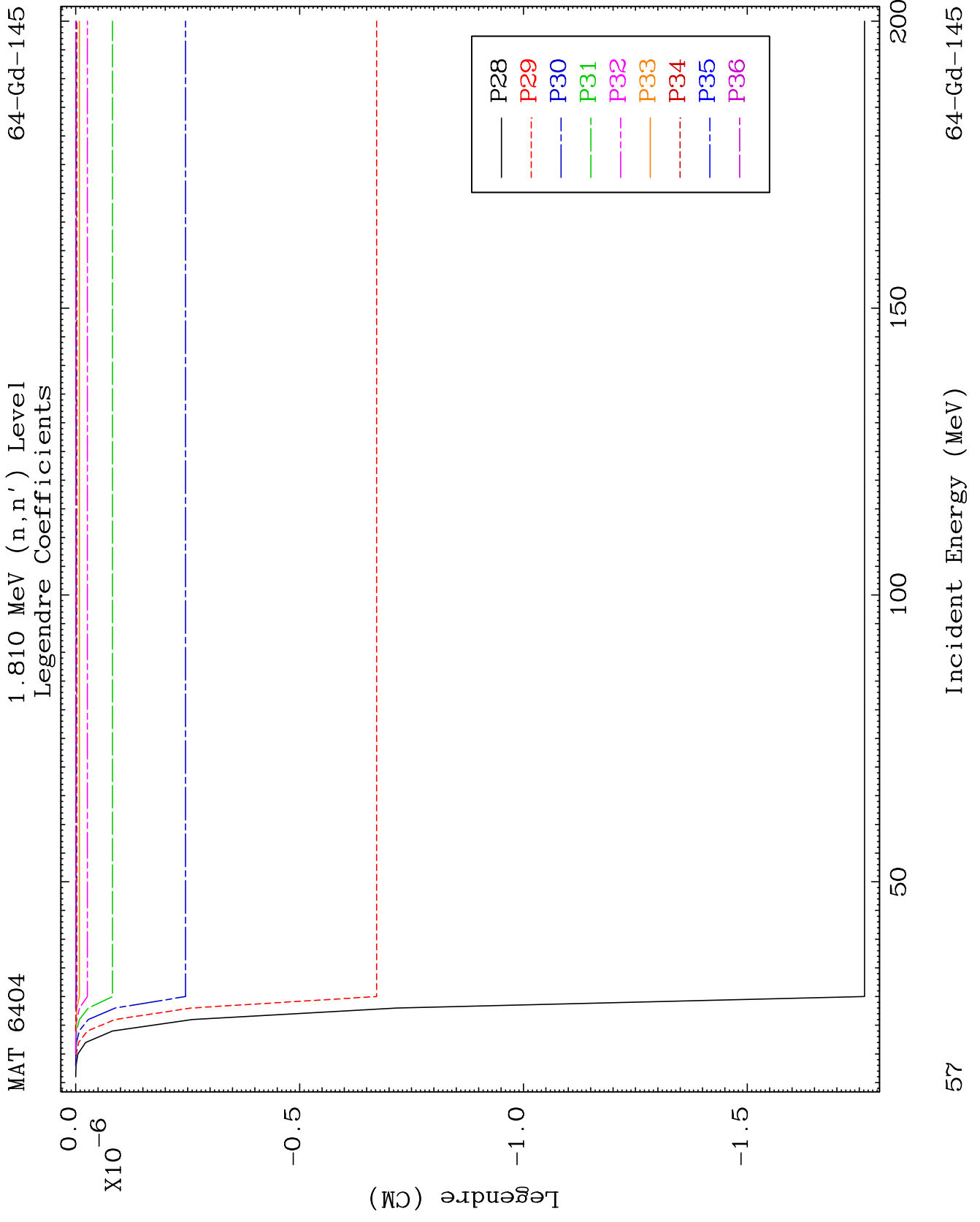












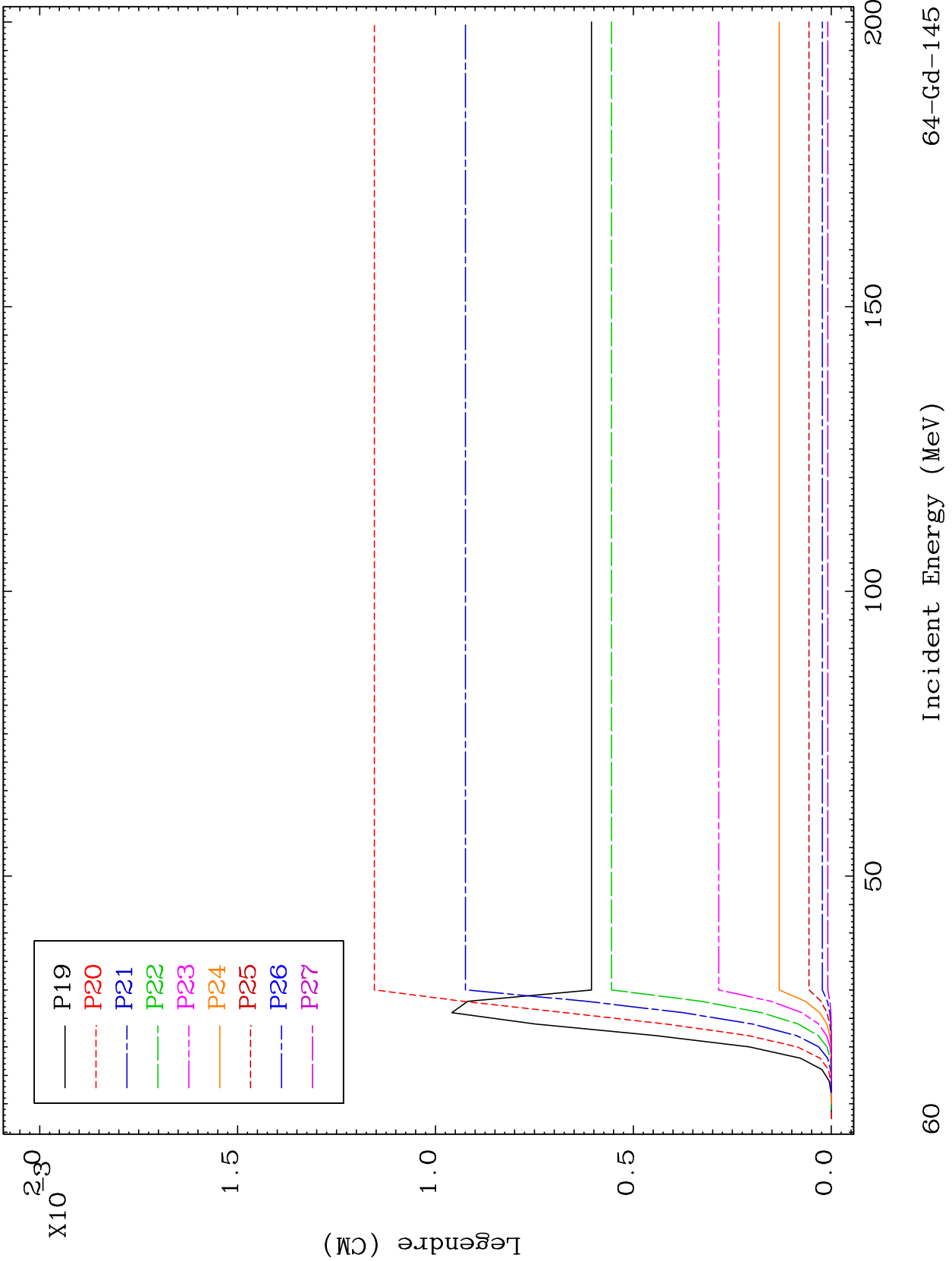




MAT 6404

2.182 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



60

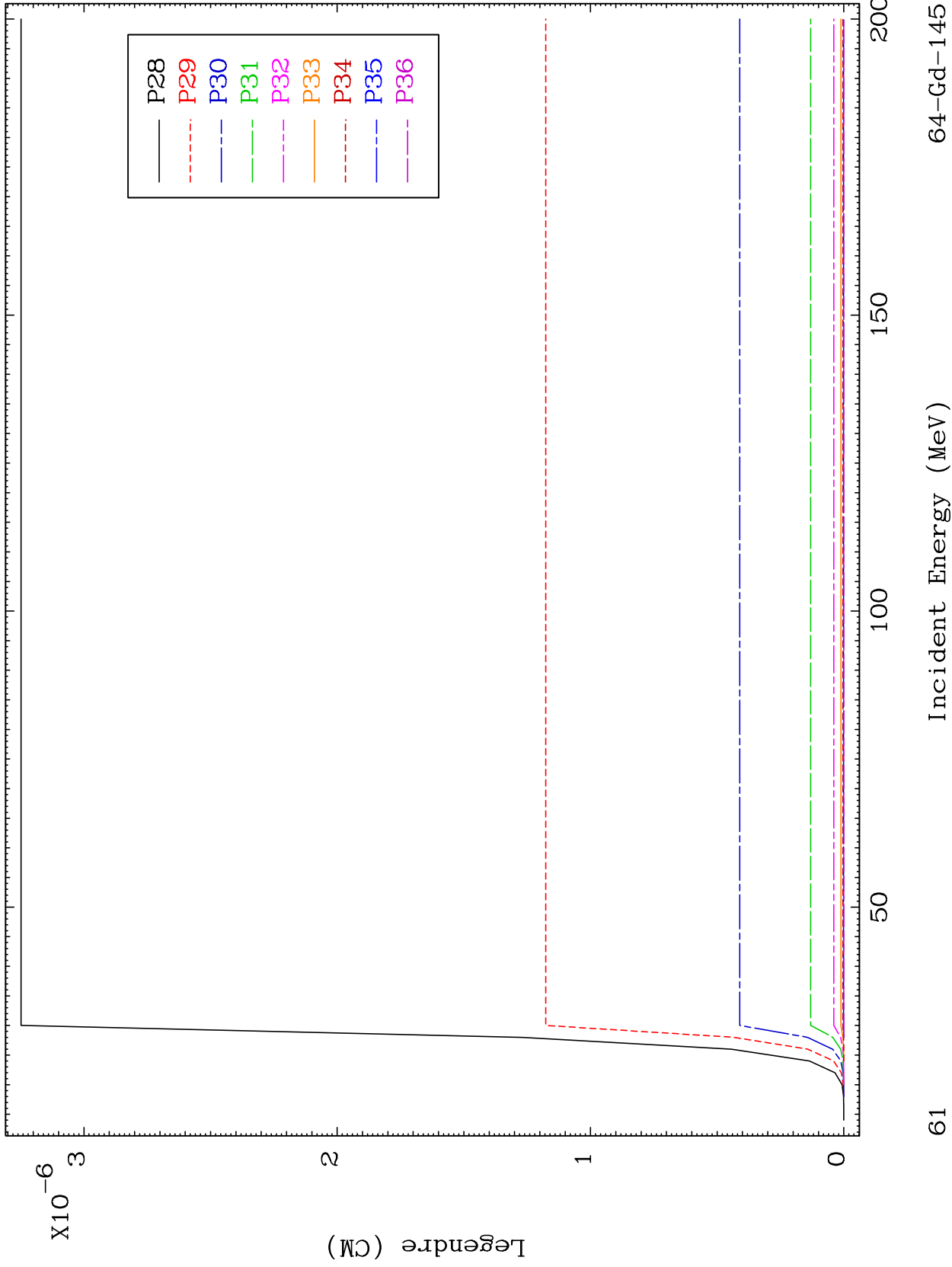
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.182 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



61

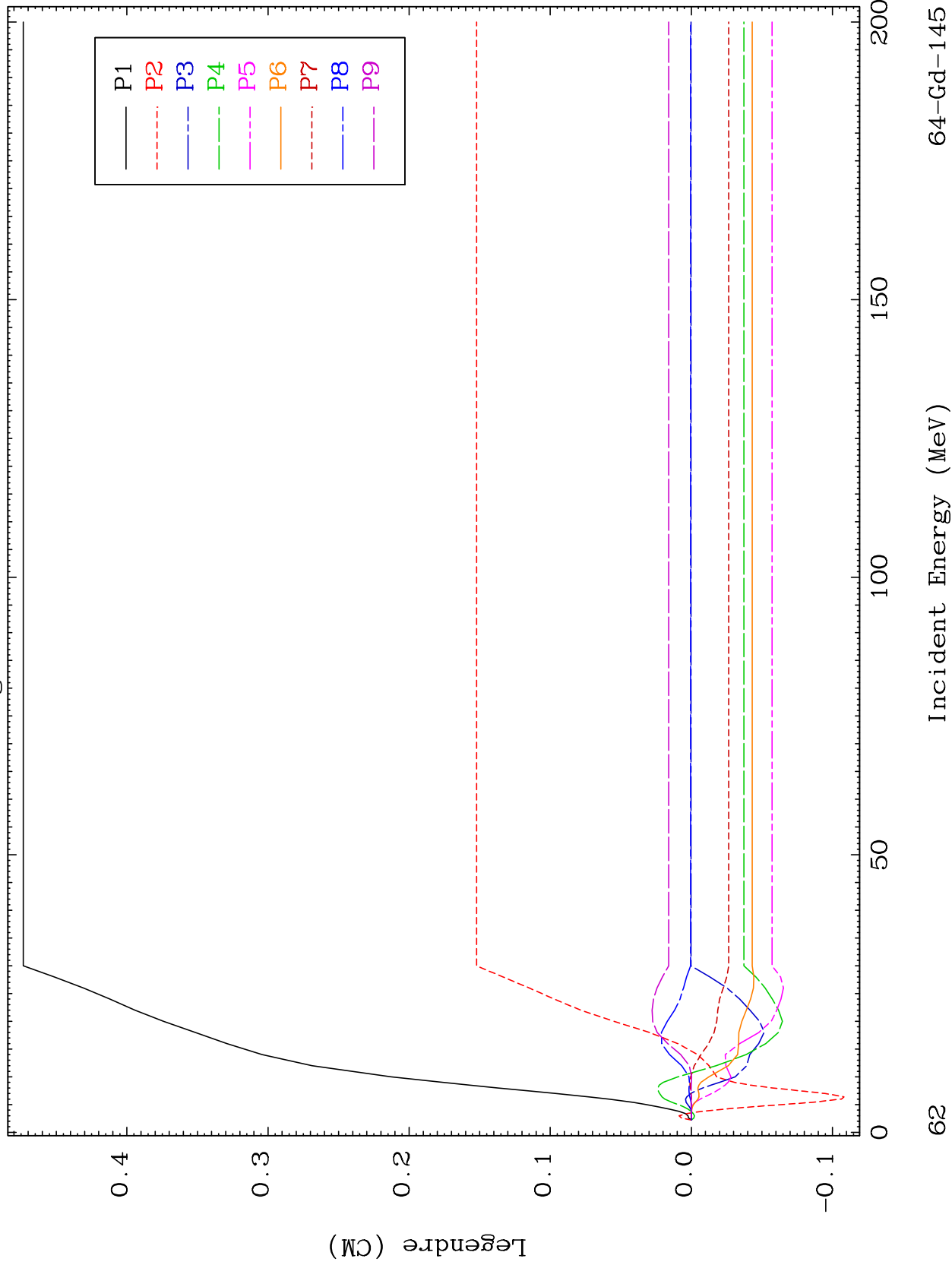
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.196 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



64-Gd-145

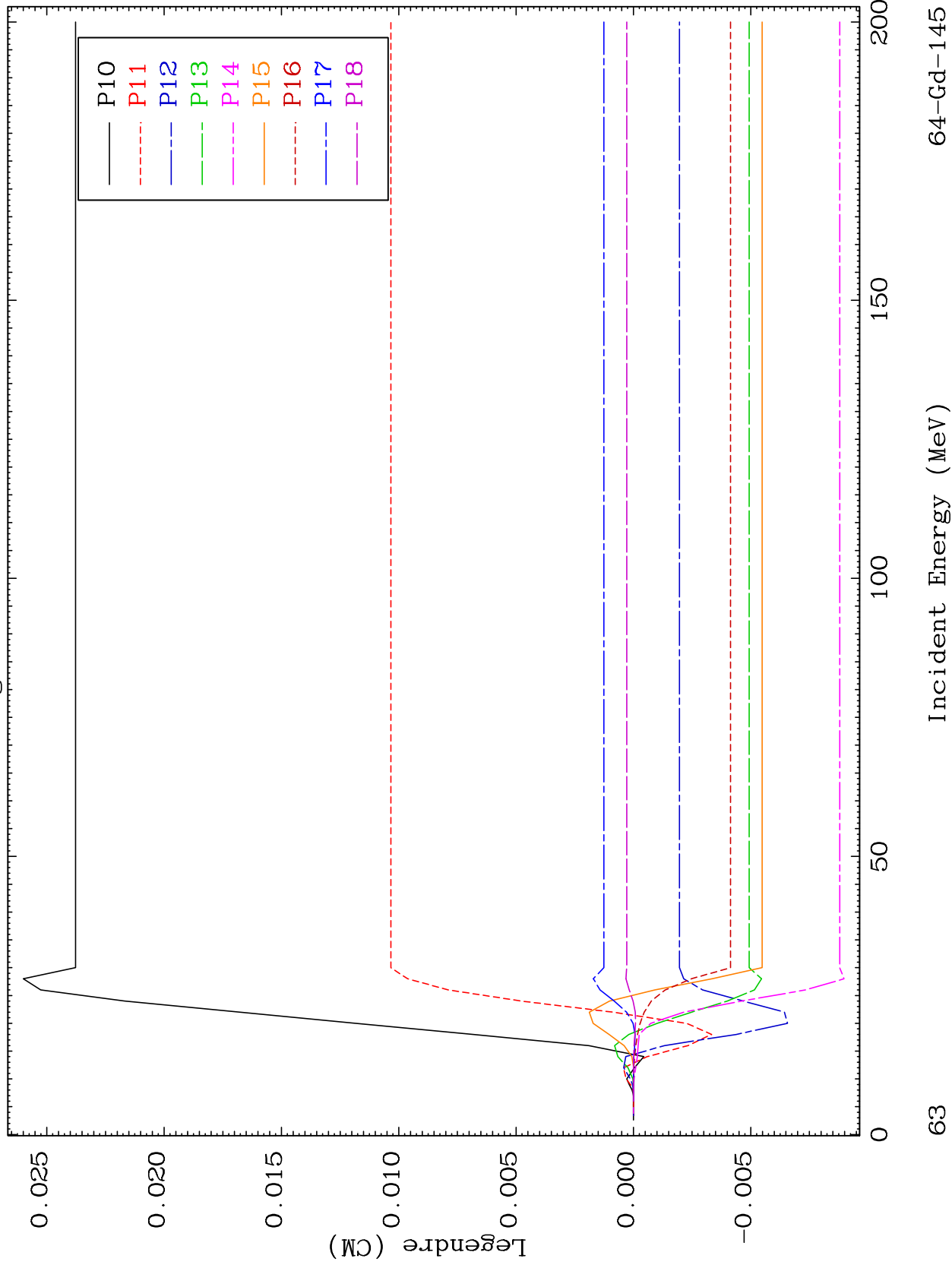
Incident Energy (MeV)

62

MAT 6404

2.196 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



63

Incident Energy (MeV)

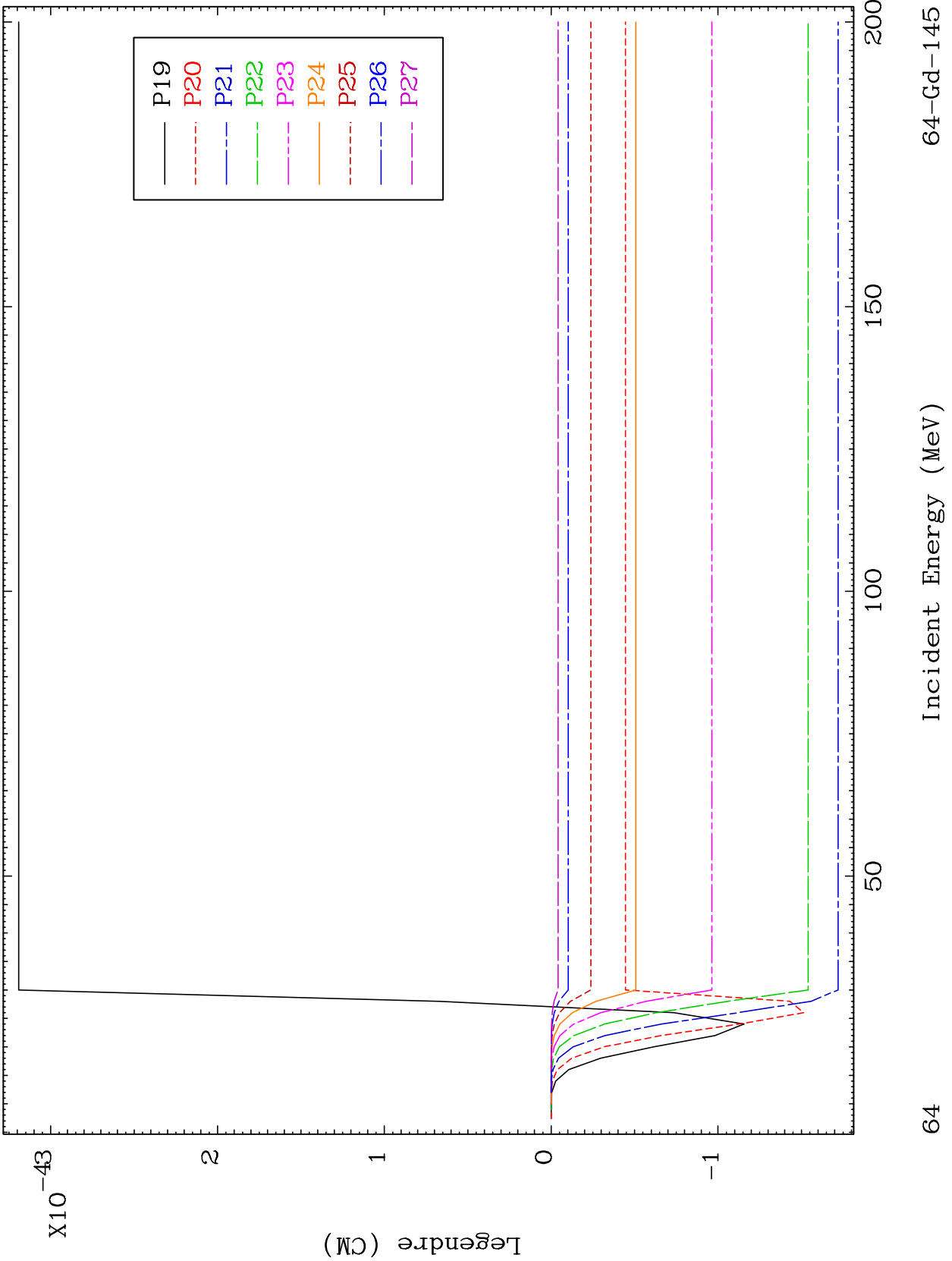
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MAT 6404

2.196 MeV (n, n') Level  
Legendre Coefficients

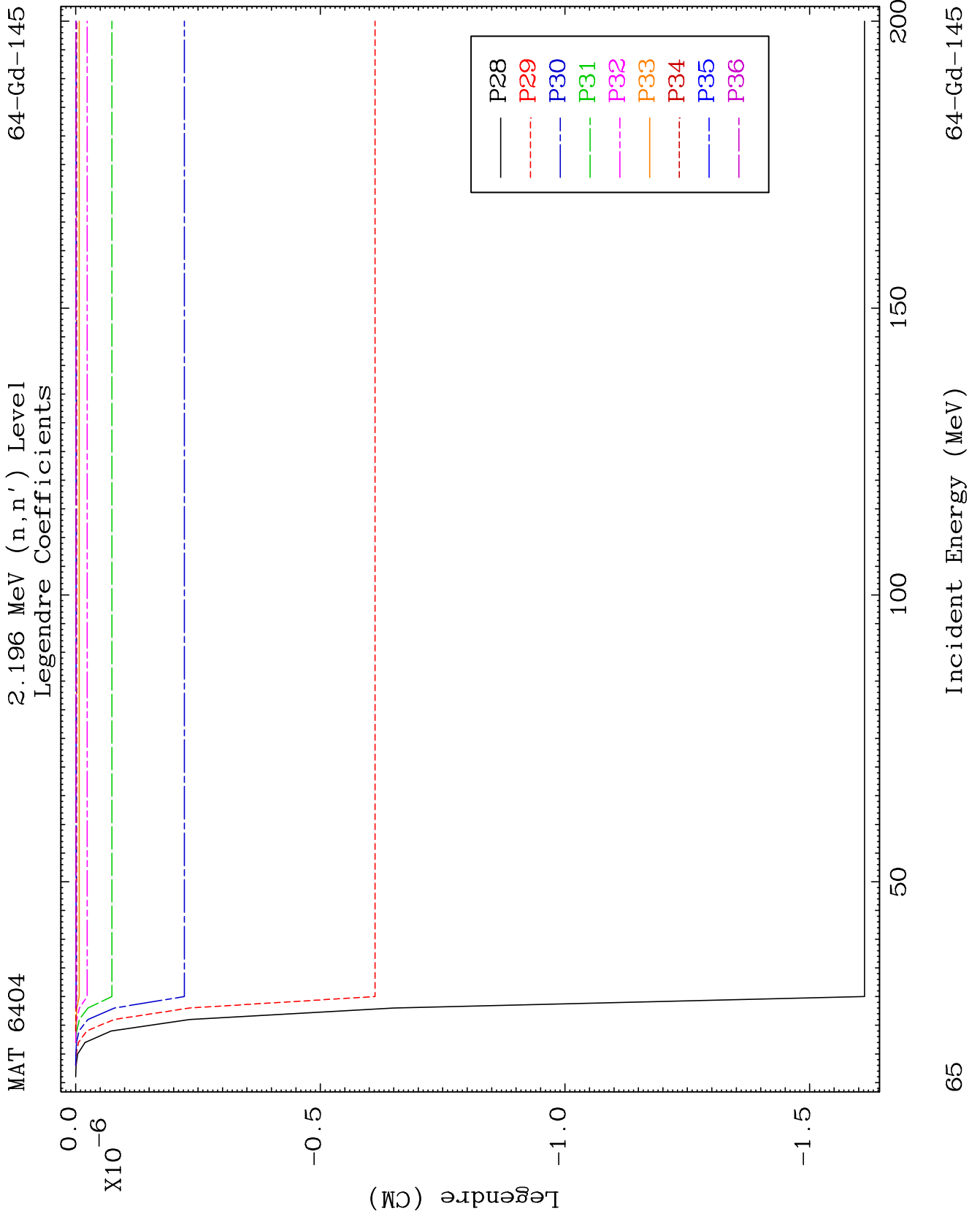
64-Gd-145



64

Incident Energy (MeV)

64-Gd-145

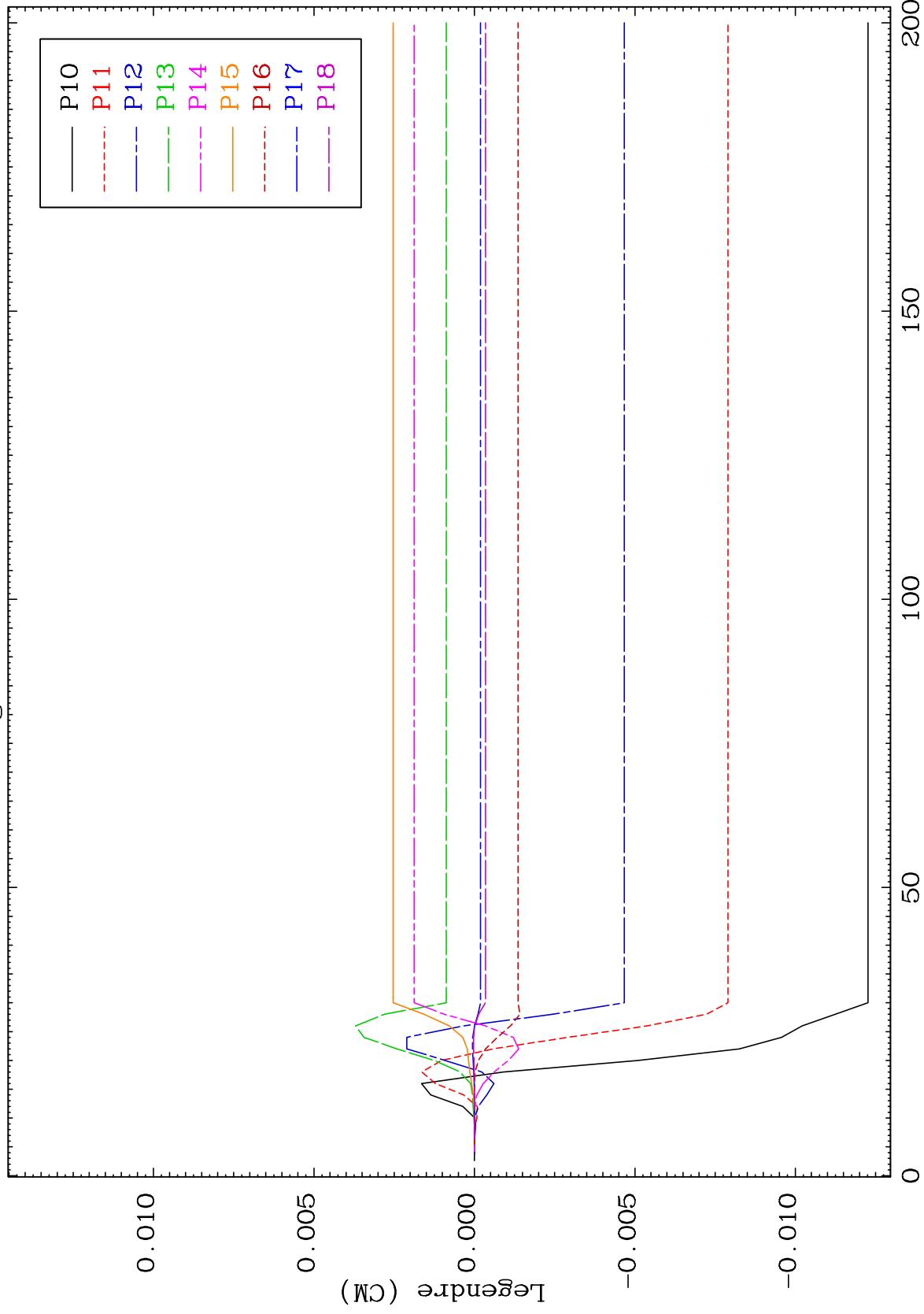




MAT 6404

2.200 MeV (n,n') Level  
Legendre Coefficients

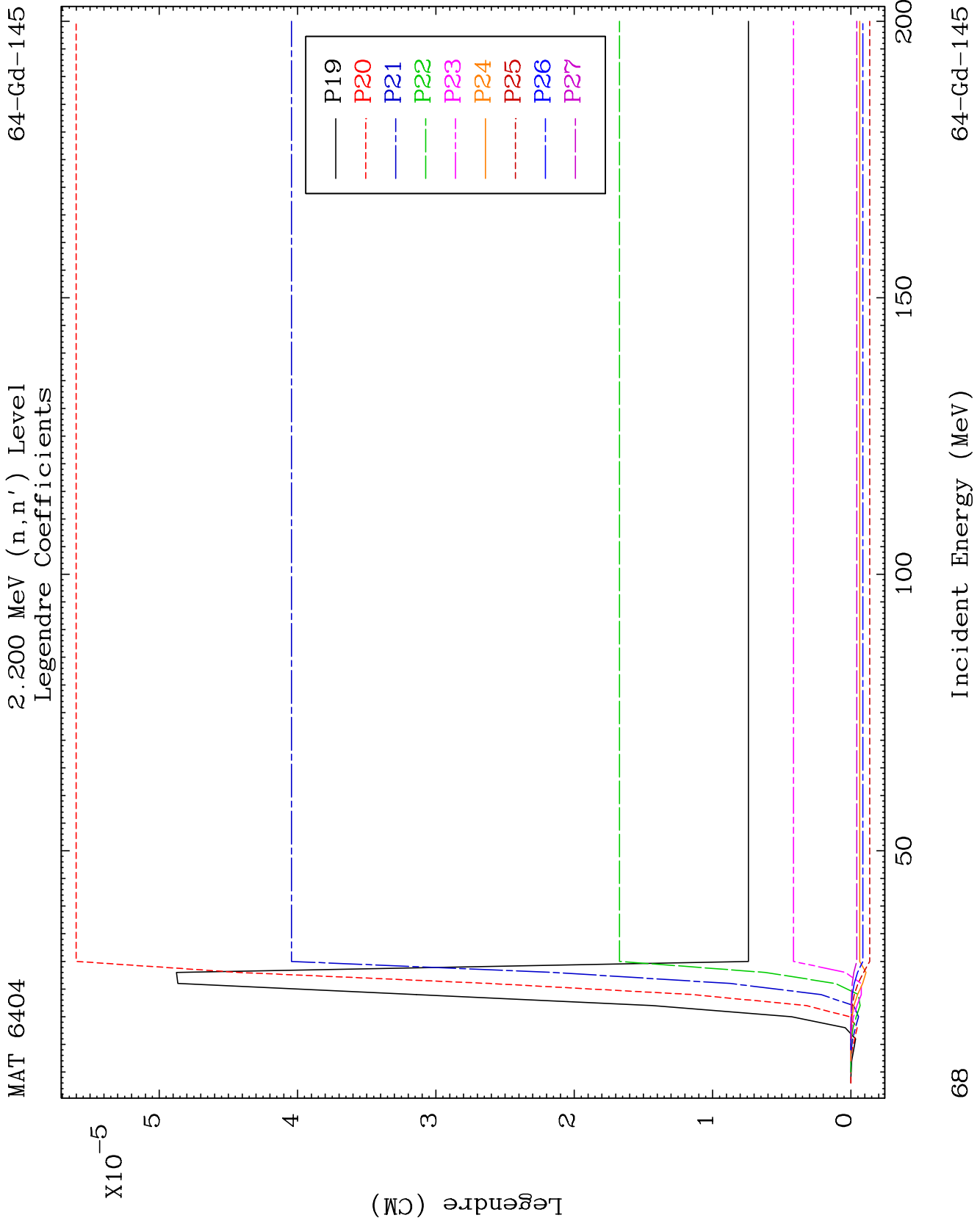
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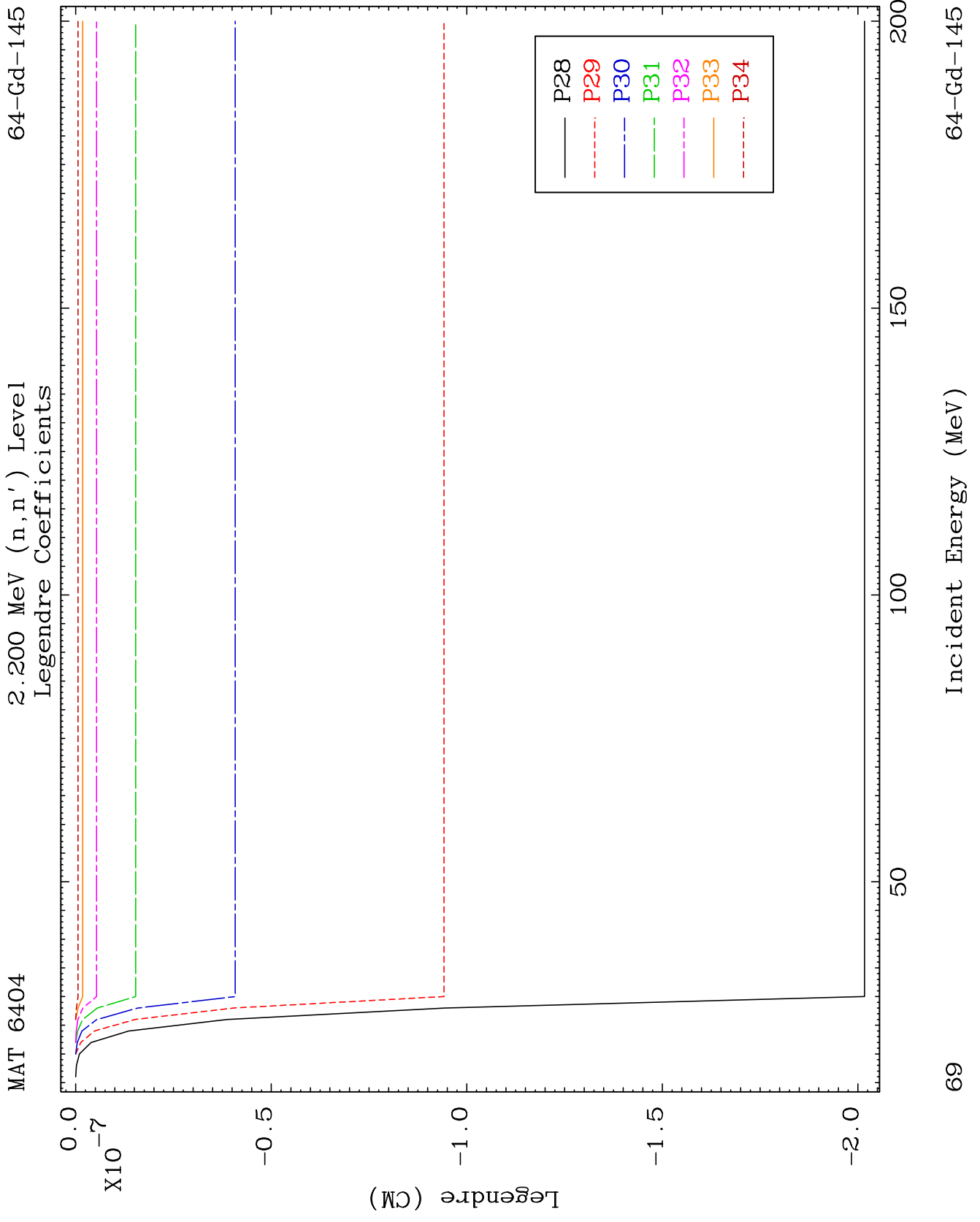


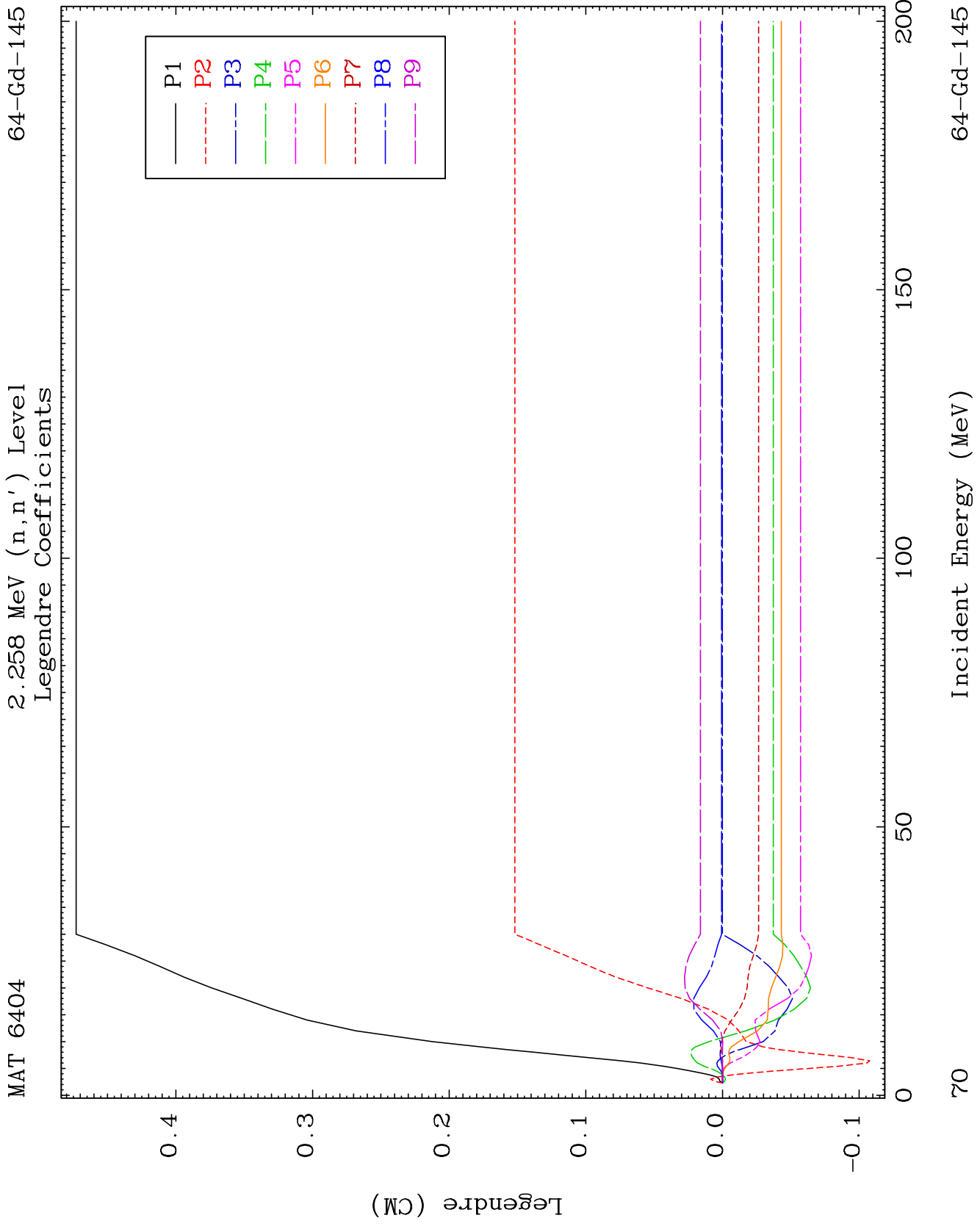
67

Incident Energy (MeV)

64-Gd-145



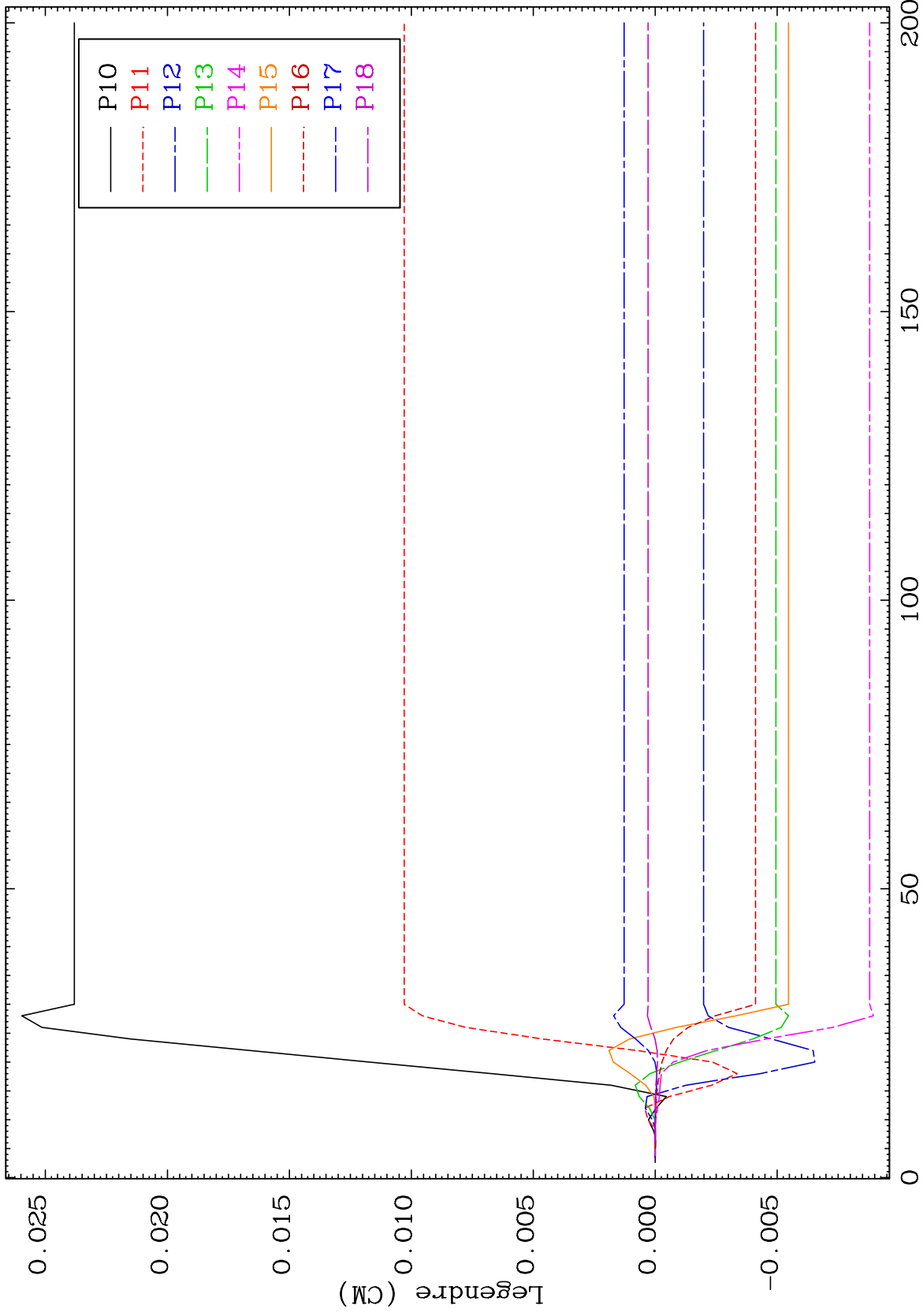




MAT 6404

2.258 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



71

Incident Energy (MeV)

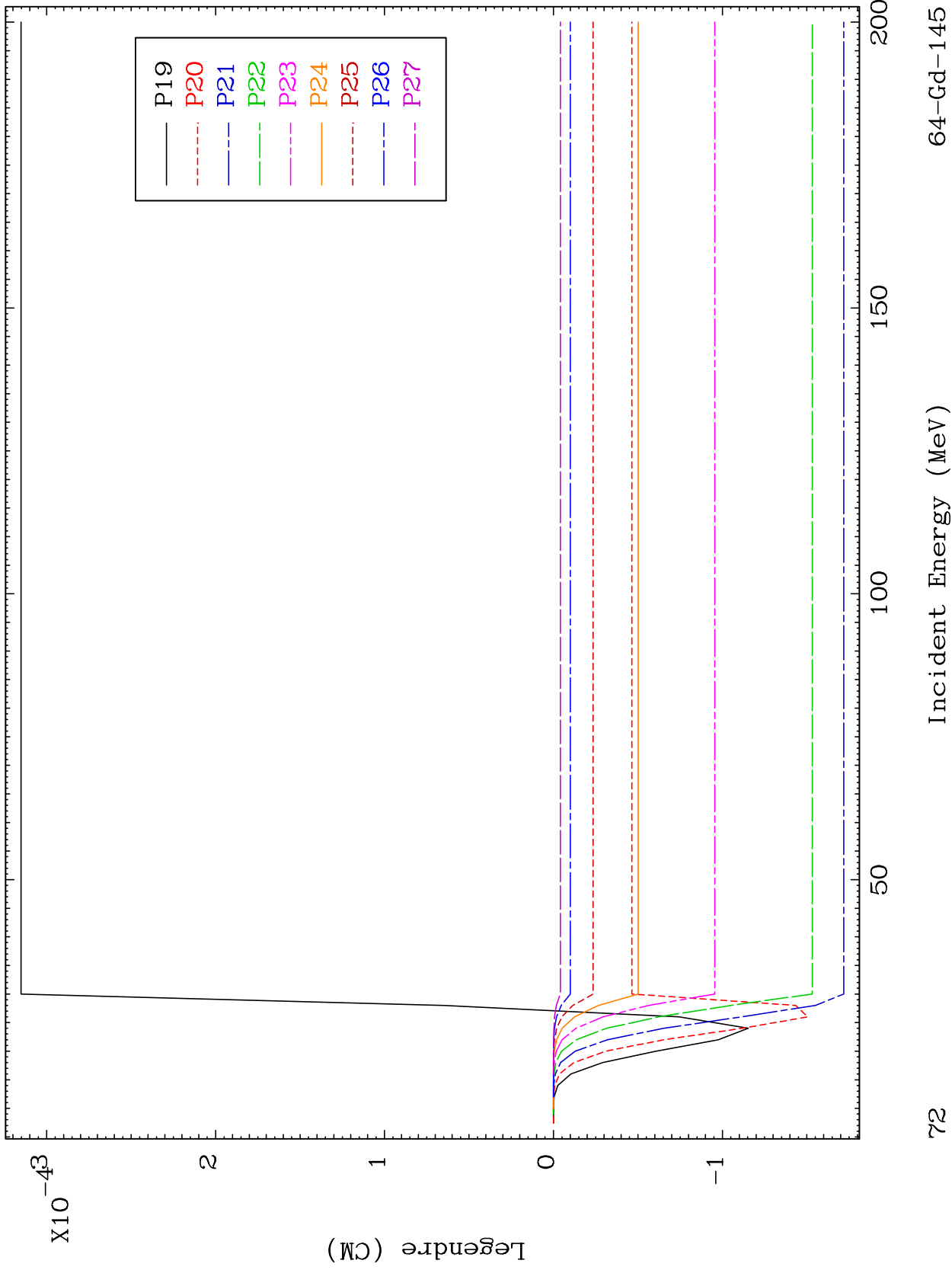
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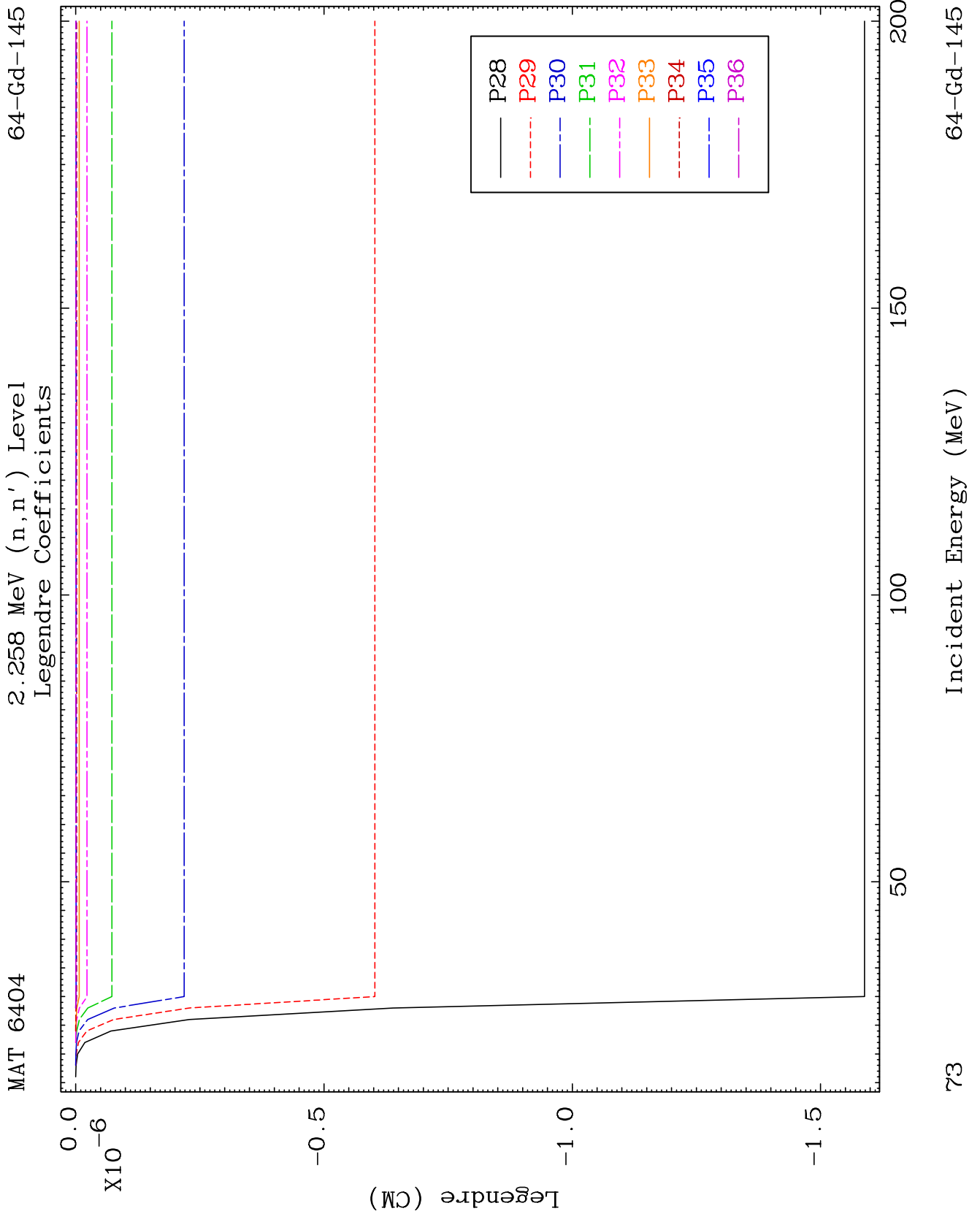


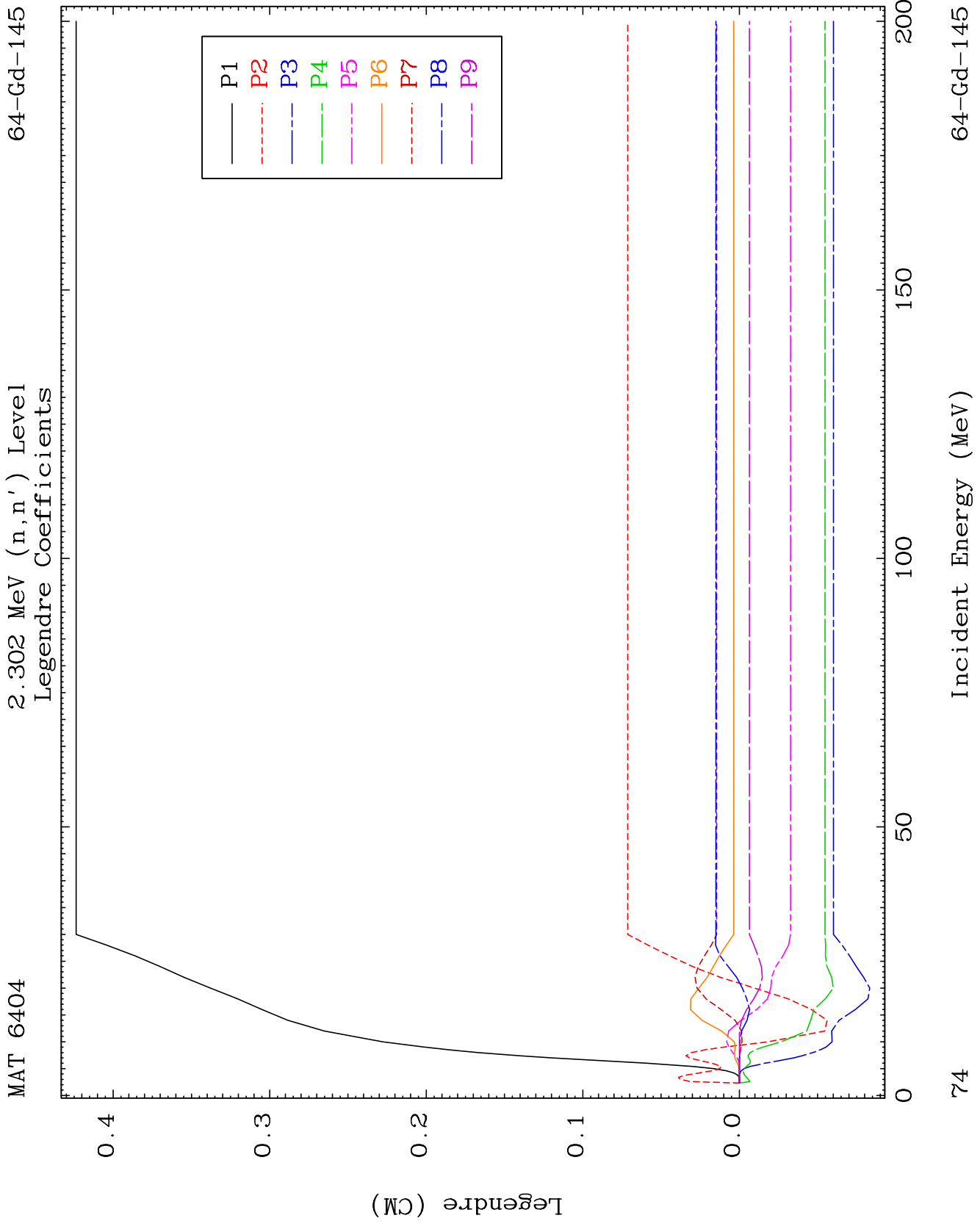
MAT 6404

2.258 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



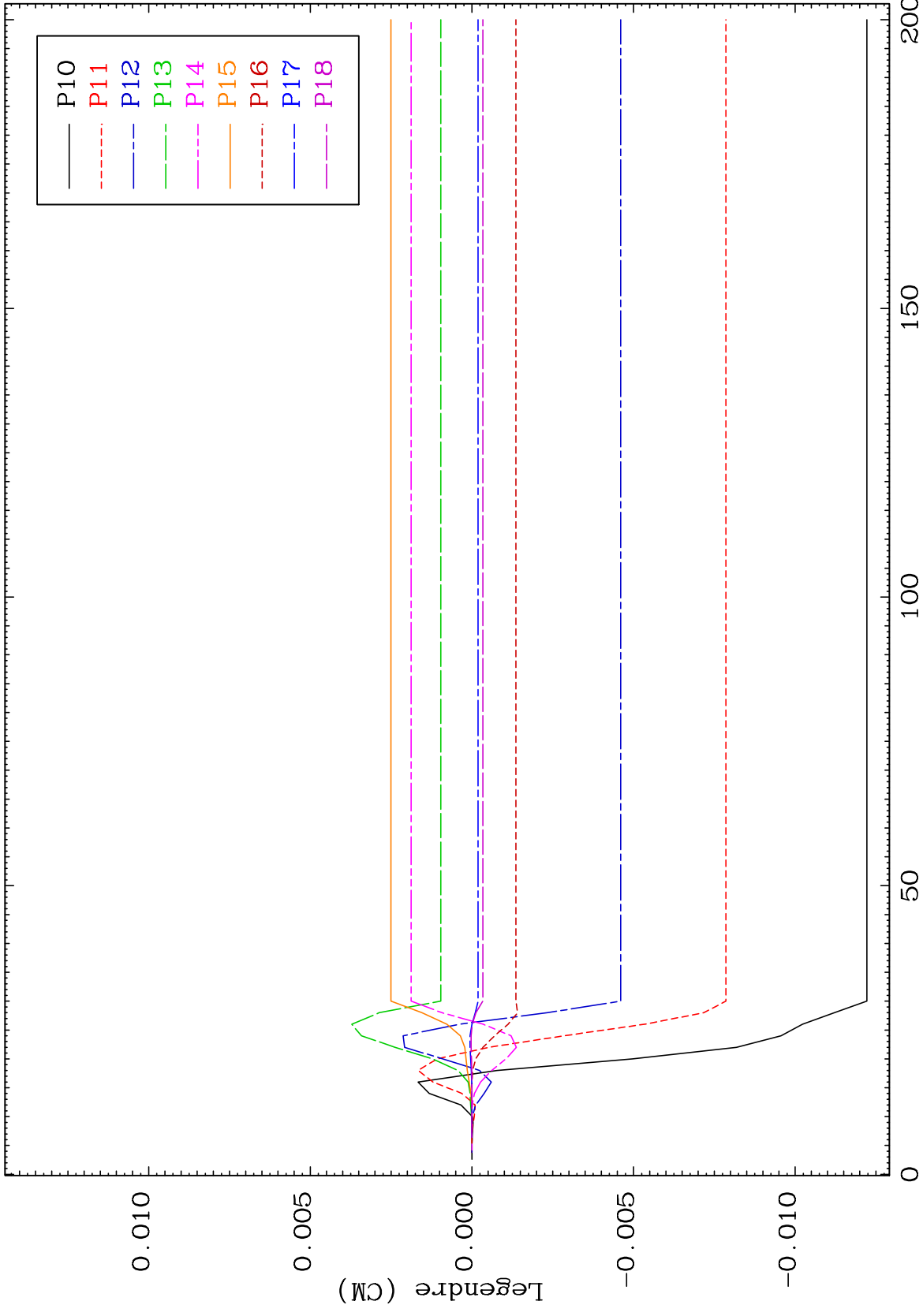




MAT 6404

2.302 MeV (n,n') Level  
Legendre Coefficients

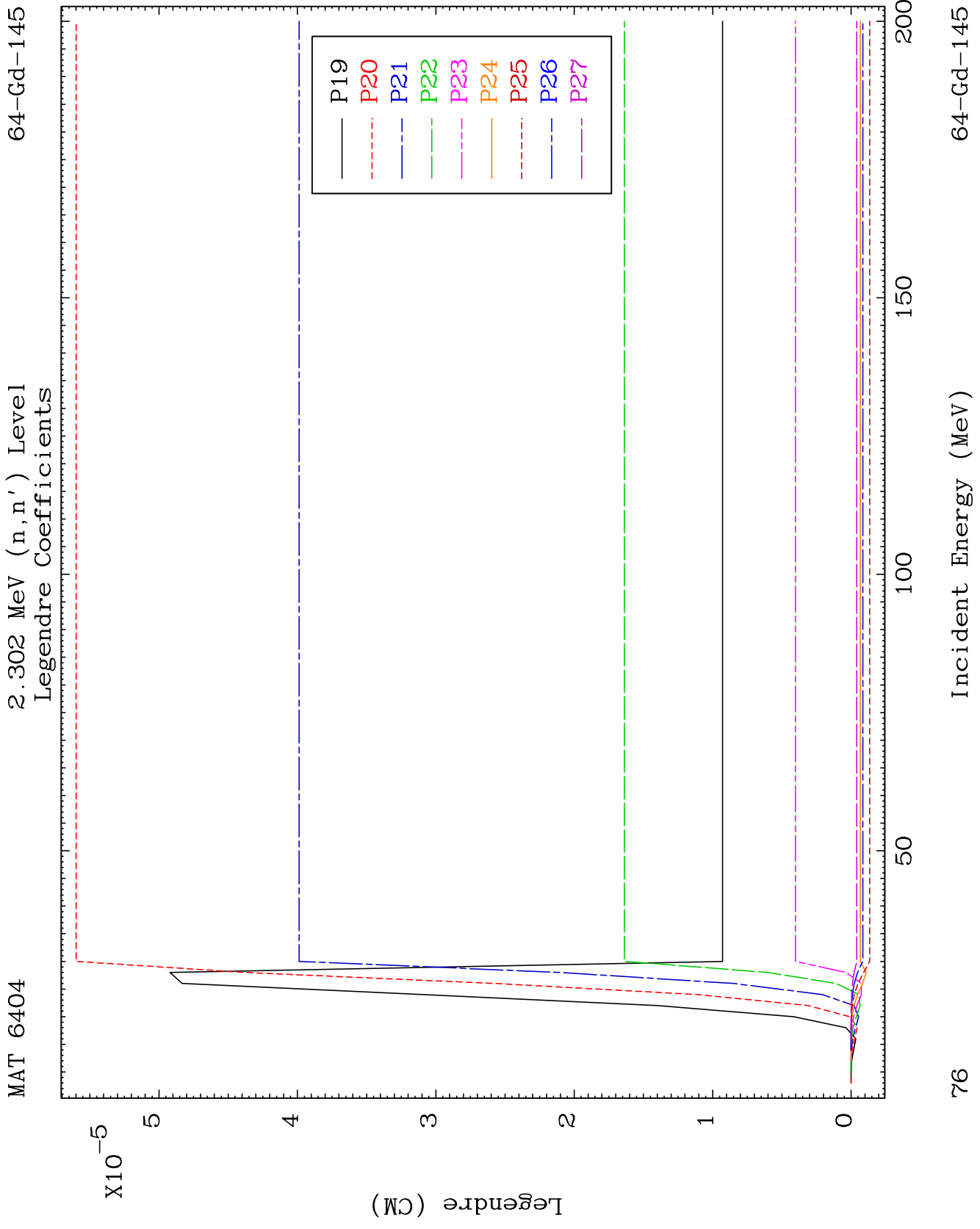
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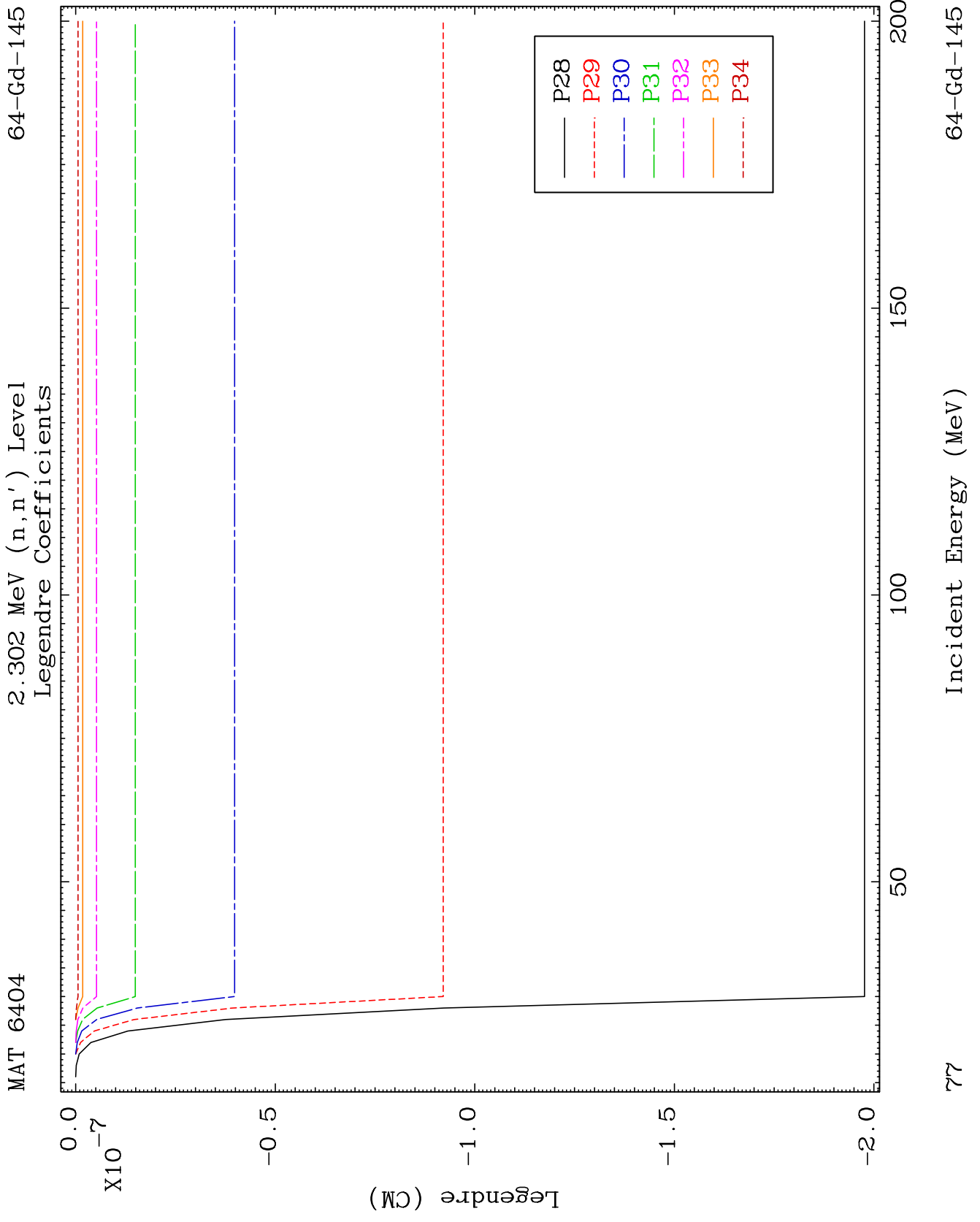


75

Incident Energy (MeV)

64-Gd-145

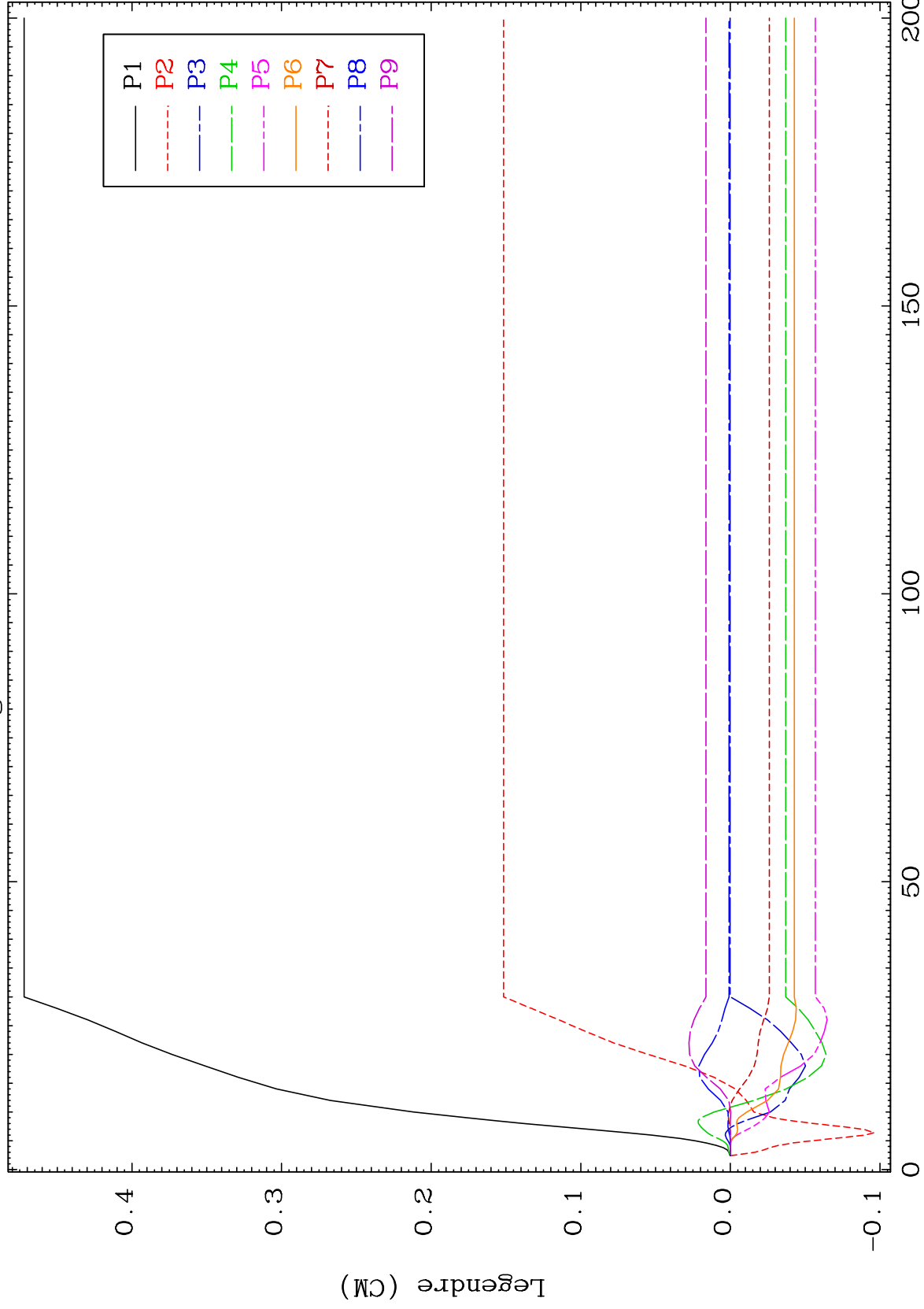




MAT 6404

2.382 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



78

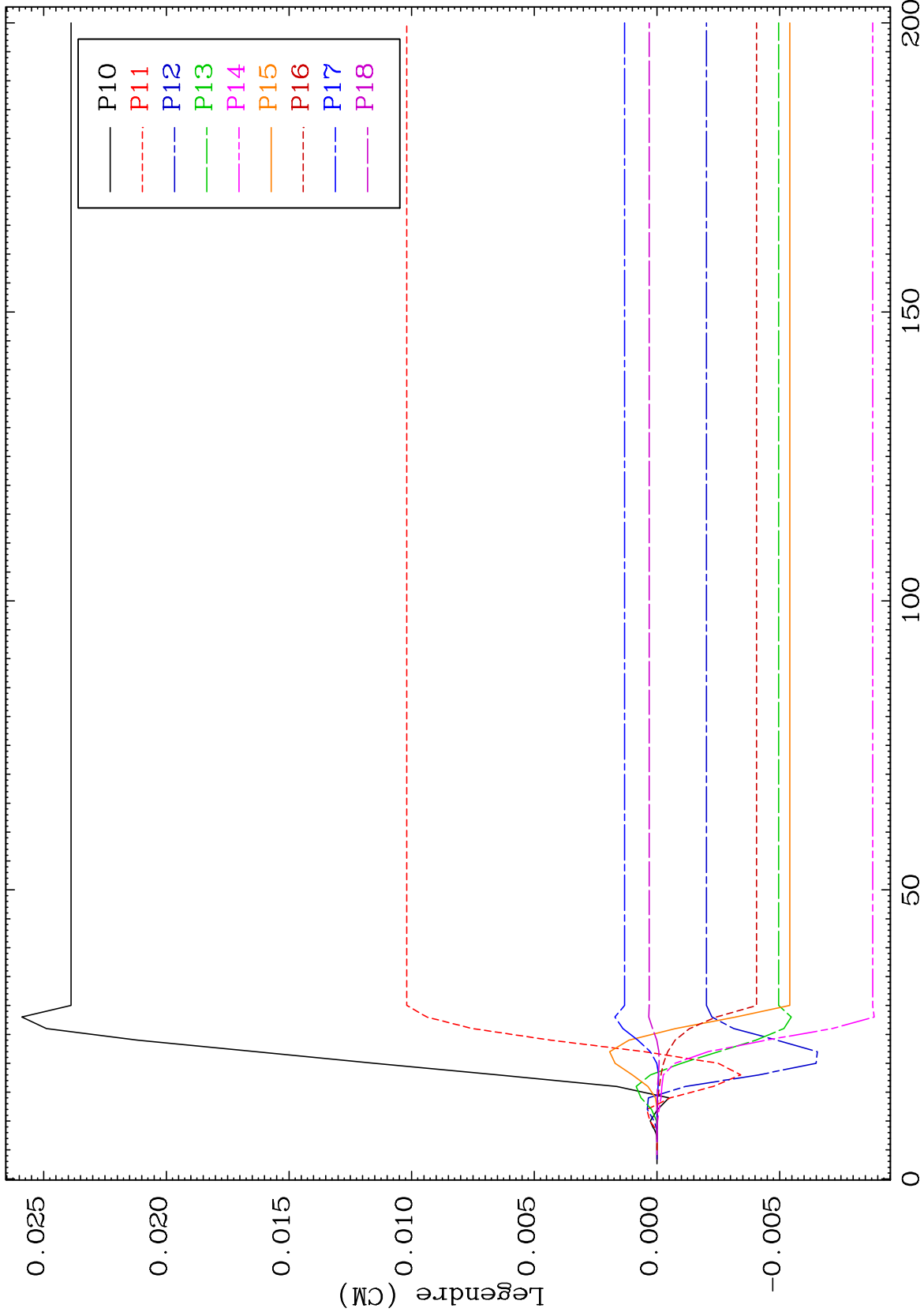
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.382 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



79

Incident Energy (MeV)

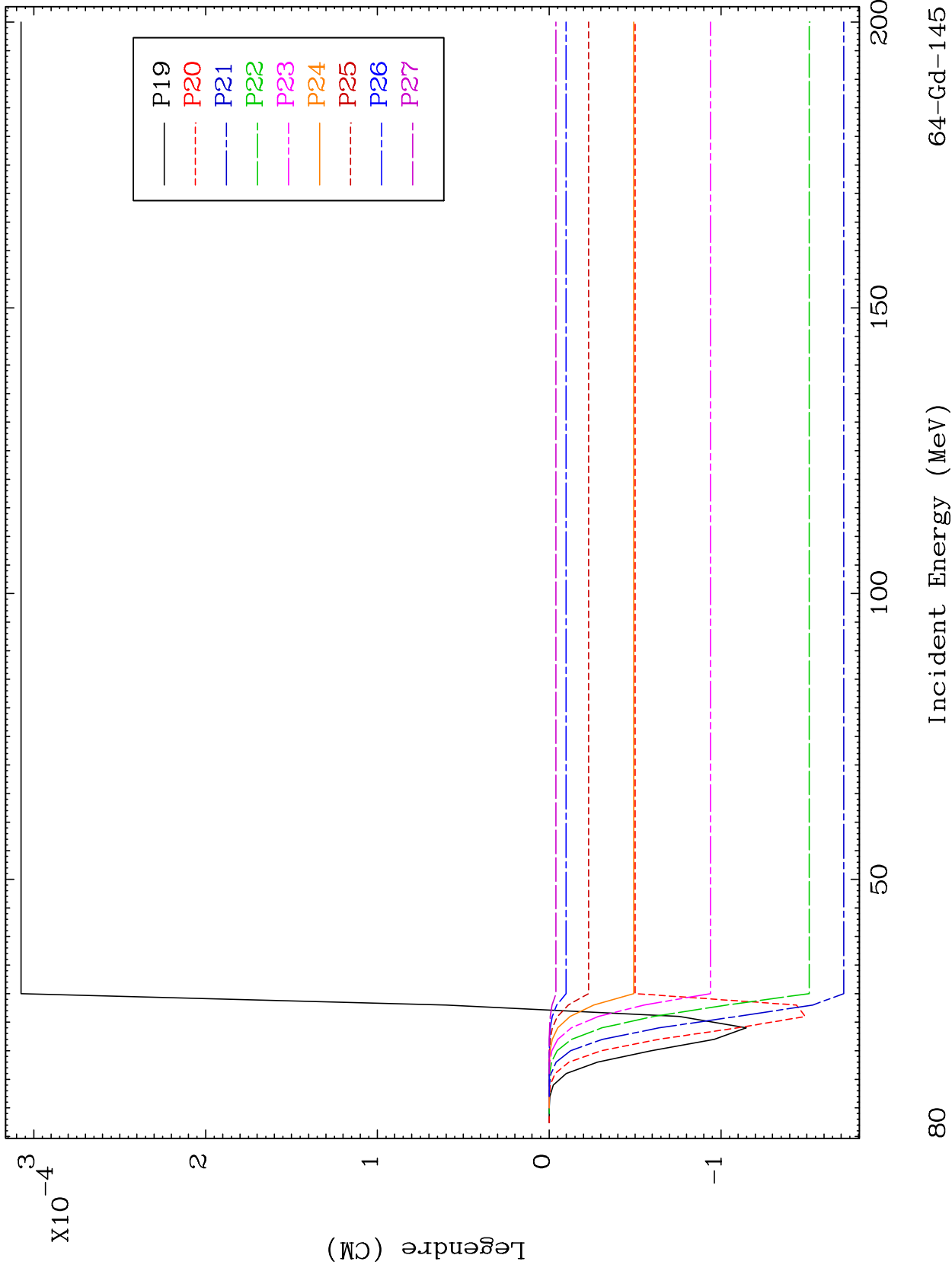
64-Gd-145



MAT 6404

2.382 MeV (n, n') Level  
Legendre Coefficients

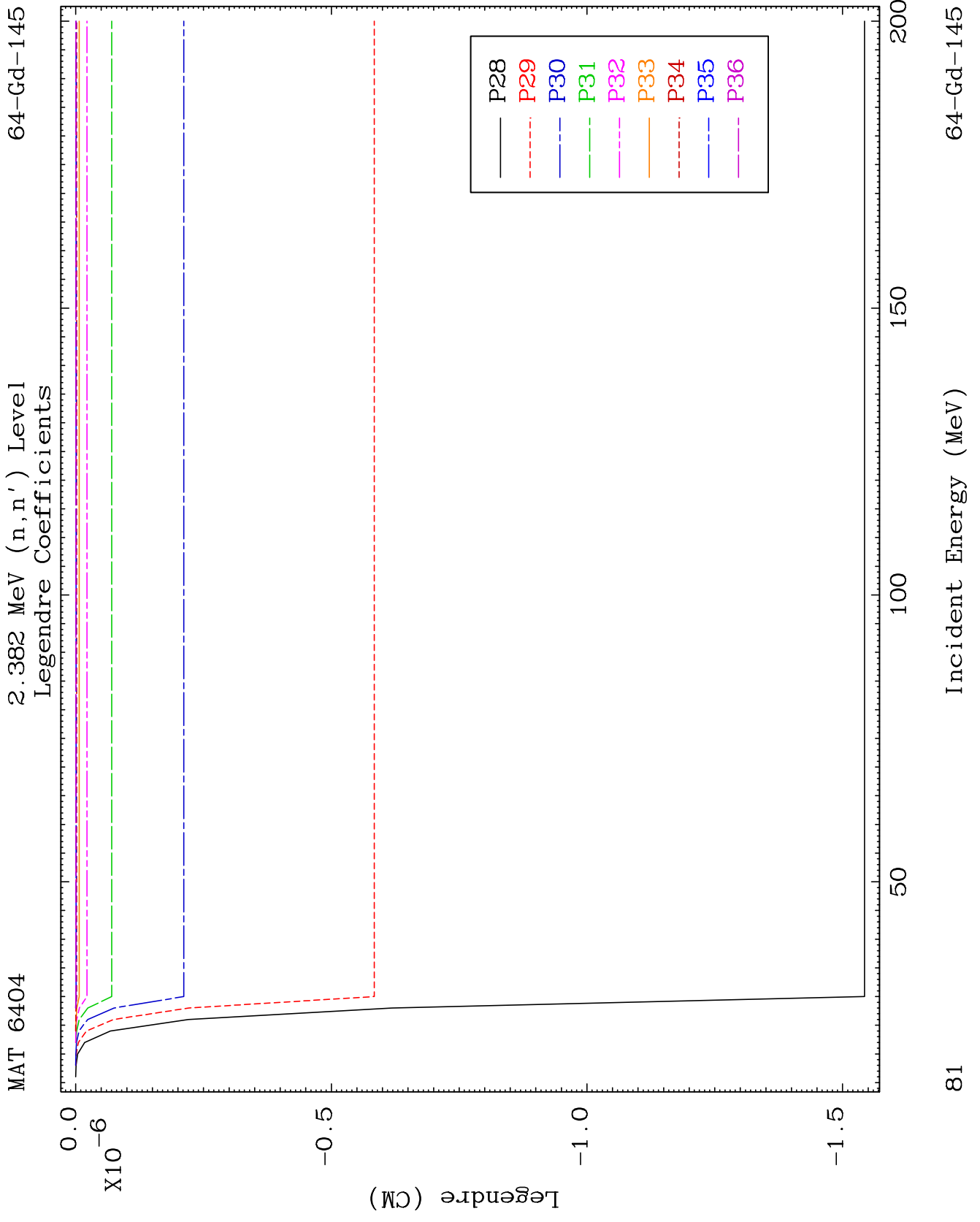
64-Gd-145



80

Incident Energy (MeV)

64-Gd-145

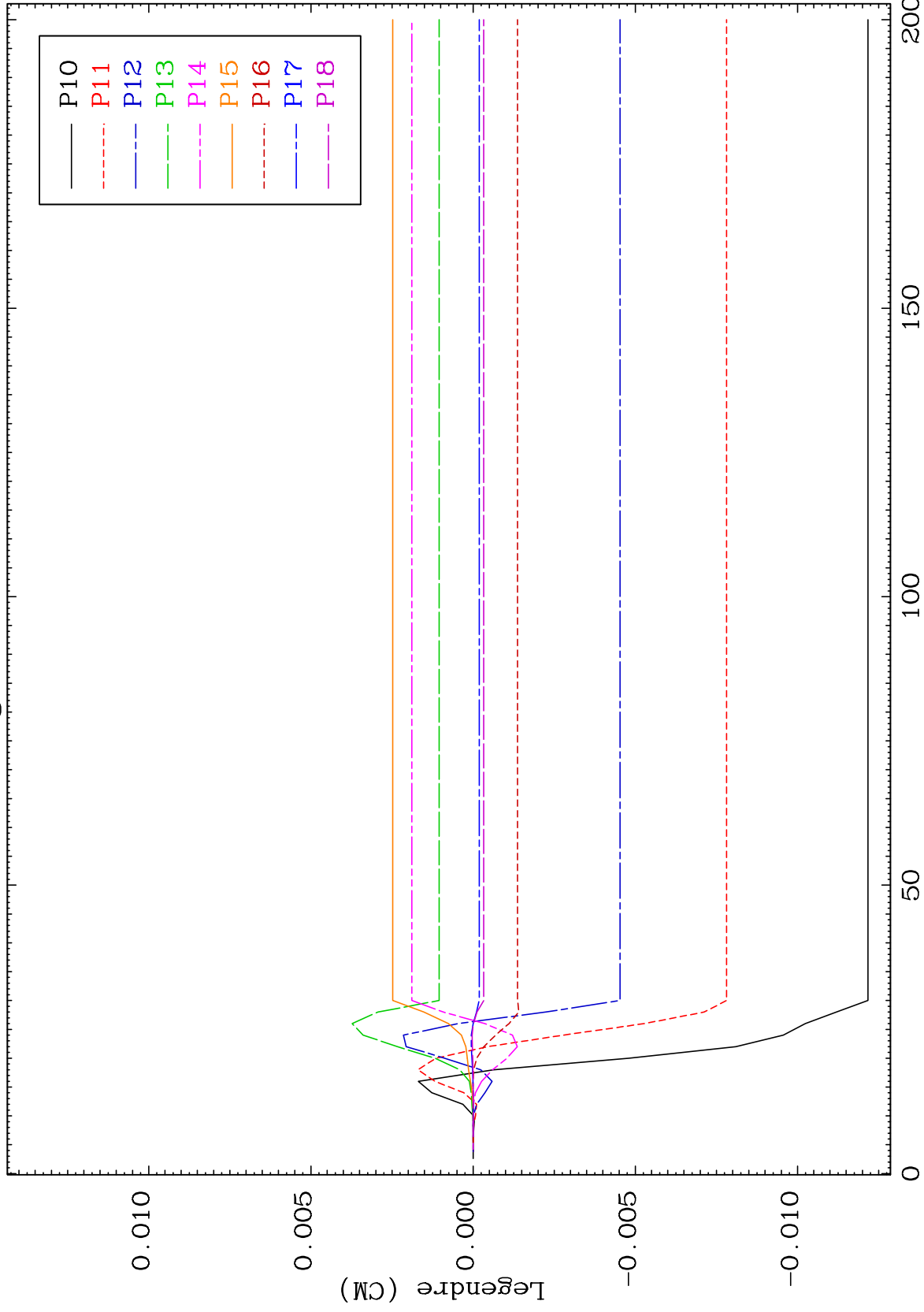




MAT 6404

2.411 MeV (n,n') Level  
Legendre Coefficients

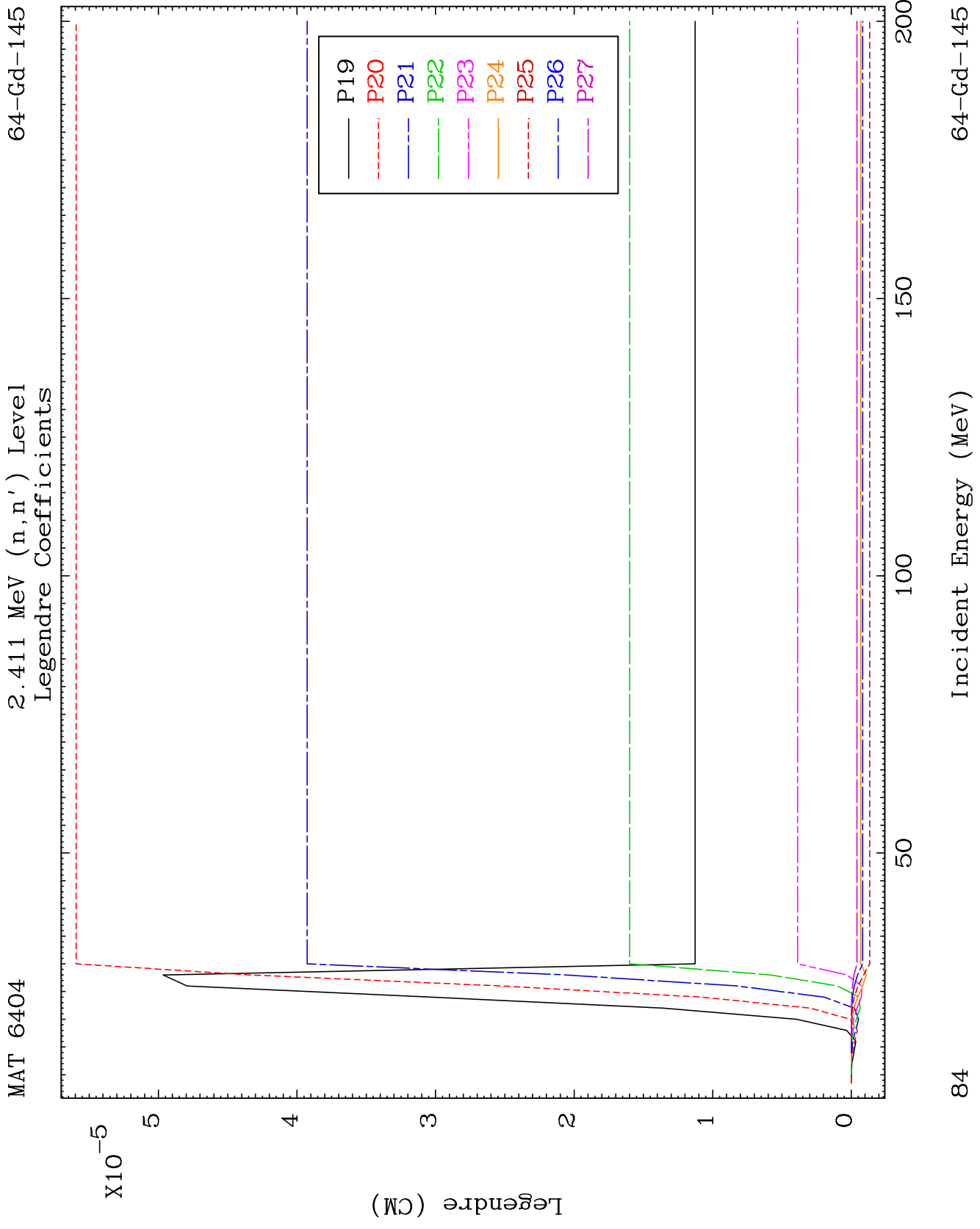
64-Gd-145

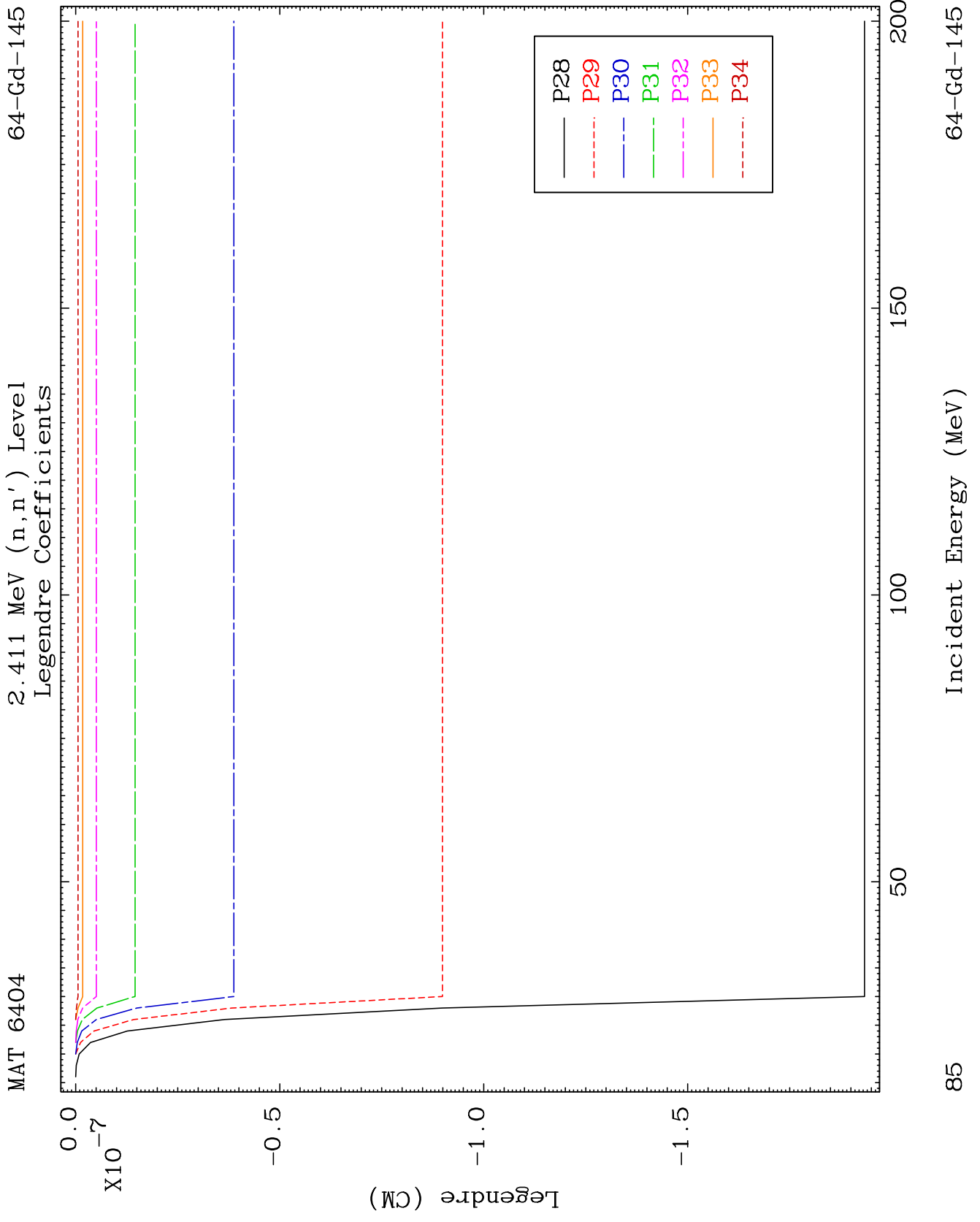


83

Incident Energy (MeV)

64-Gd-145

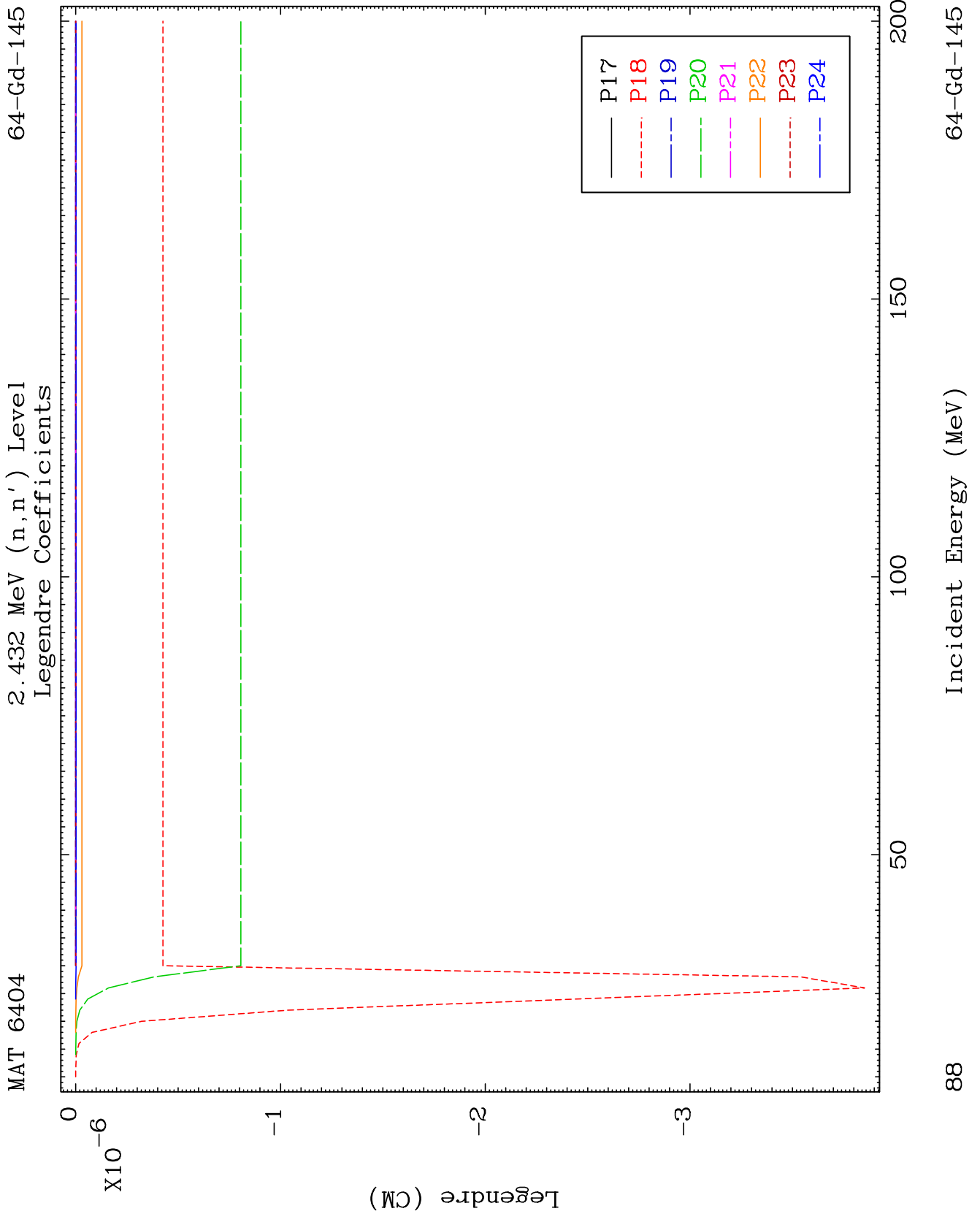




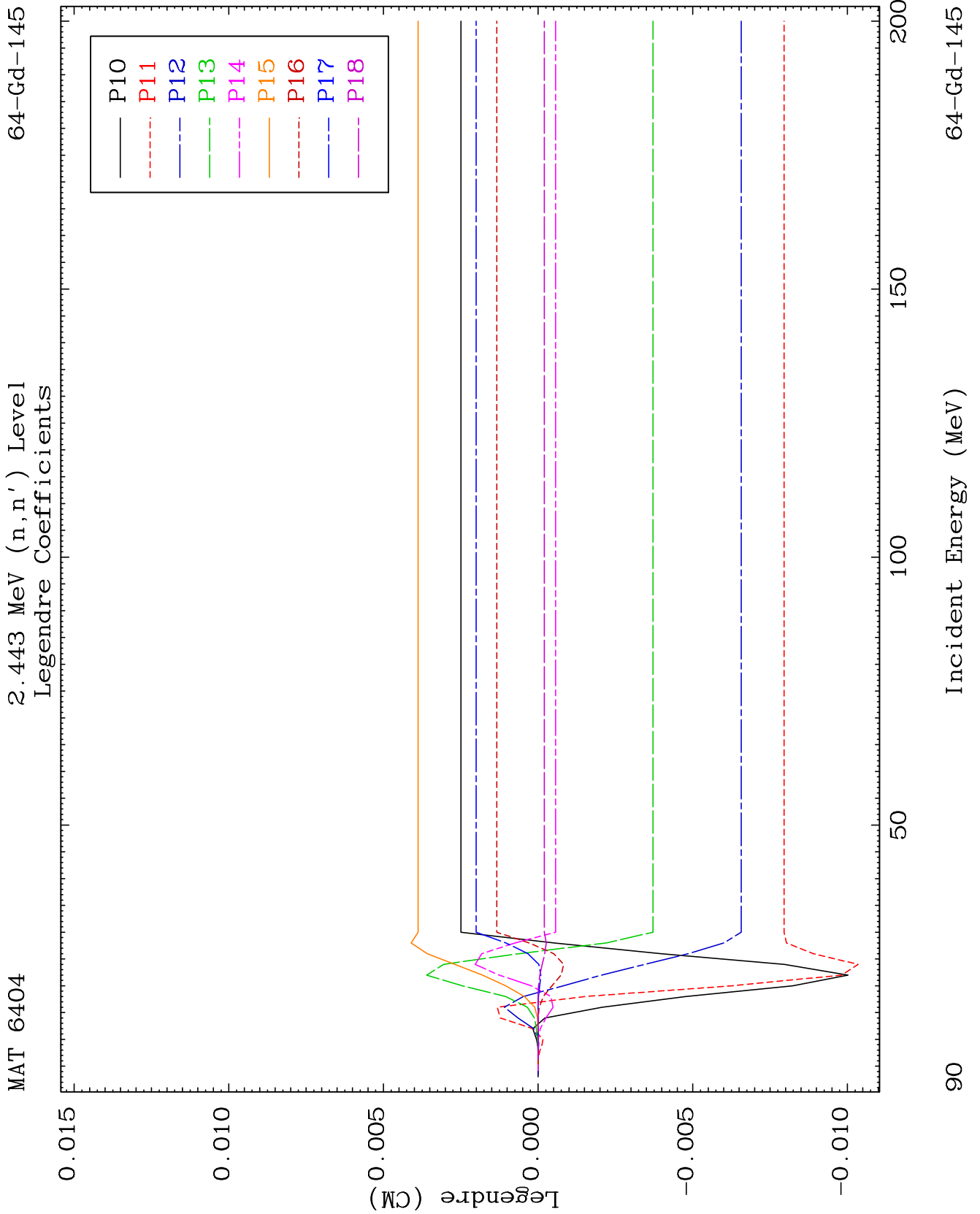


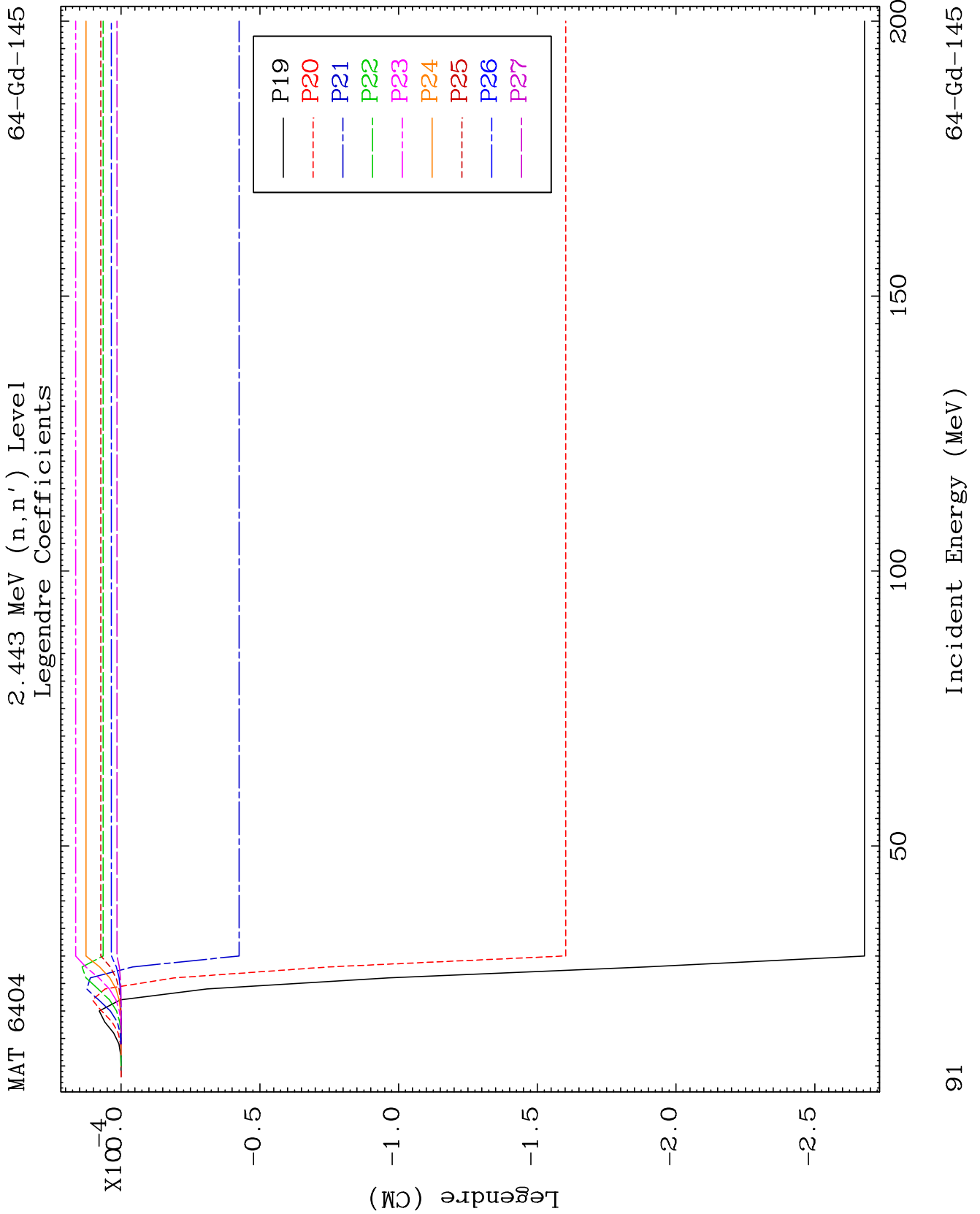








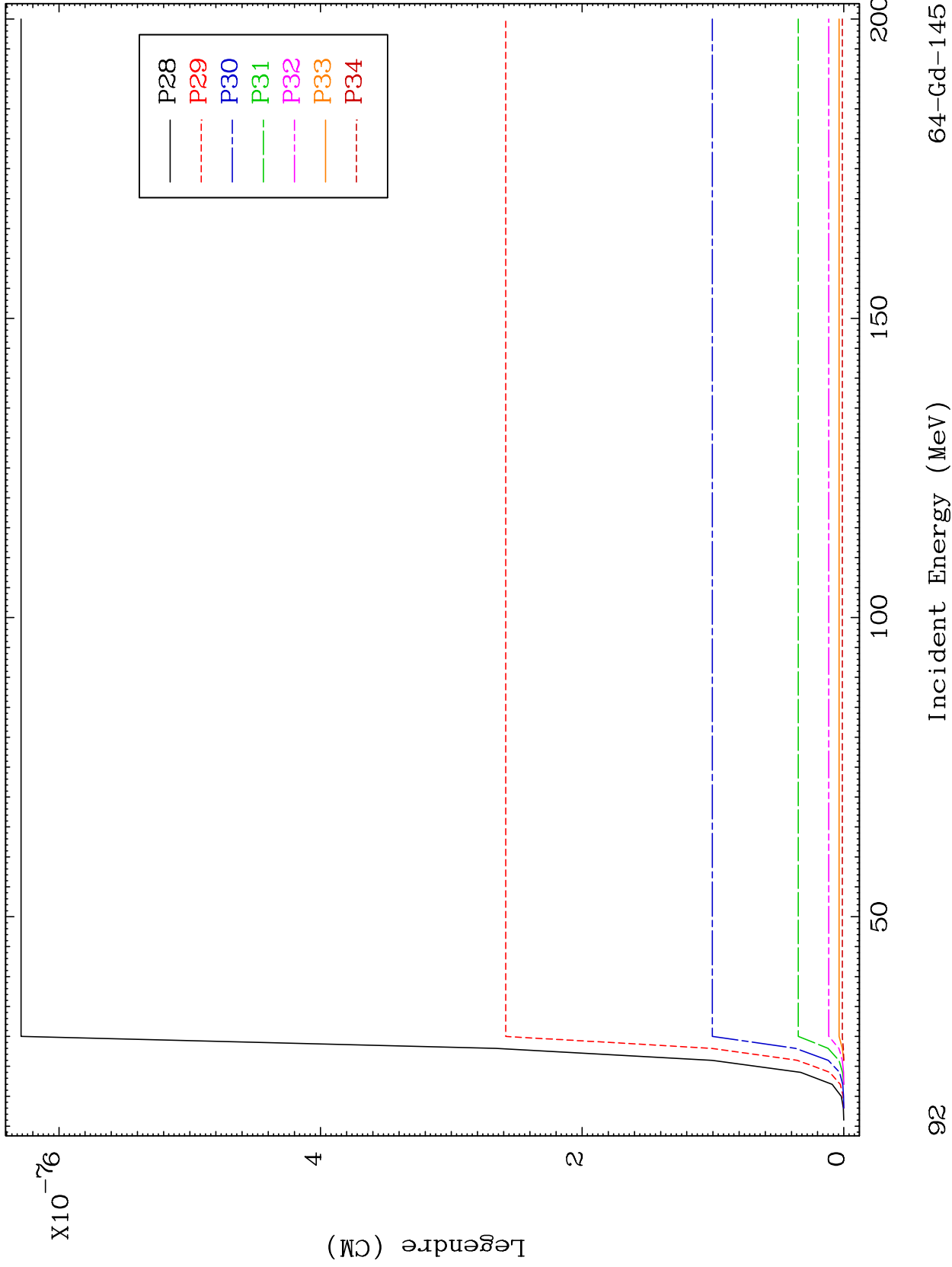




MAT 6404

2.443 MeV (n, n') Level  
Legendre Coefficients

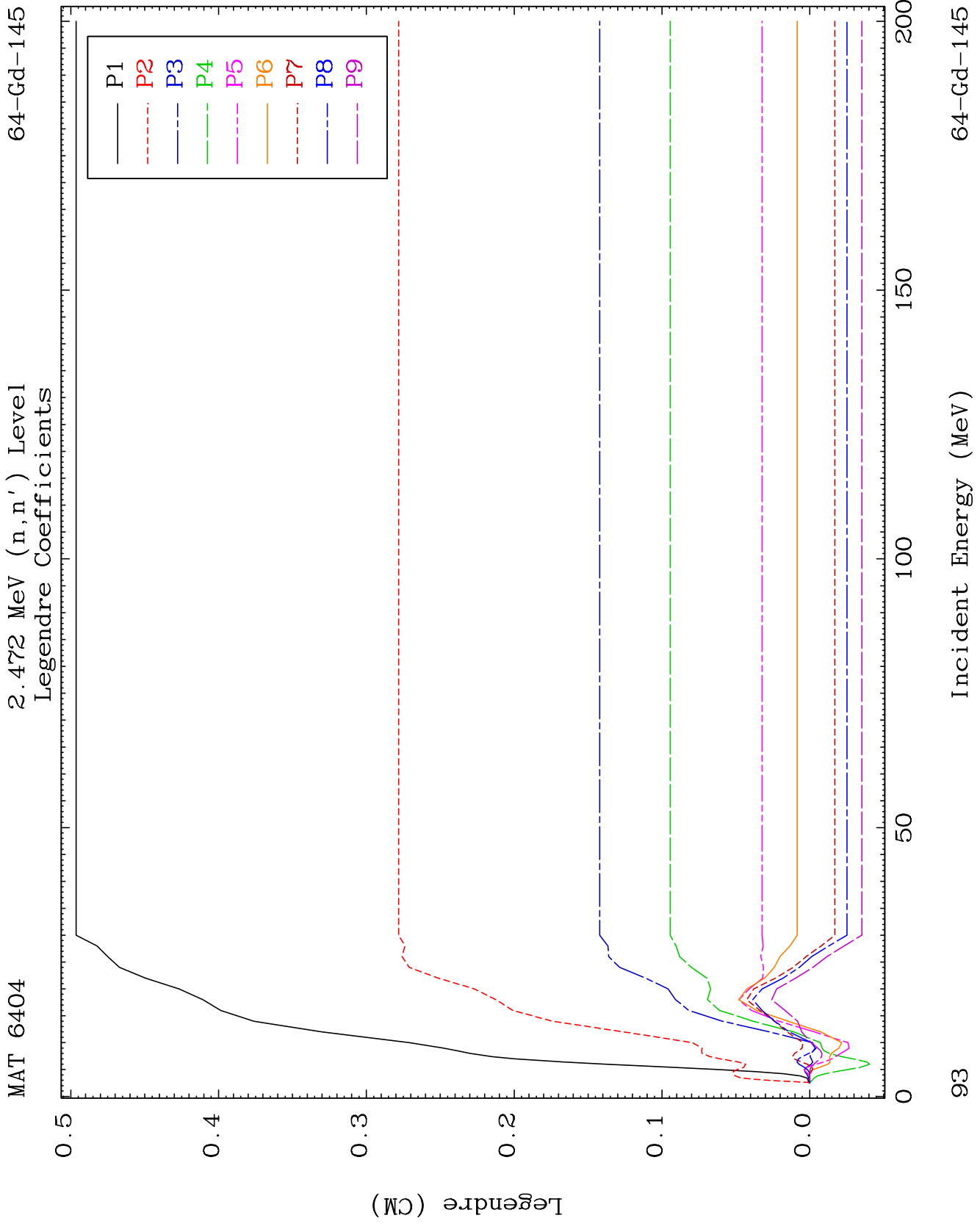
64-Gd-145



92

Incident Energy (MeV)

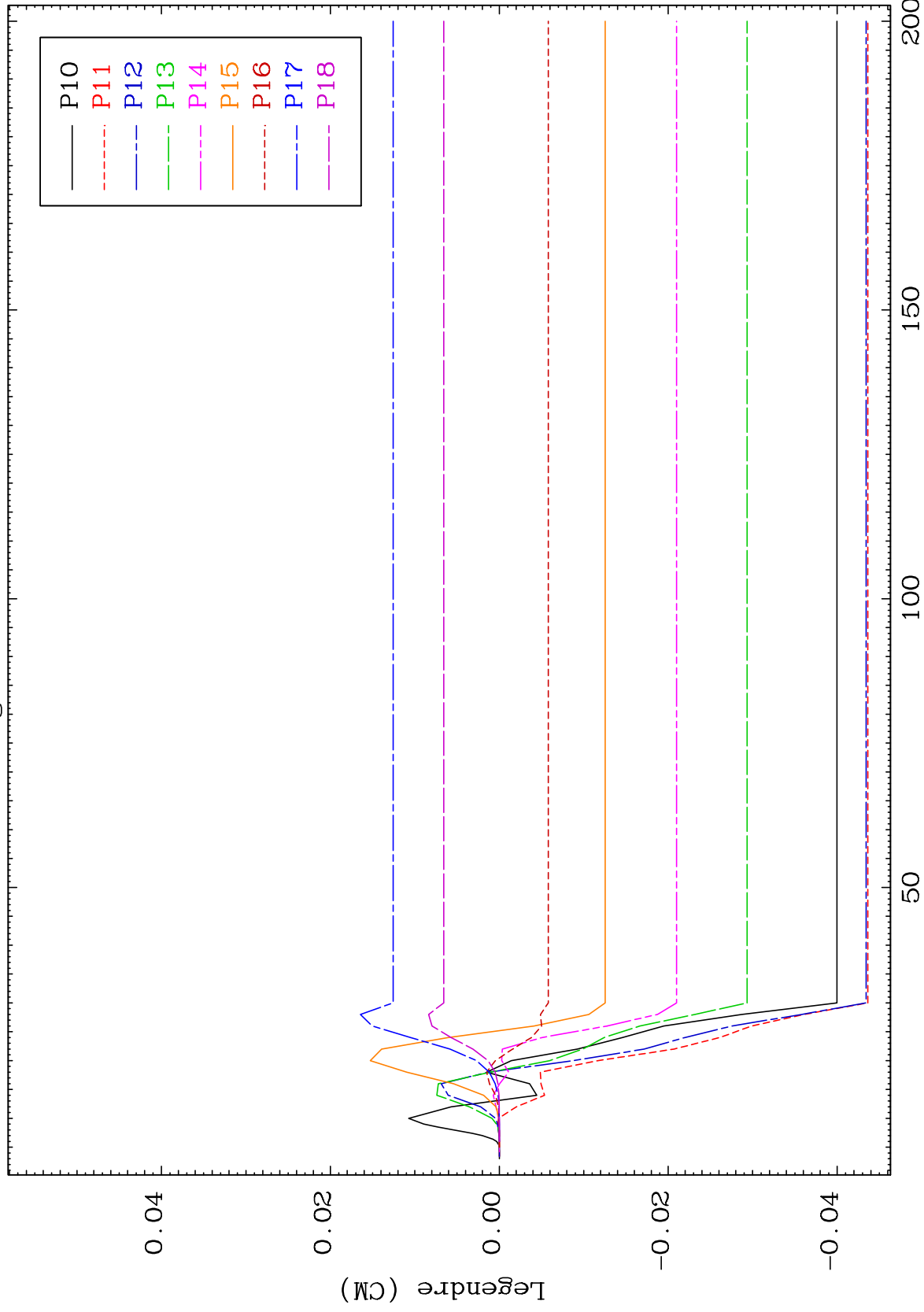
64-Gd-145



MAT 6404

2.472 MeV (n, n') Level  
Legendre Coefficients

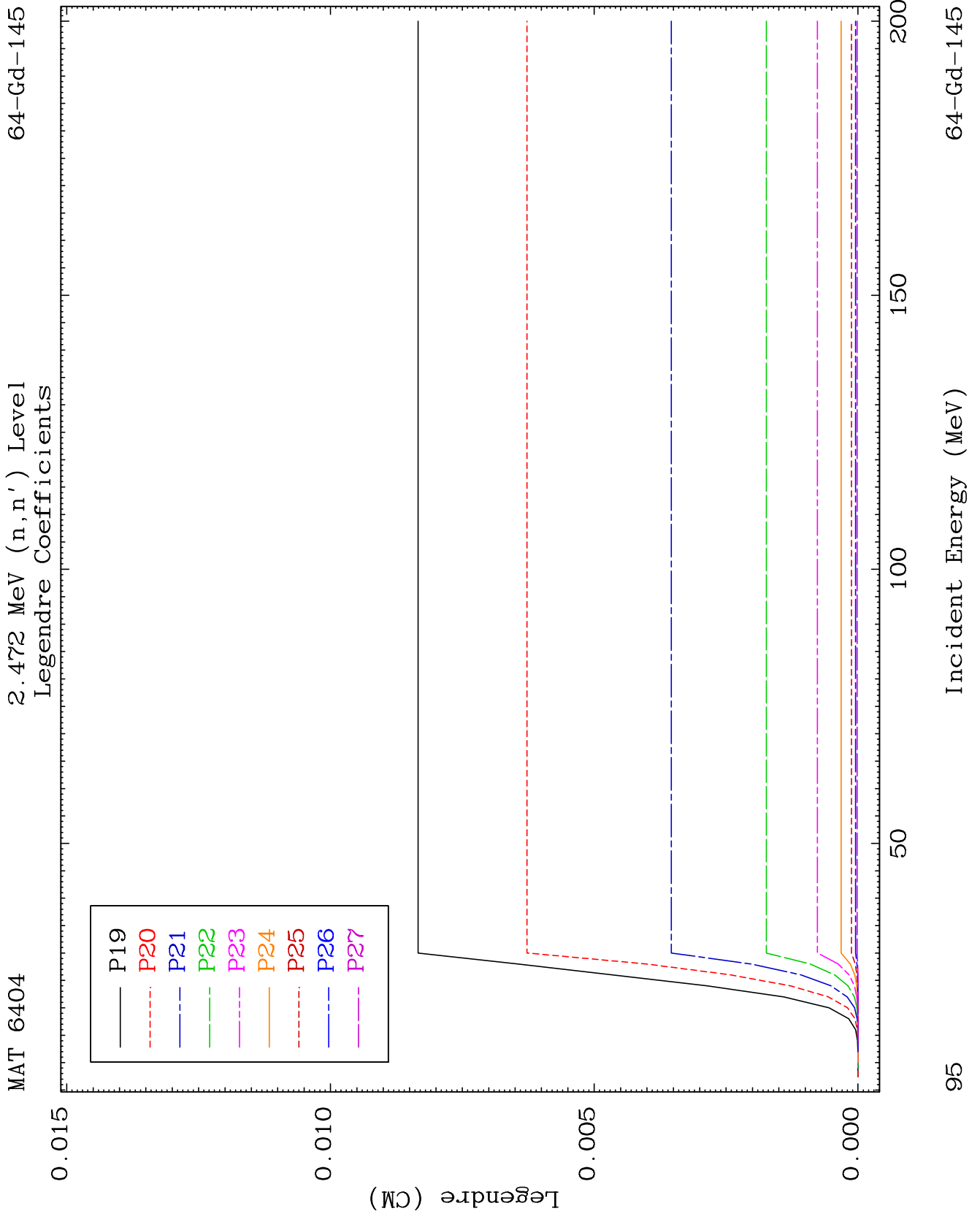
64-Gd-145



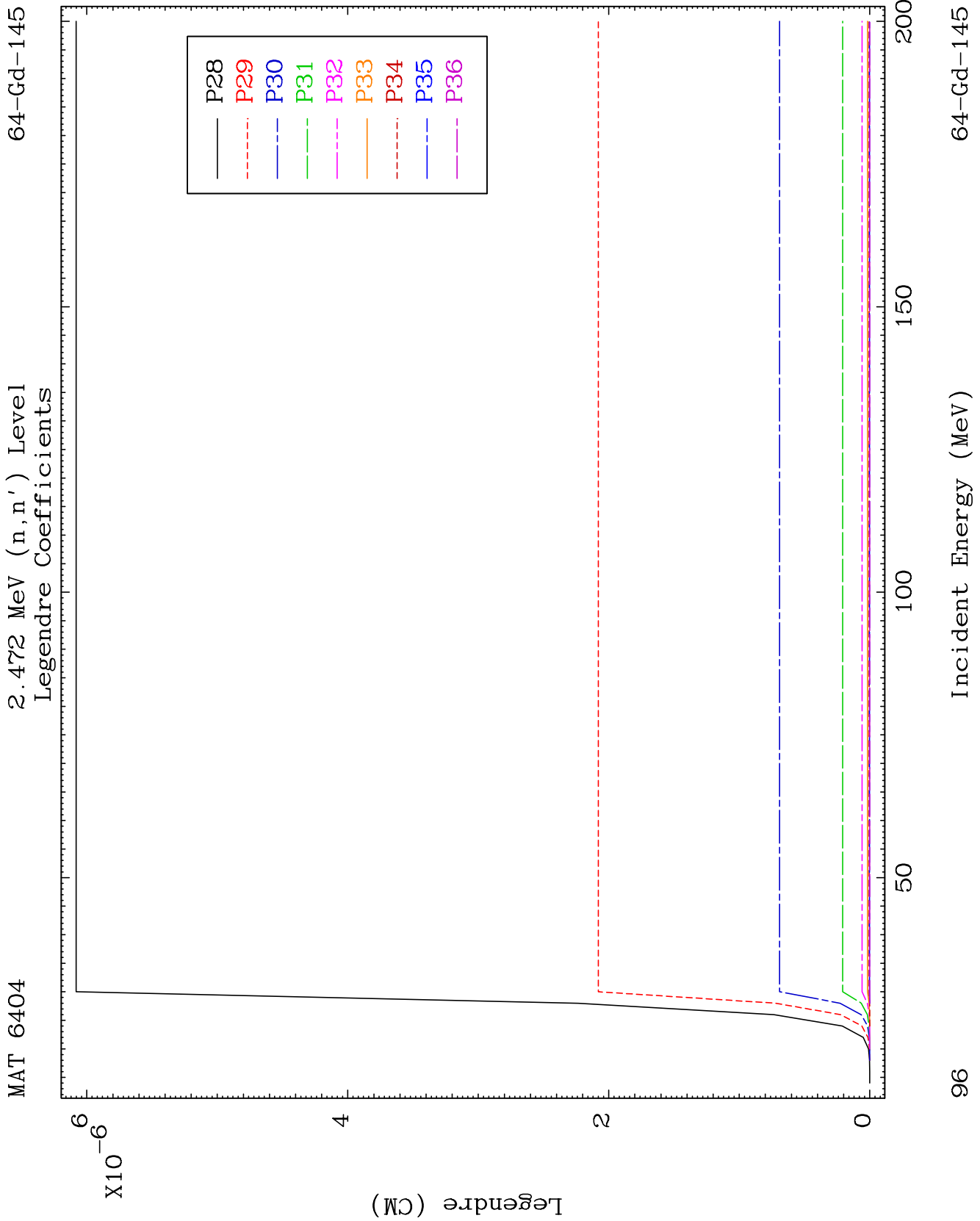
94

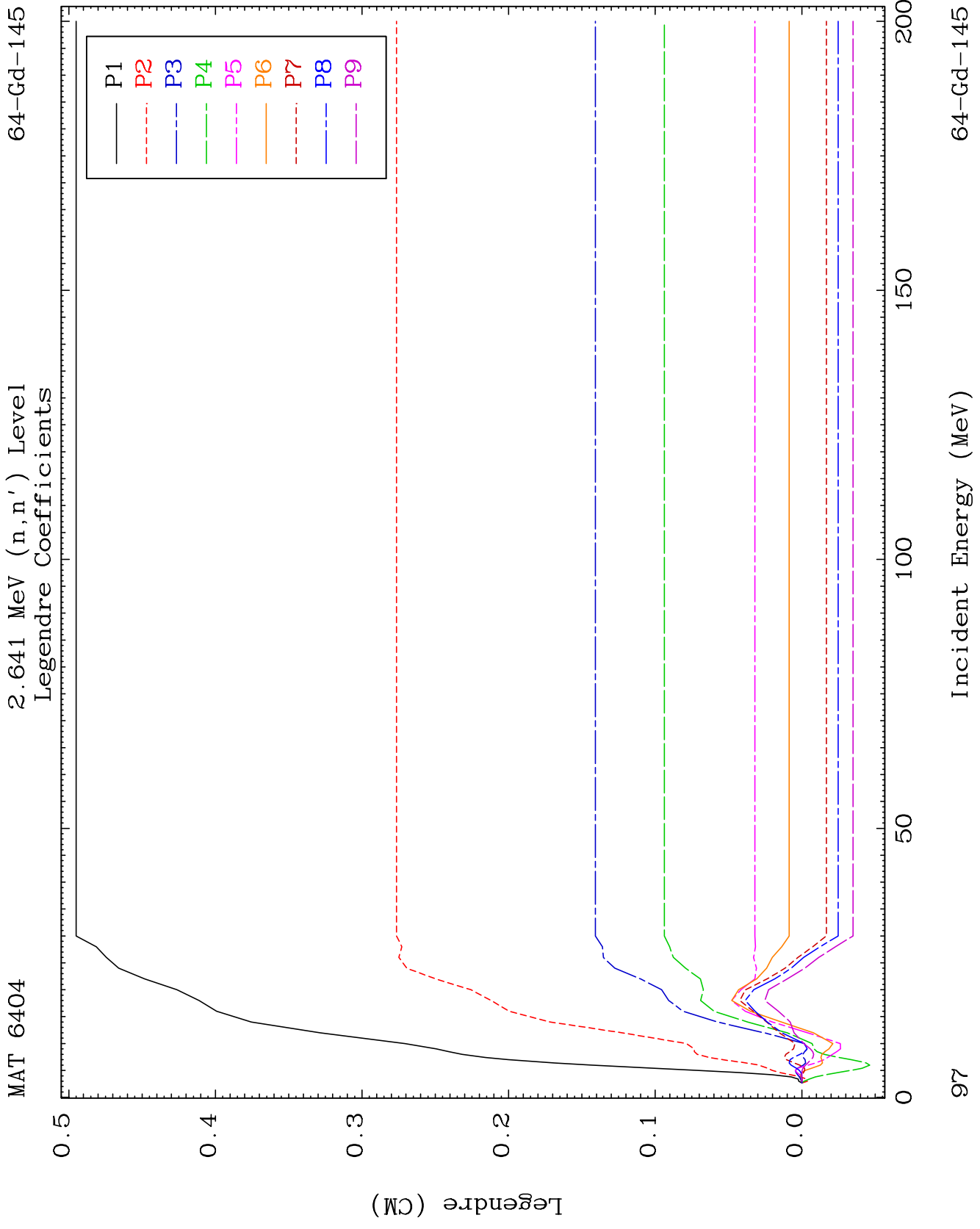
Incident Energy (MeV)

64-Gd-145





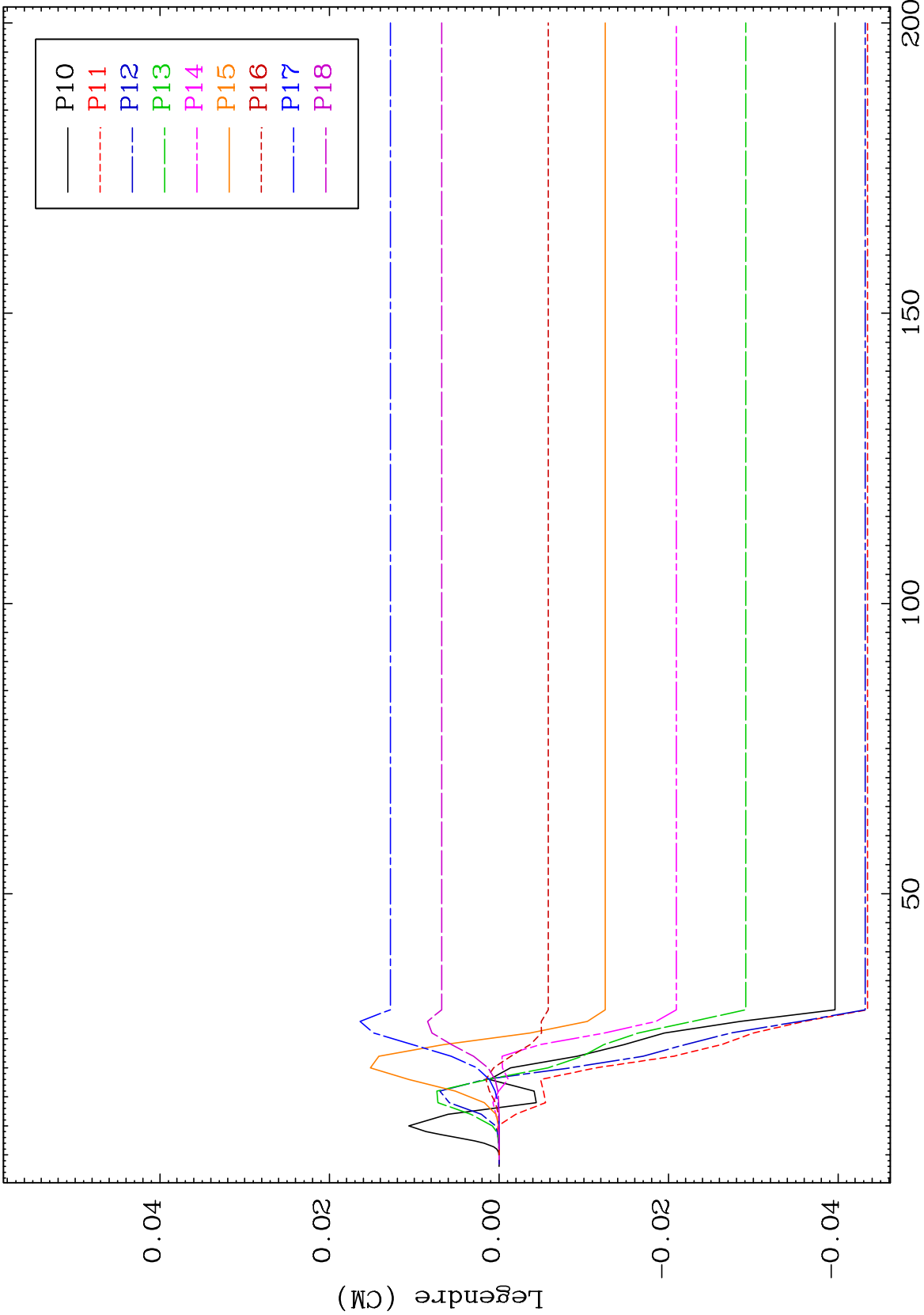




MAT 6404

2.641 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



98

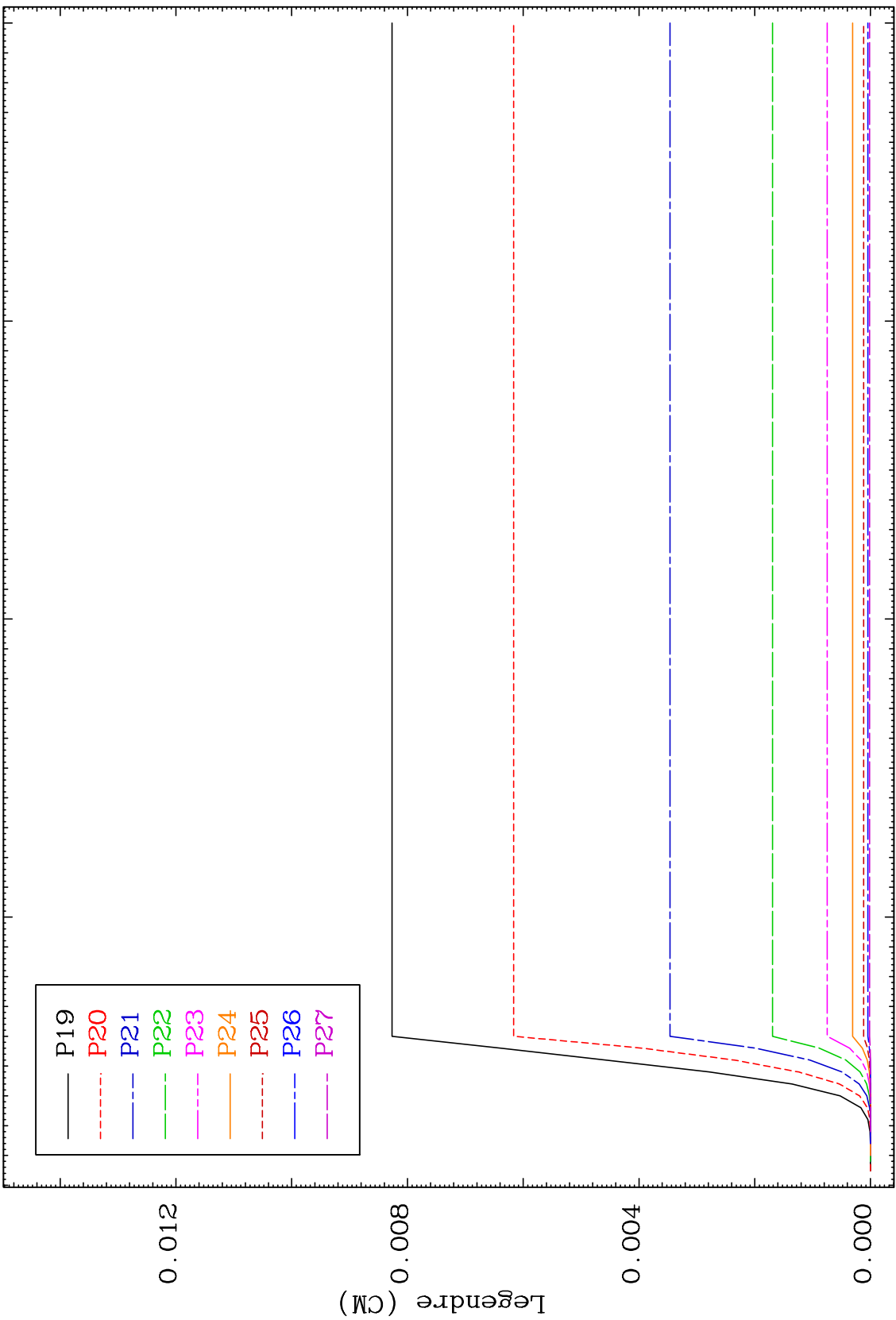
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.641 MeV (n,n') Level  
Legendre Coefficients

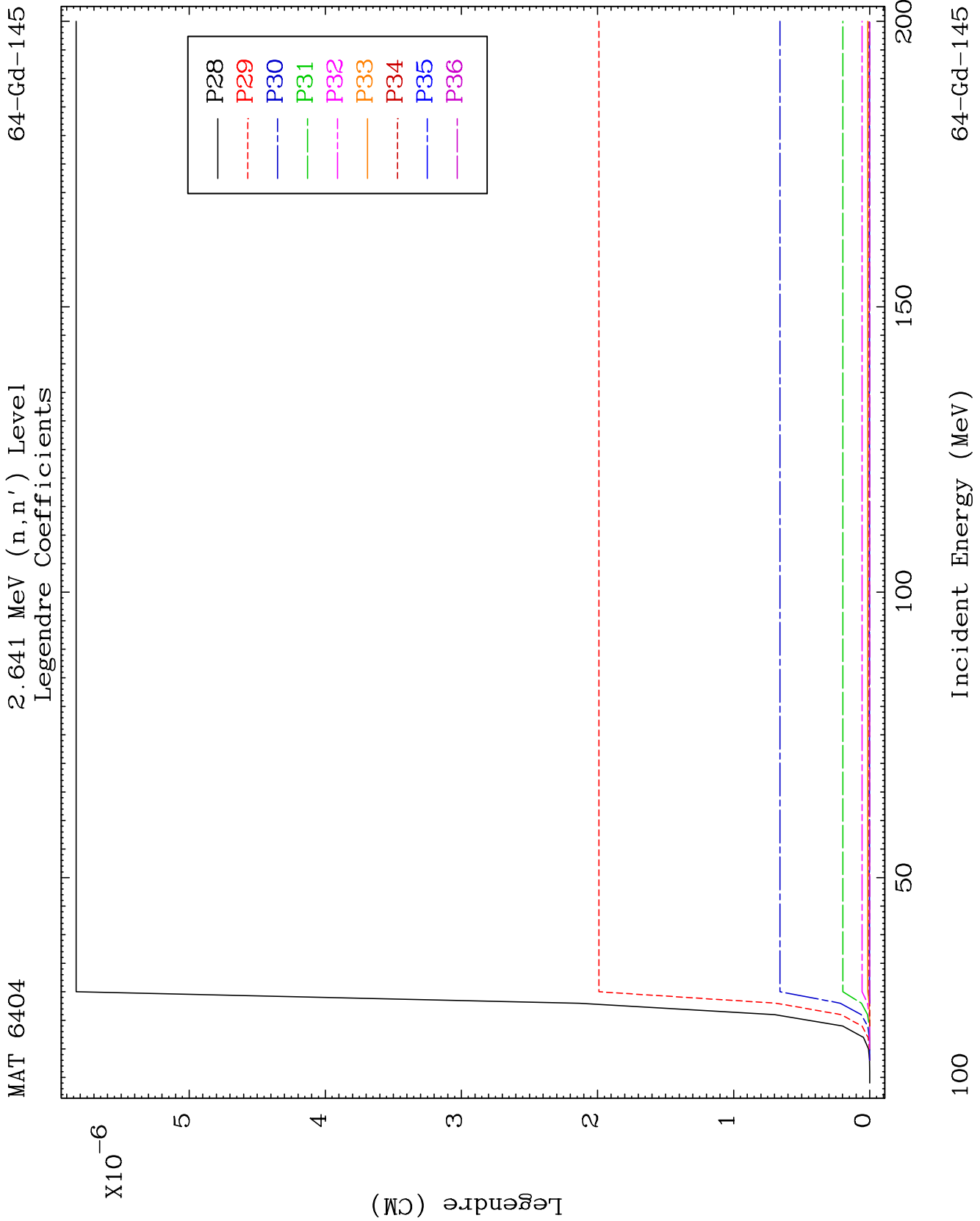
64-Gd-145

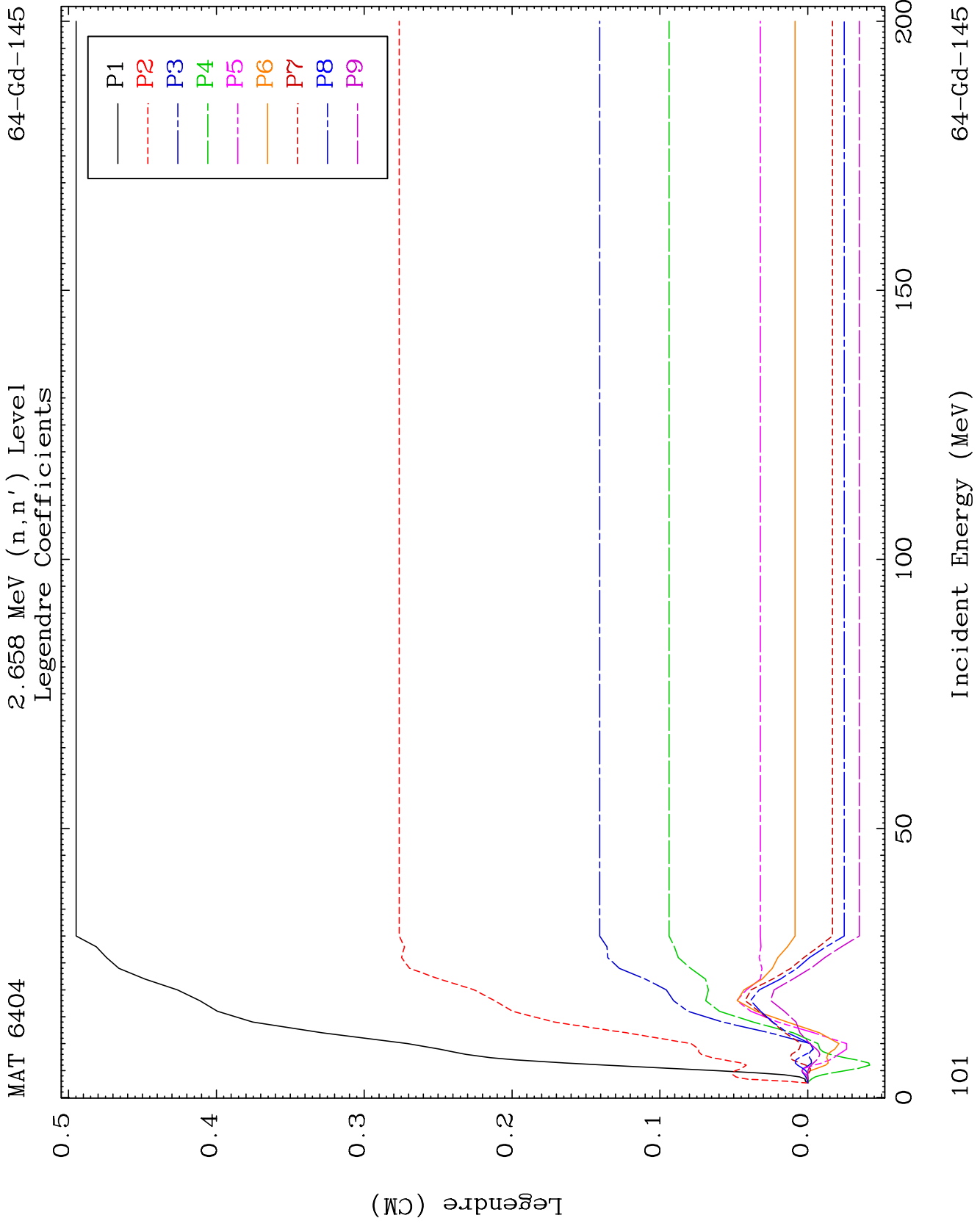


99

Incident Energy (MeV)

64-Gd-145

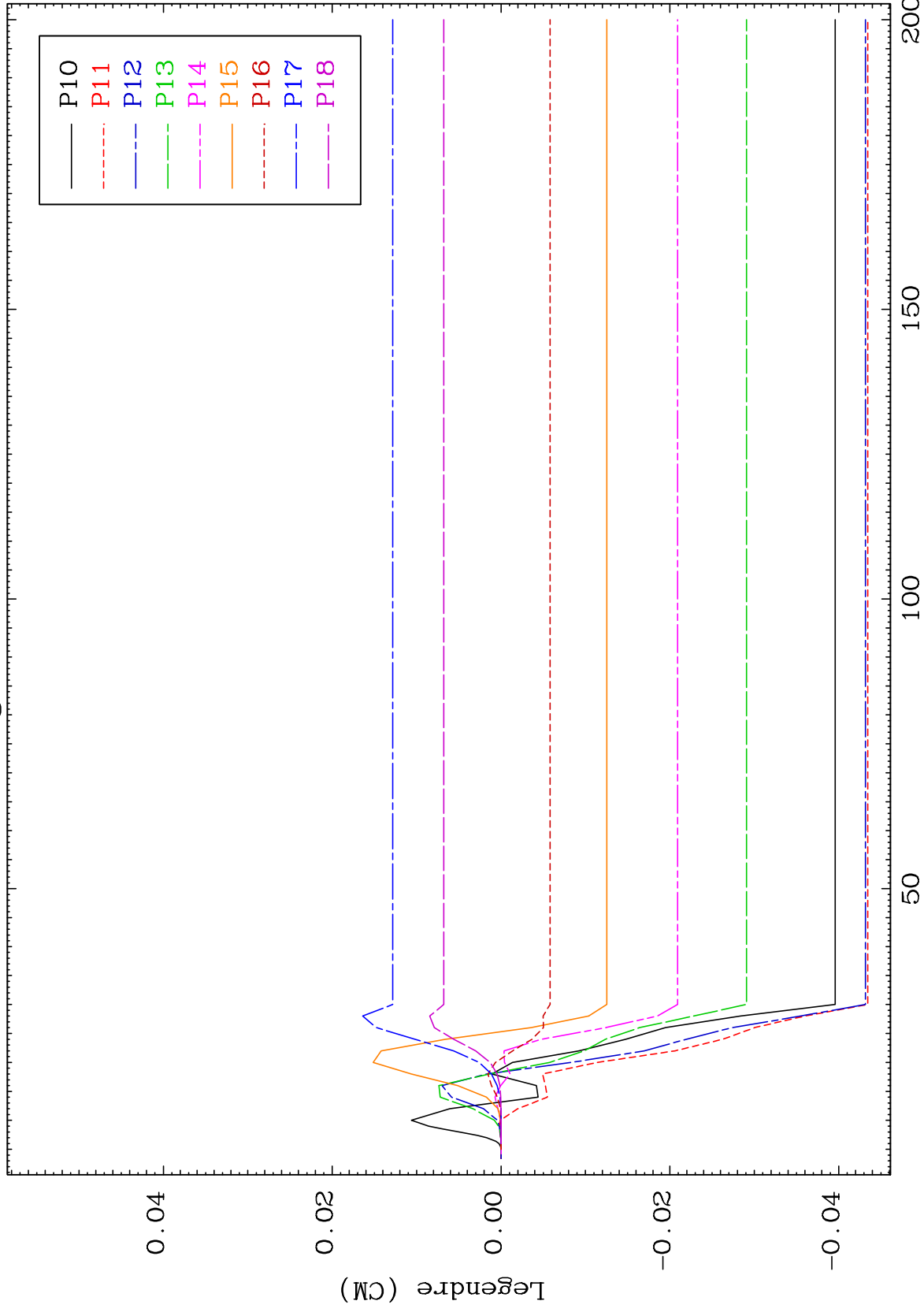




MAT 6404

2.658 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



102

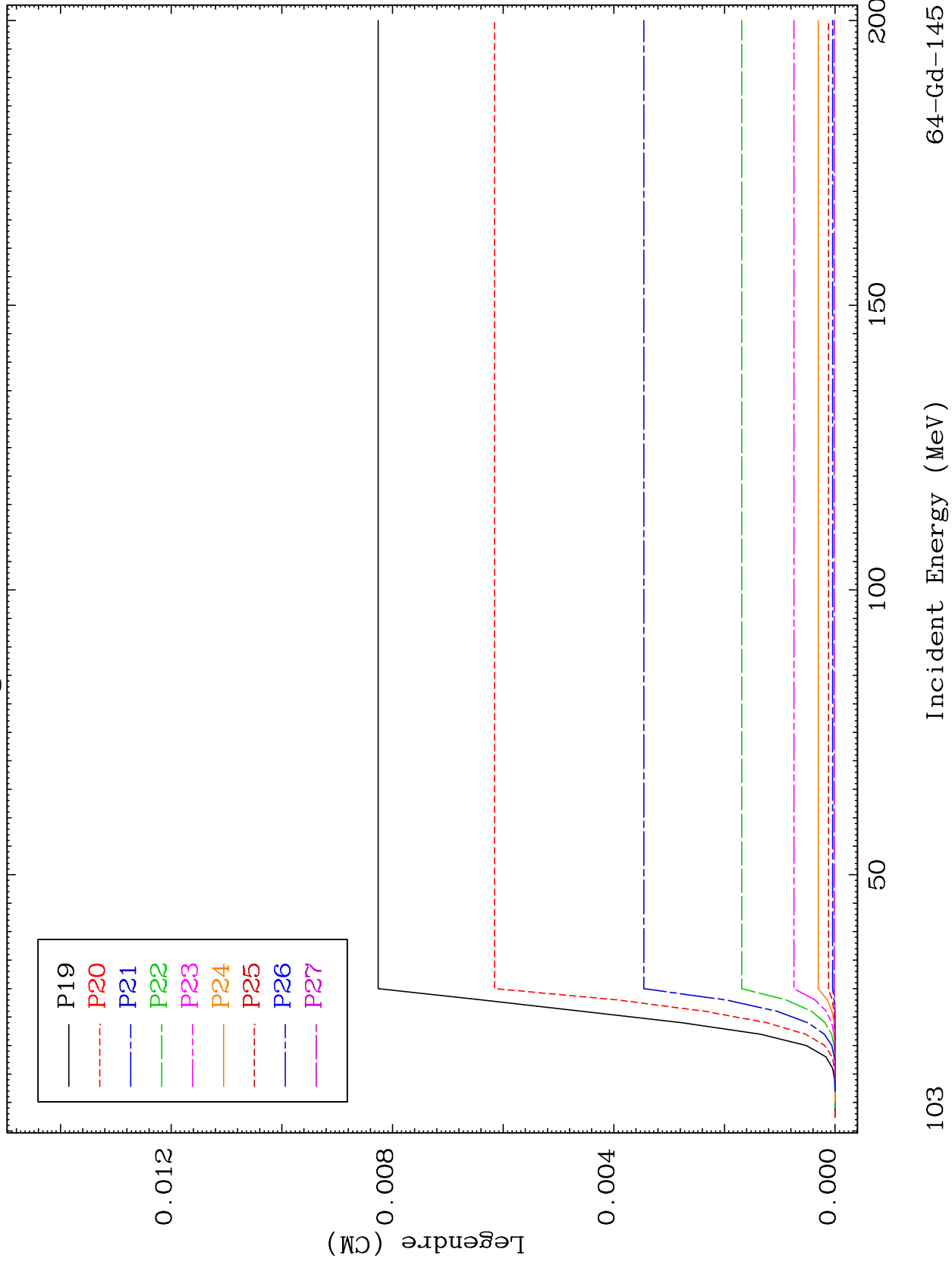
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.658 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145

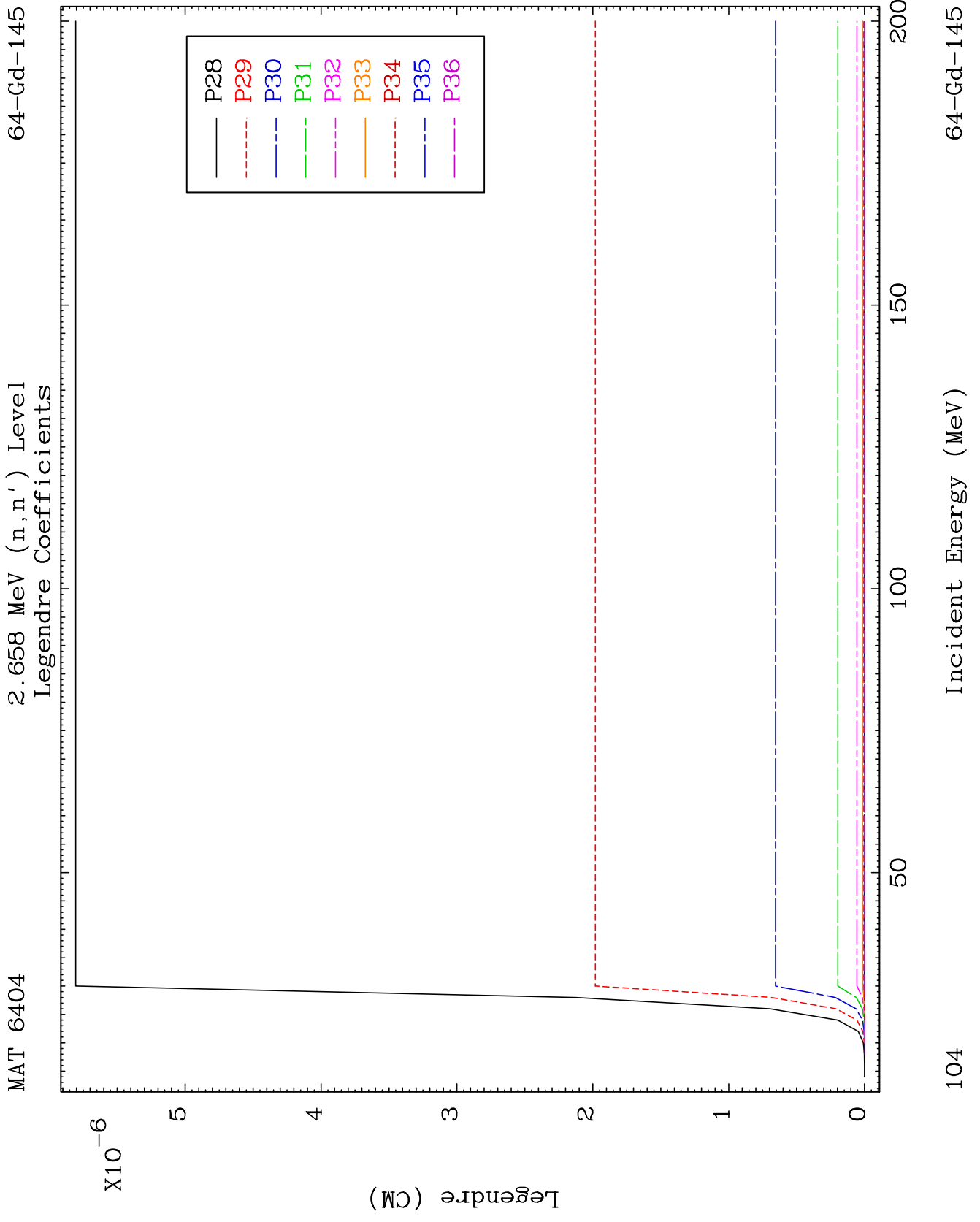


103

Incident Energy (MeV)

64-Gd-145



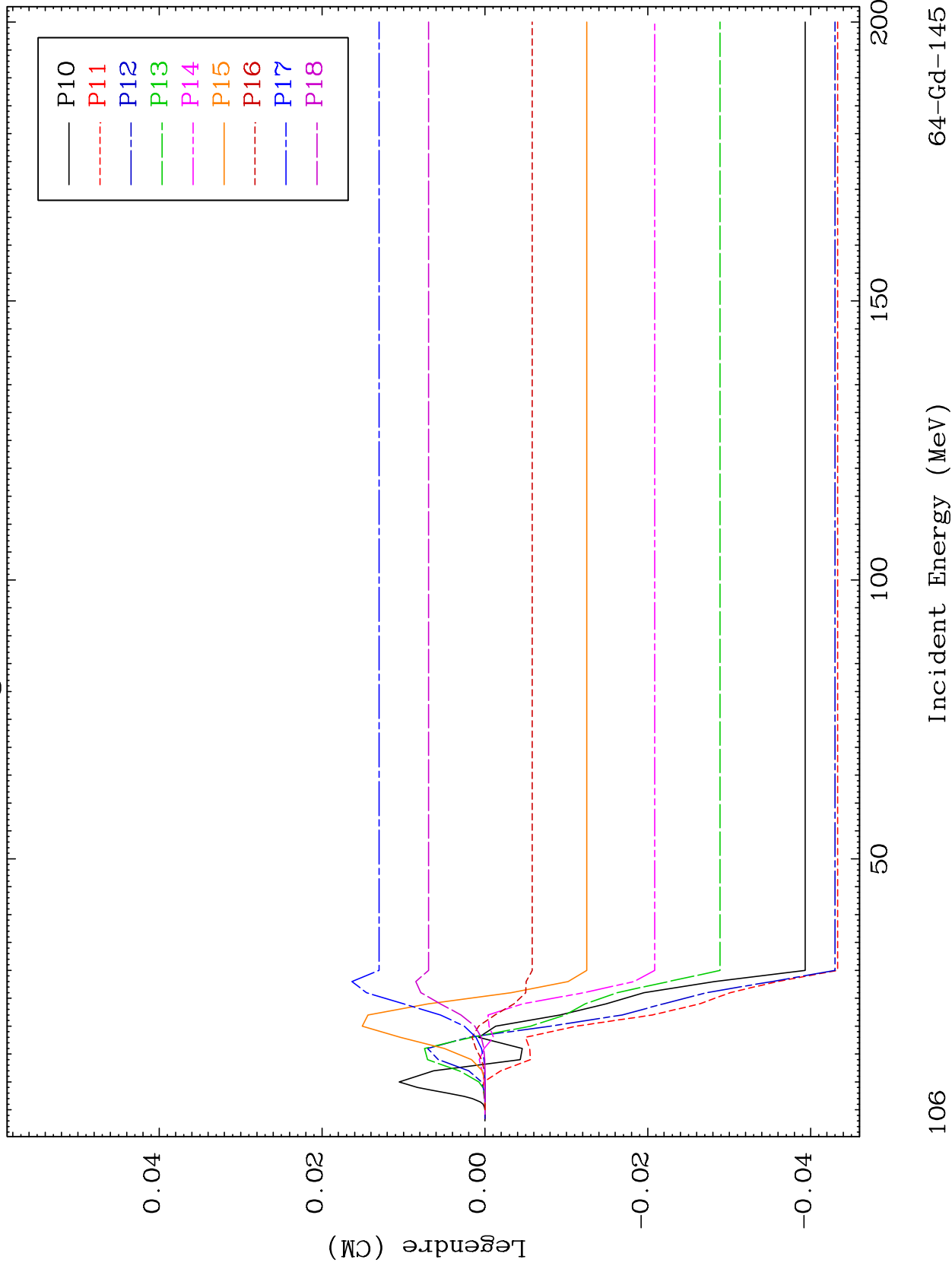




MAT 6404

2.784 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



106

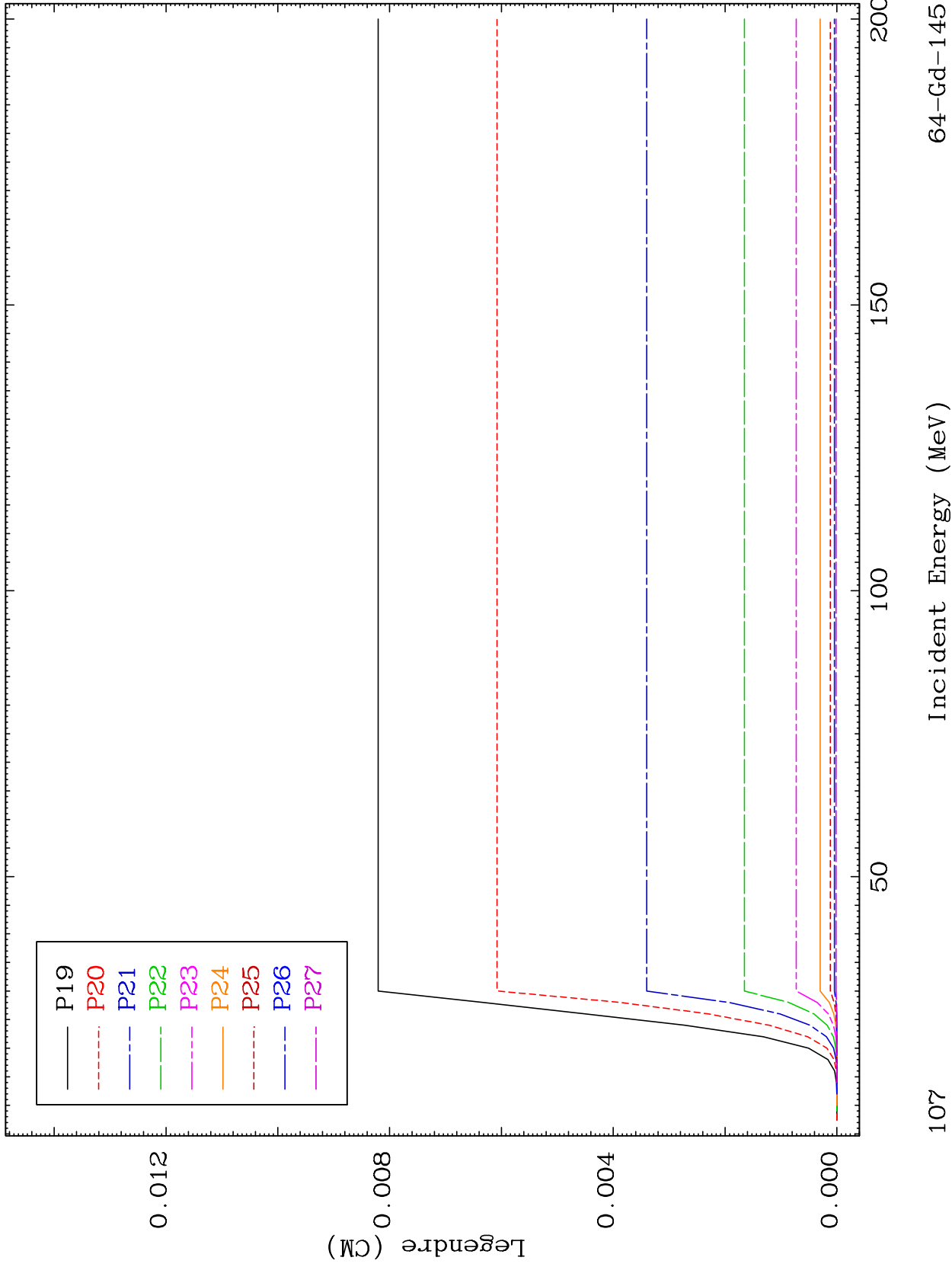
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.784 MeV (n, n') Level  
Legendre Coefficients

64-Gd-145



107

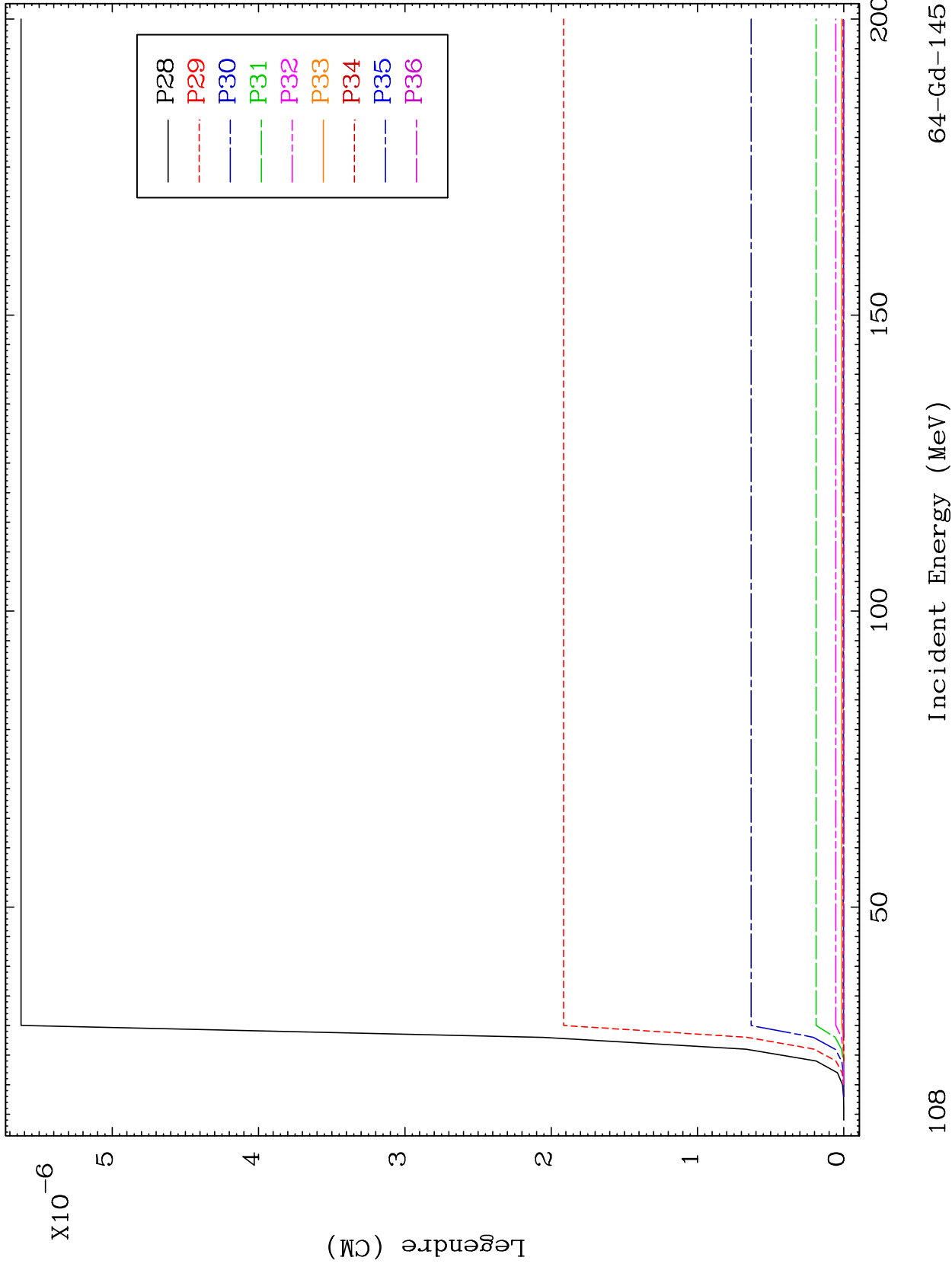
Incident Energy (MeV)

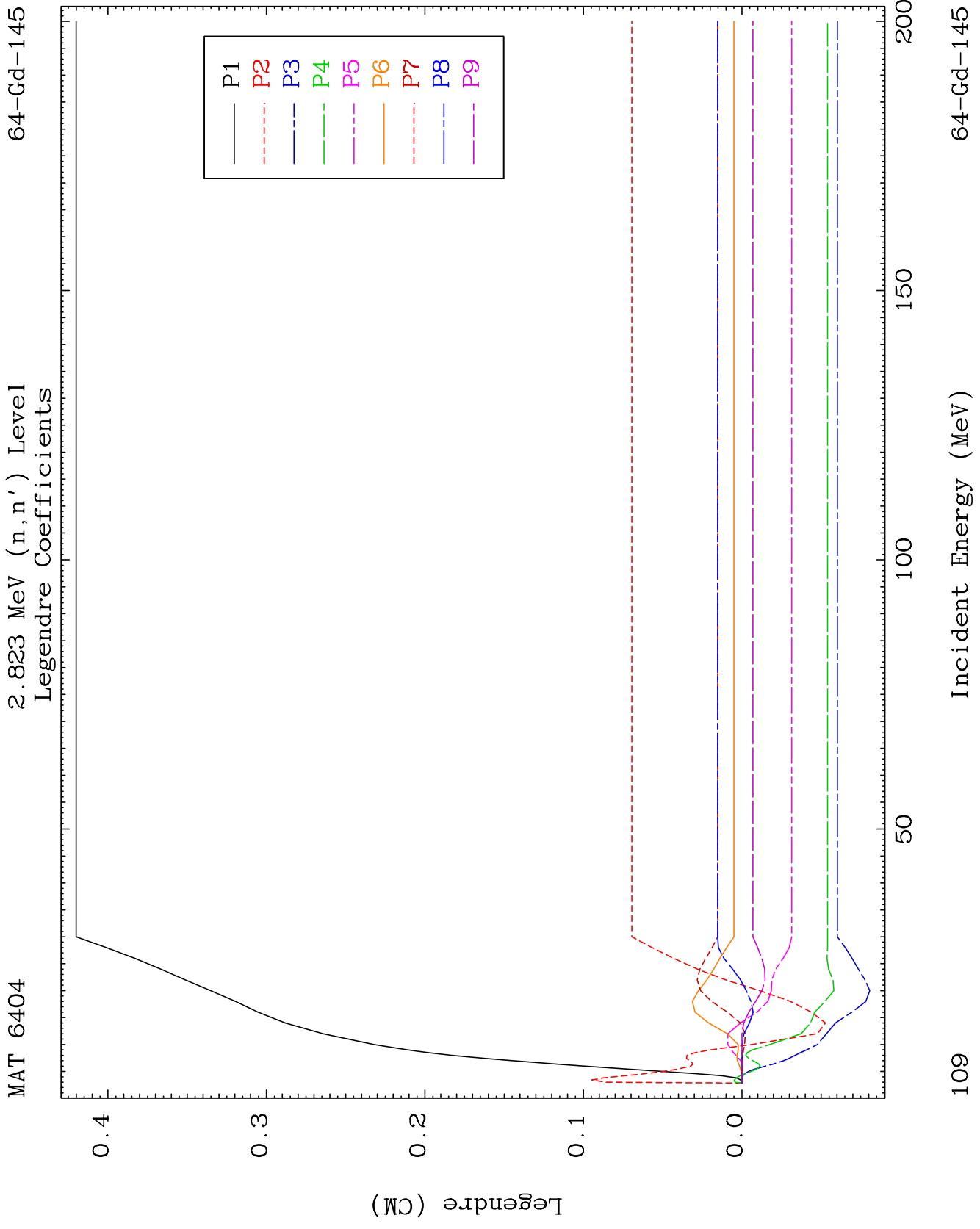
64-Gd-145

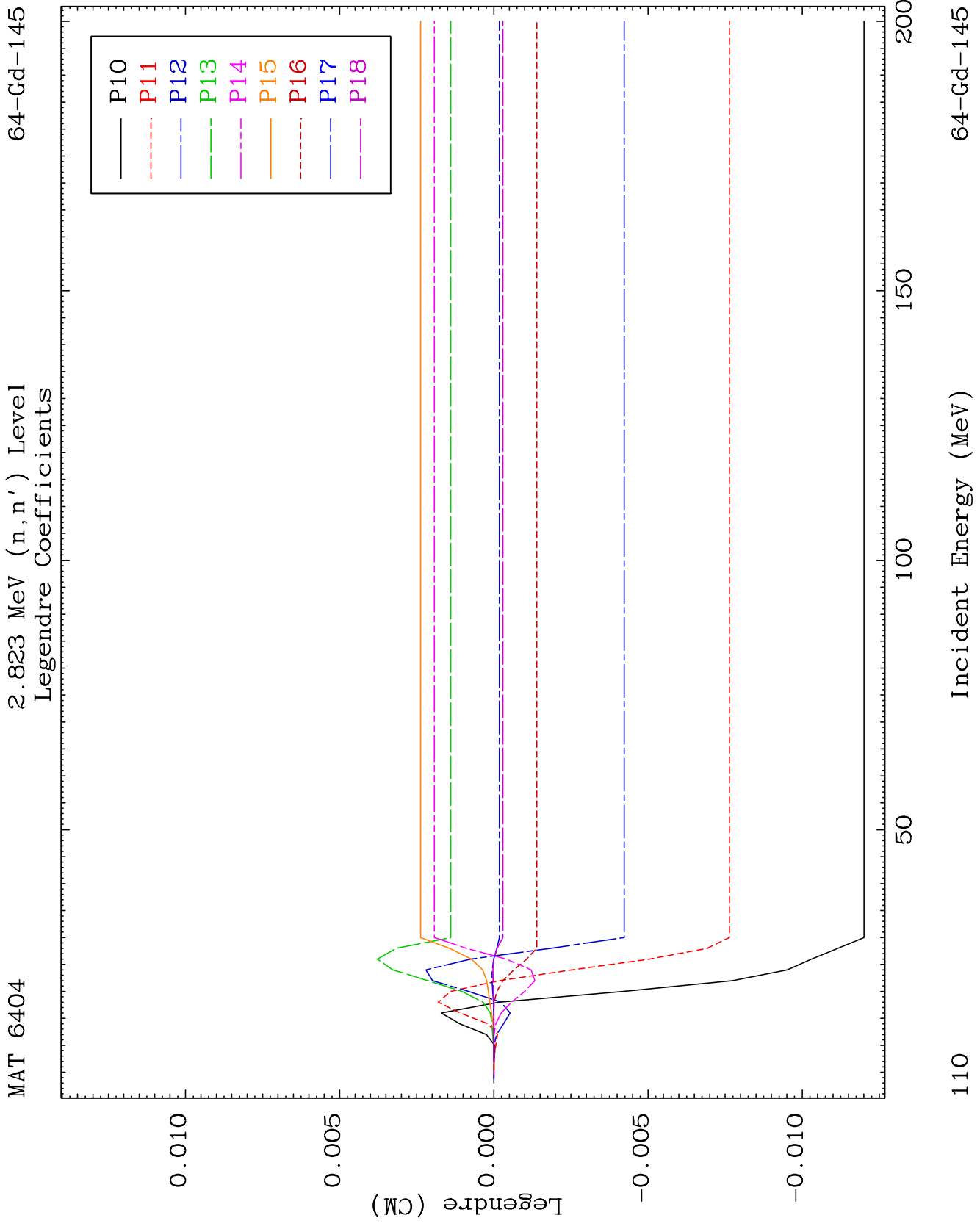
MAT 6404

2.784 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



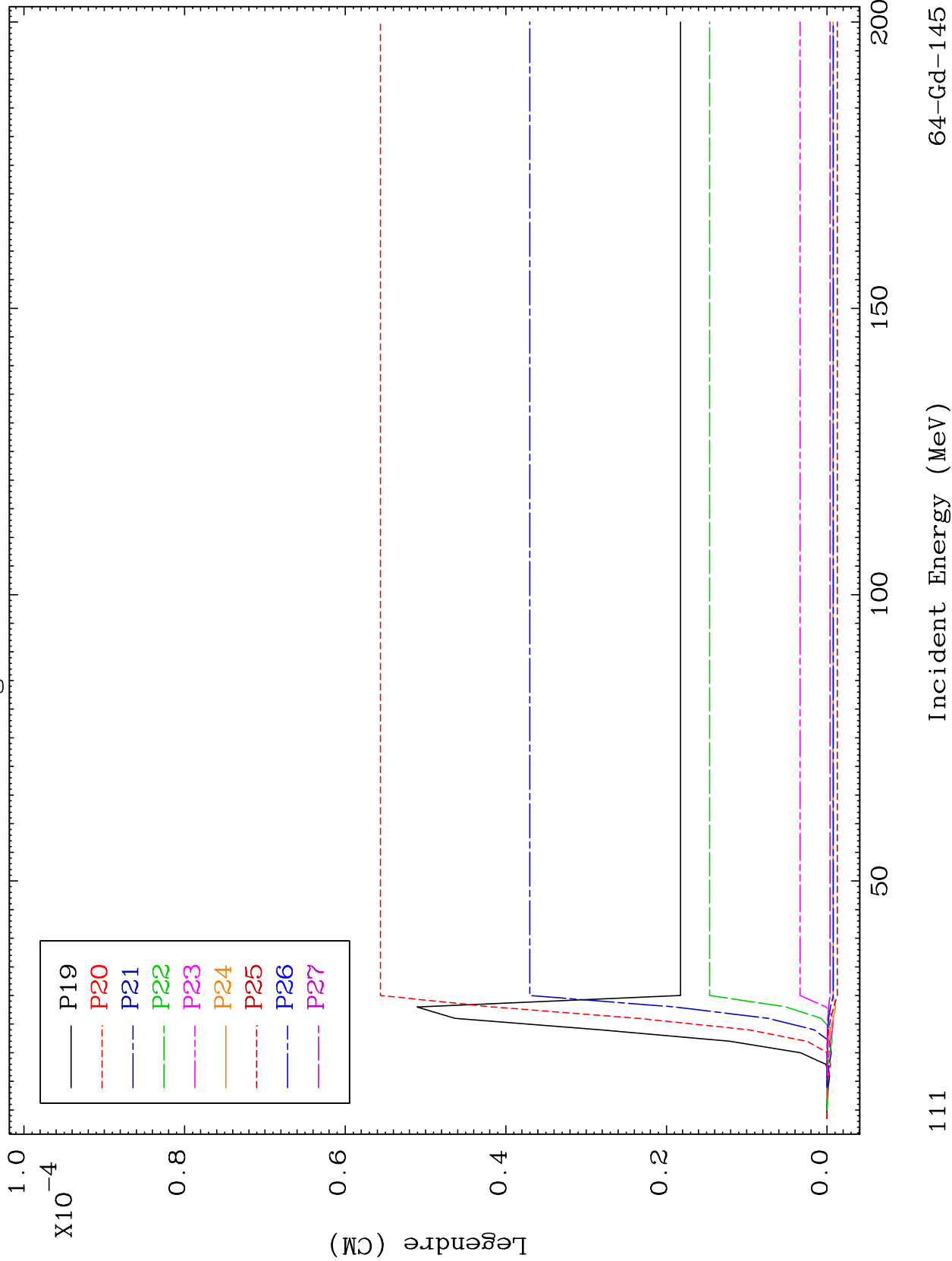




MAT 6404

2.823 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145

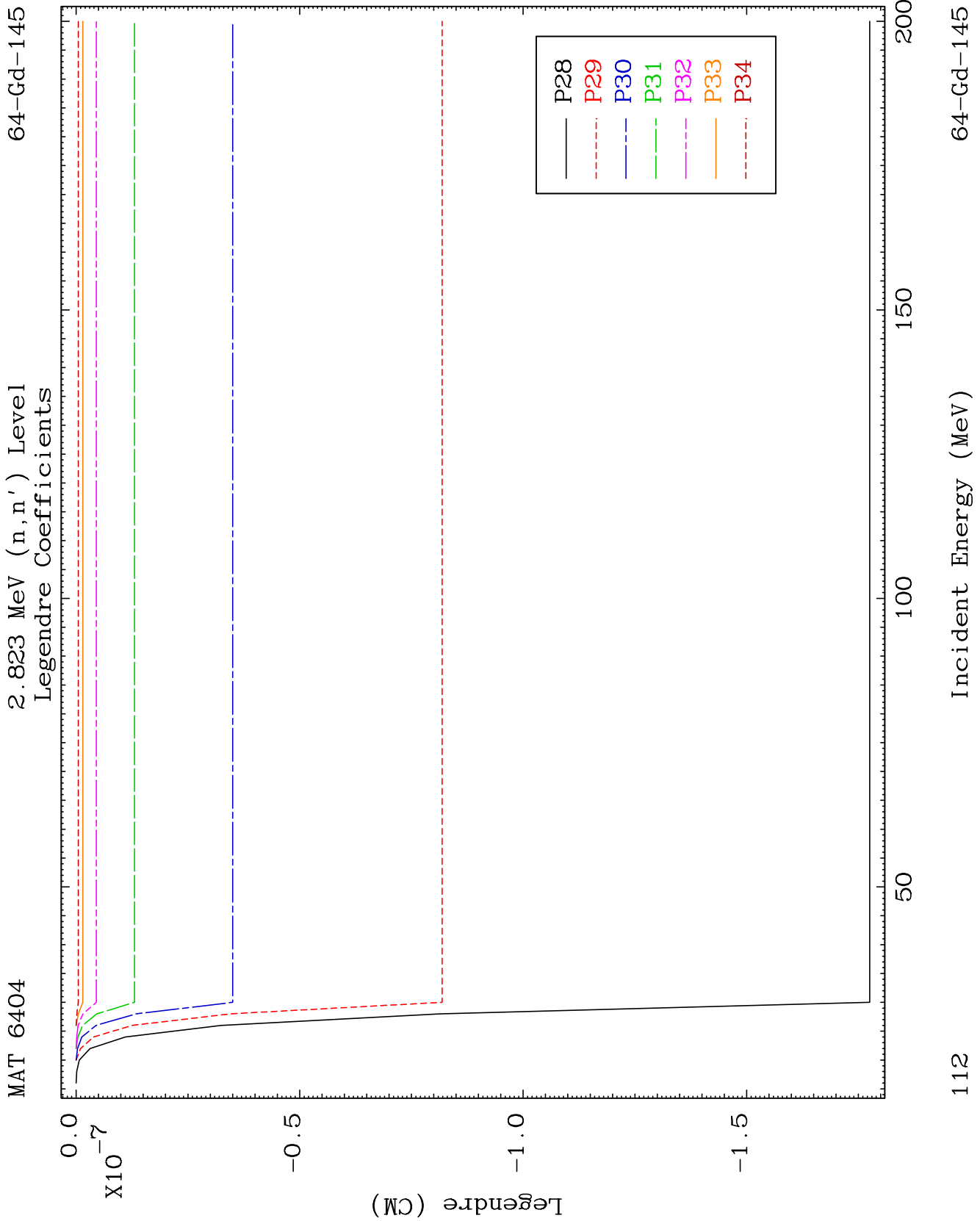


111

Incident Energy (MeV)

64-Gd-145

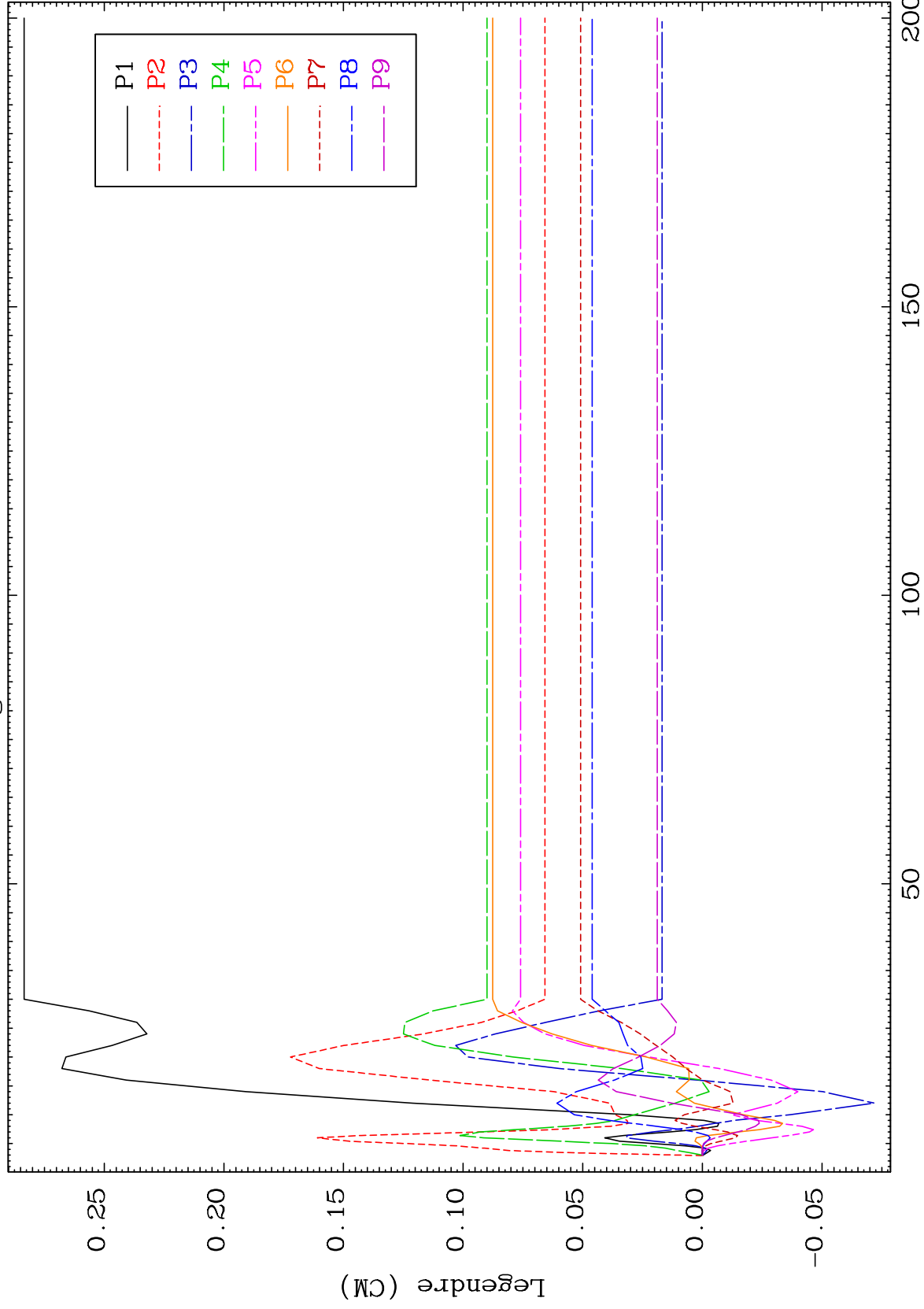




MAT 6404

2.873 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



113

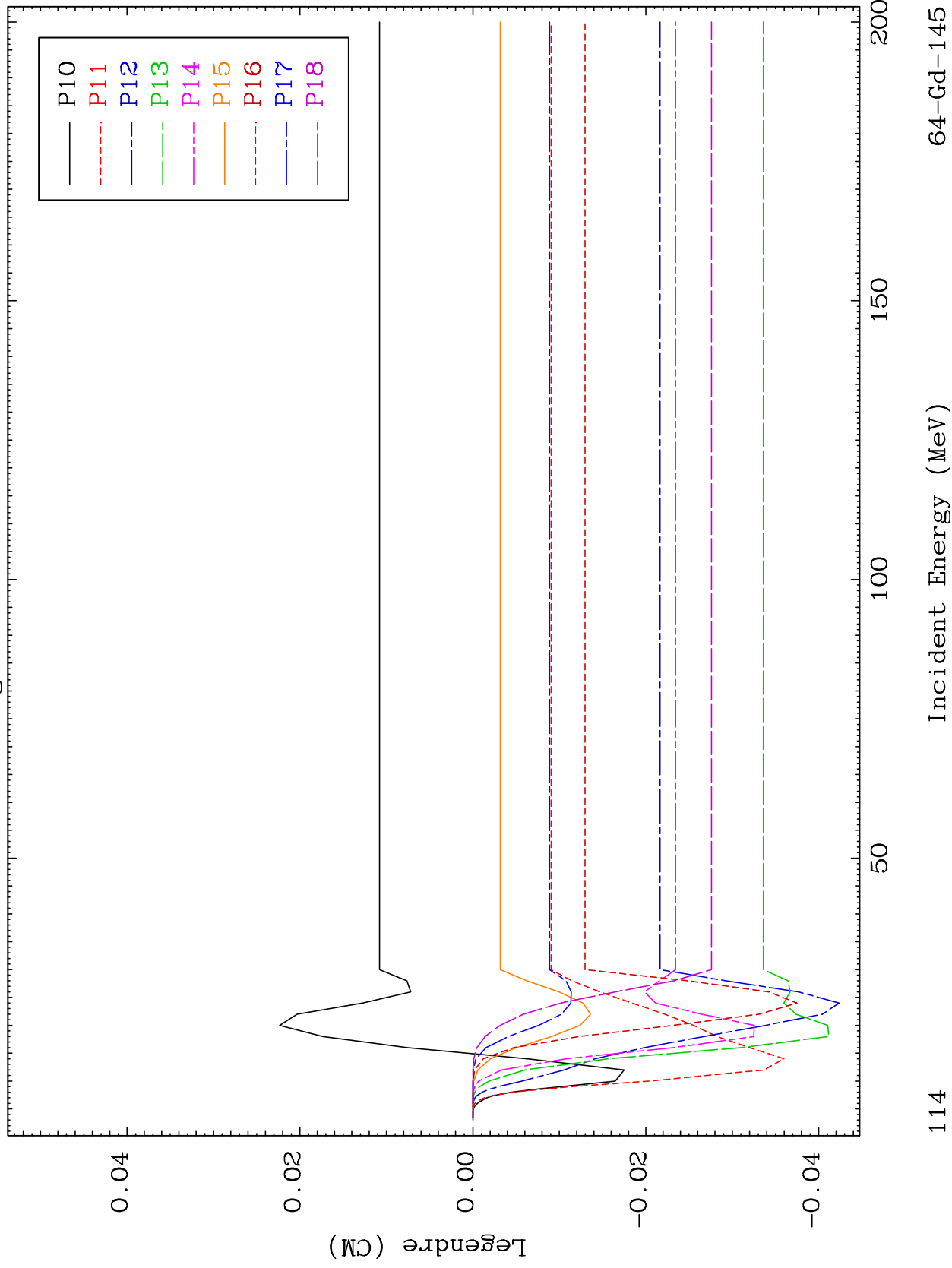
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.873 MeV (n,n') Level  
Legendre Coefficients

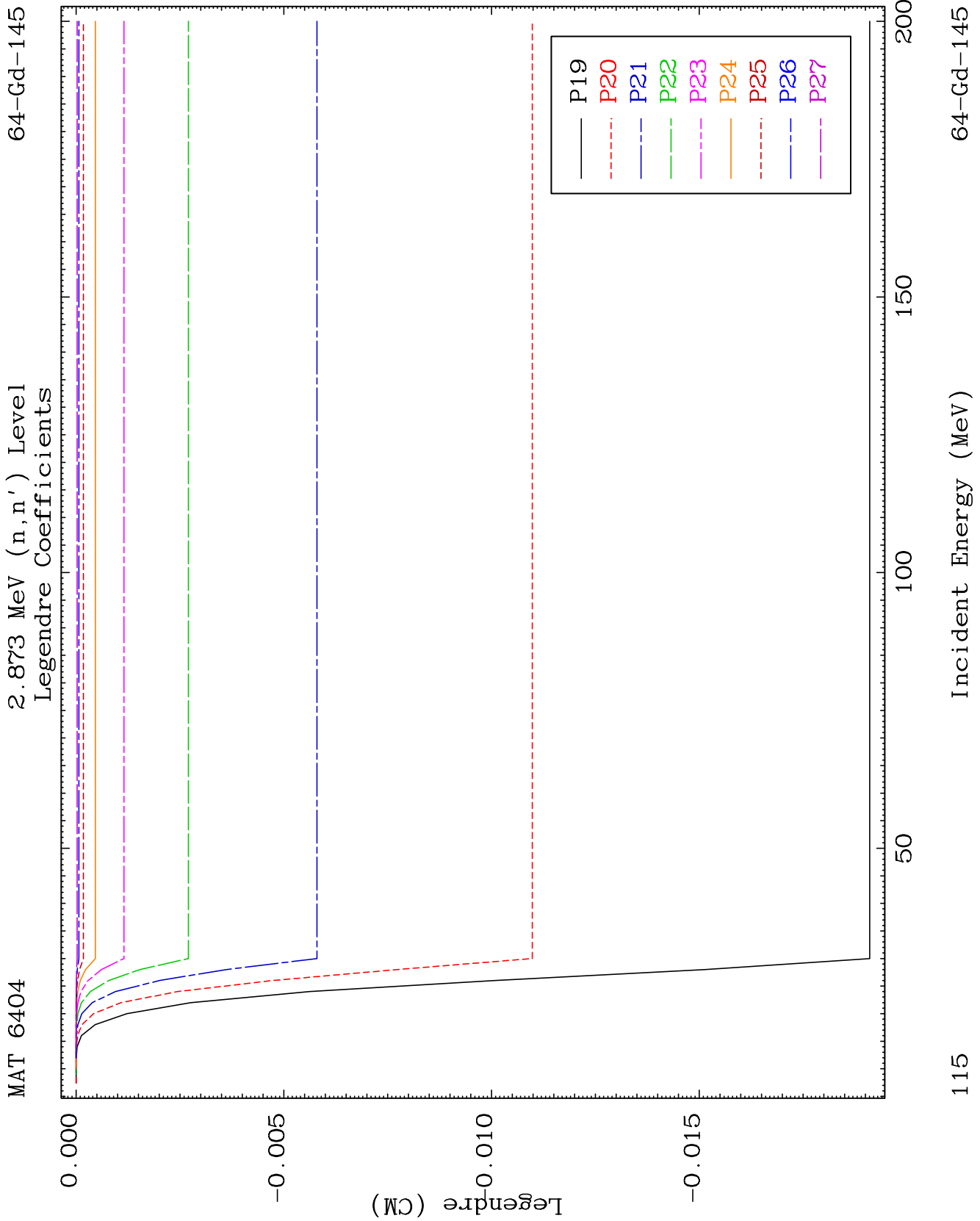
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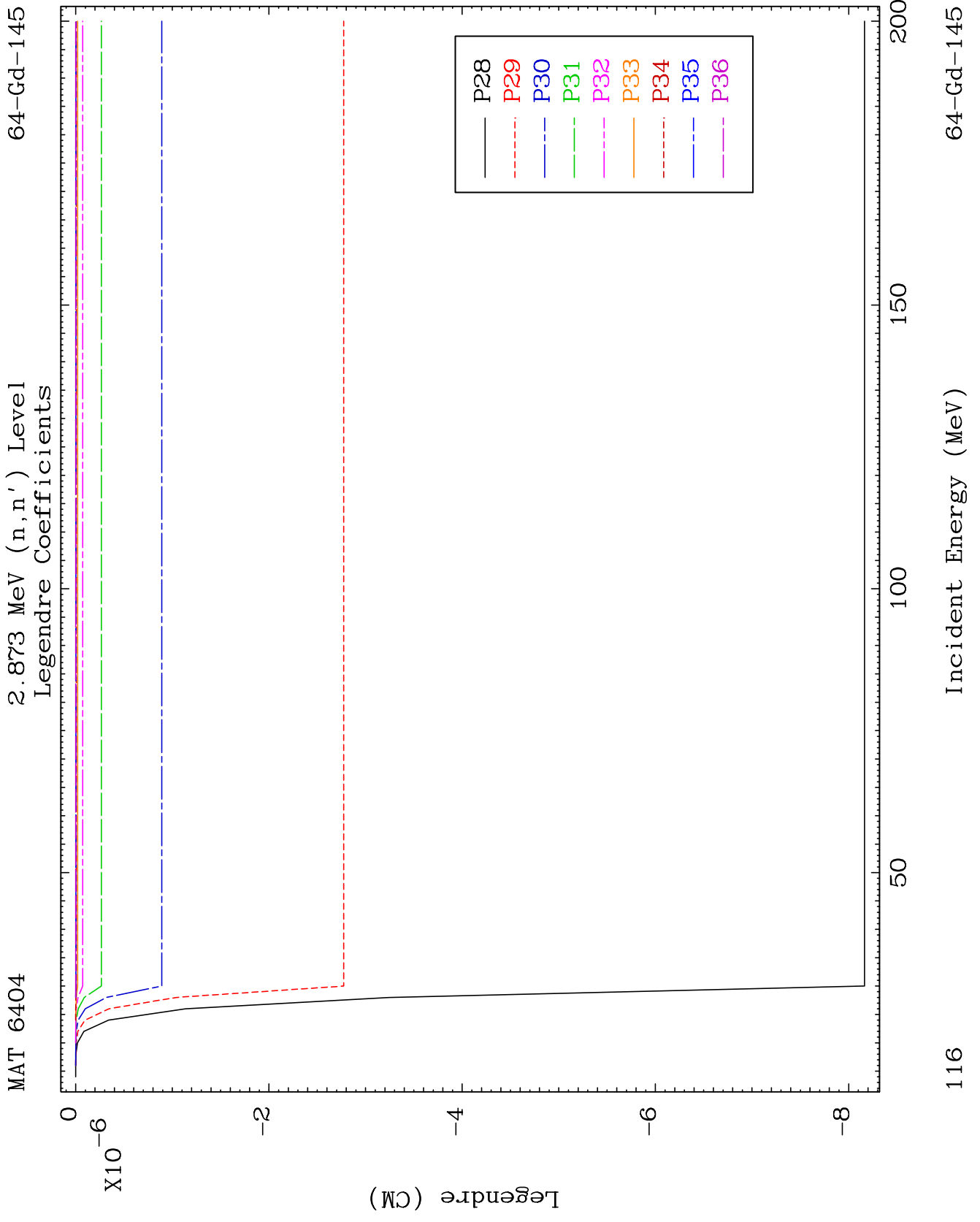


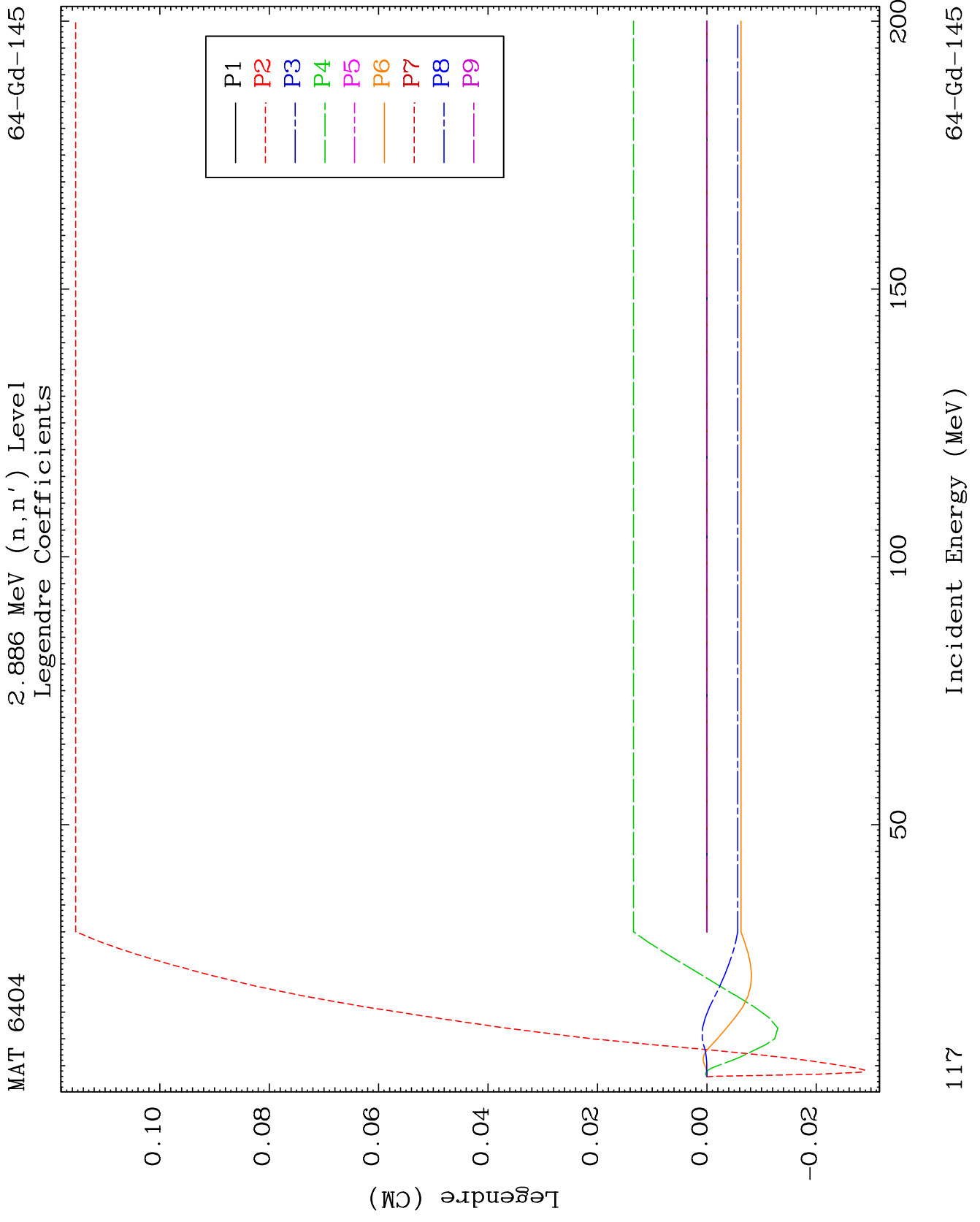
114

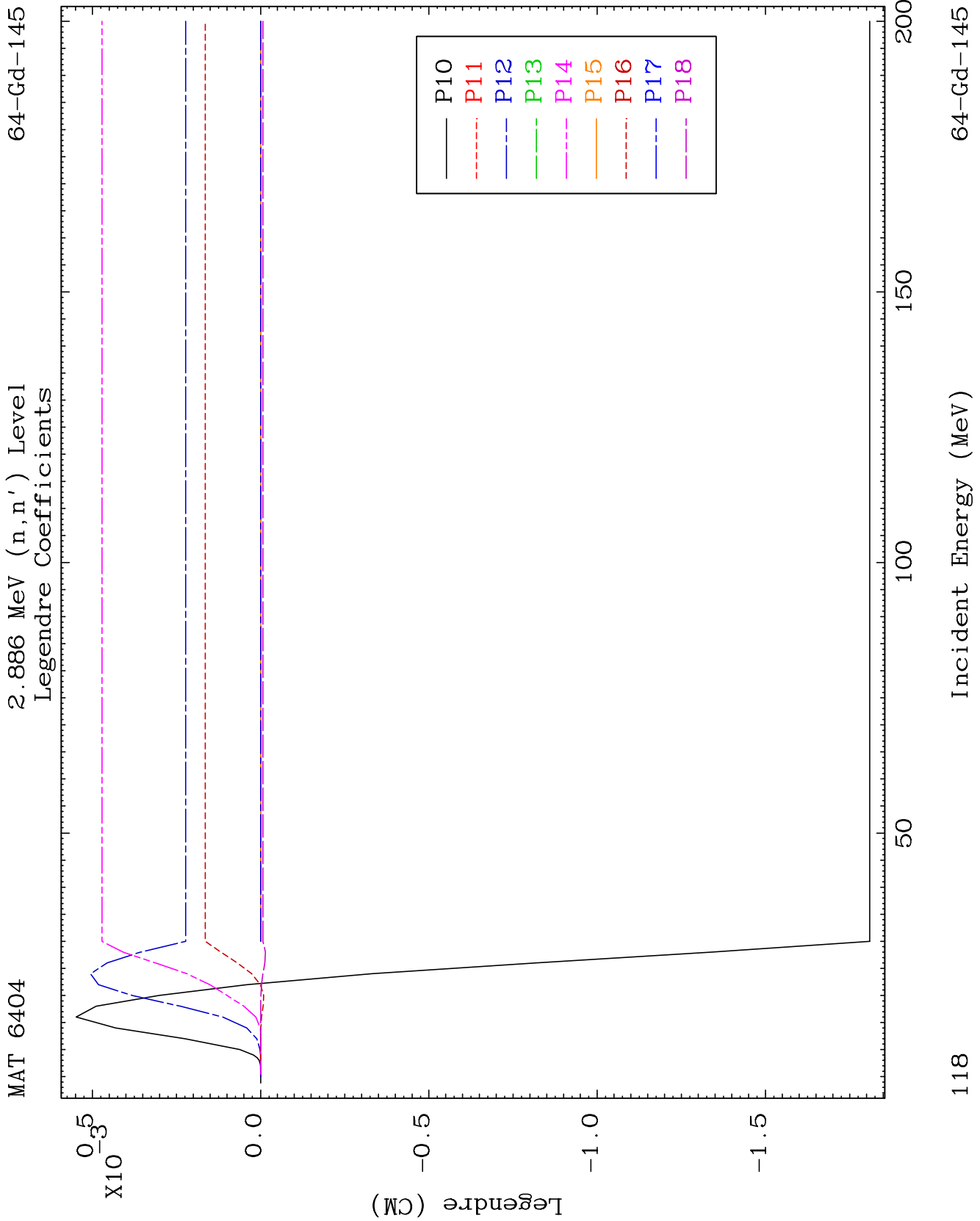
Incident Energy (MeV)

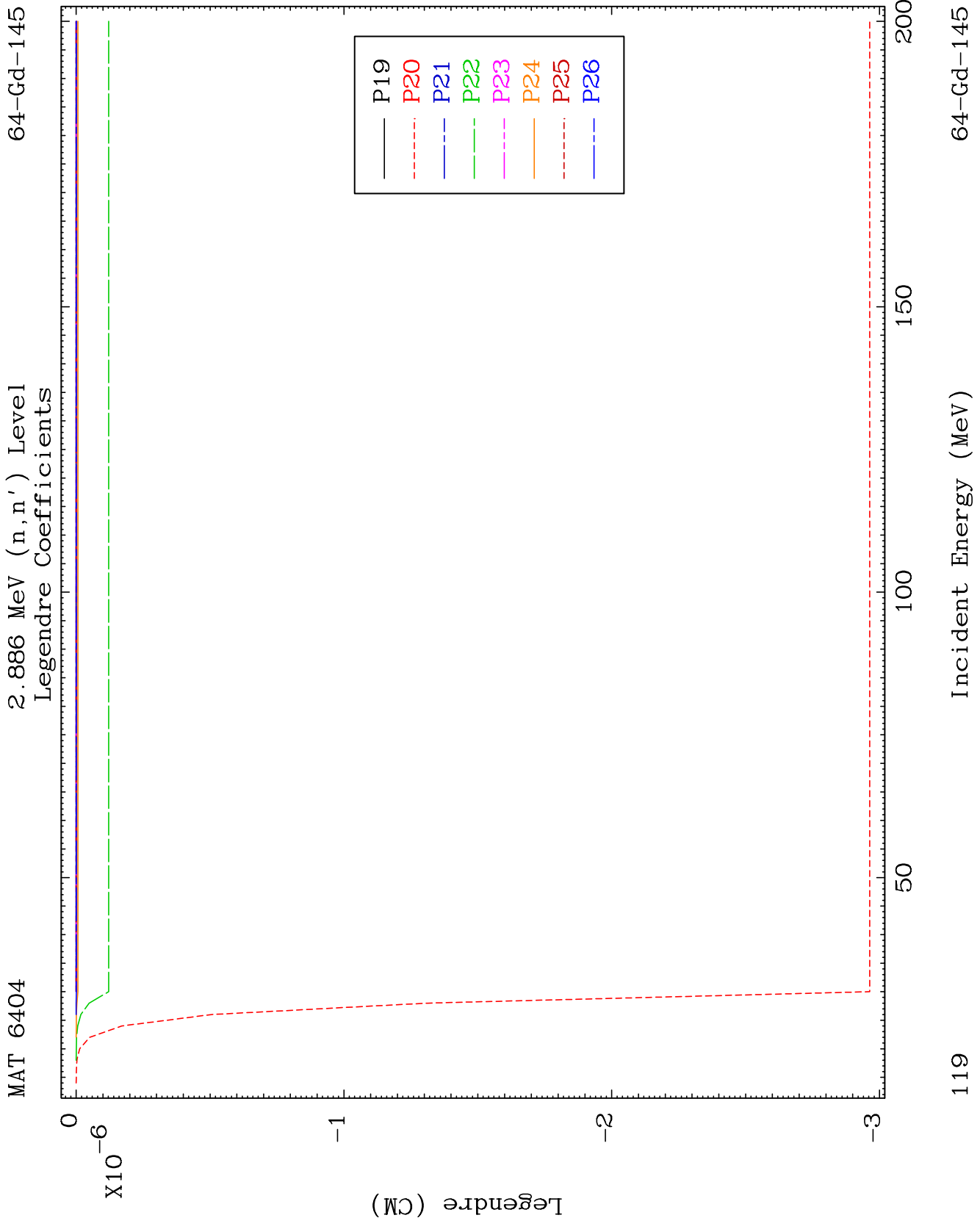
64-Gd-145











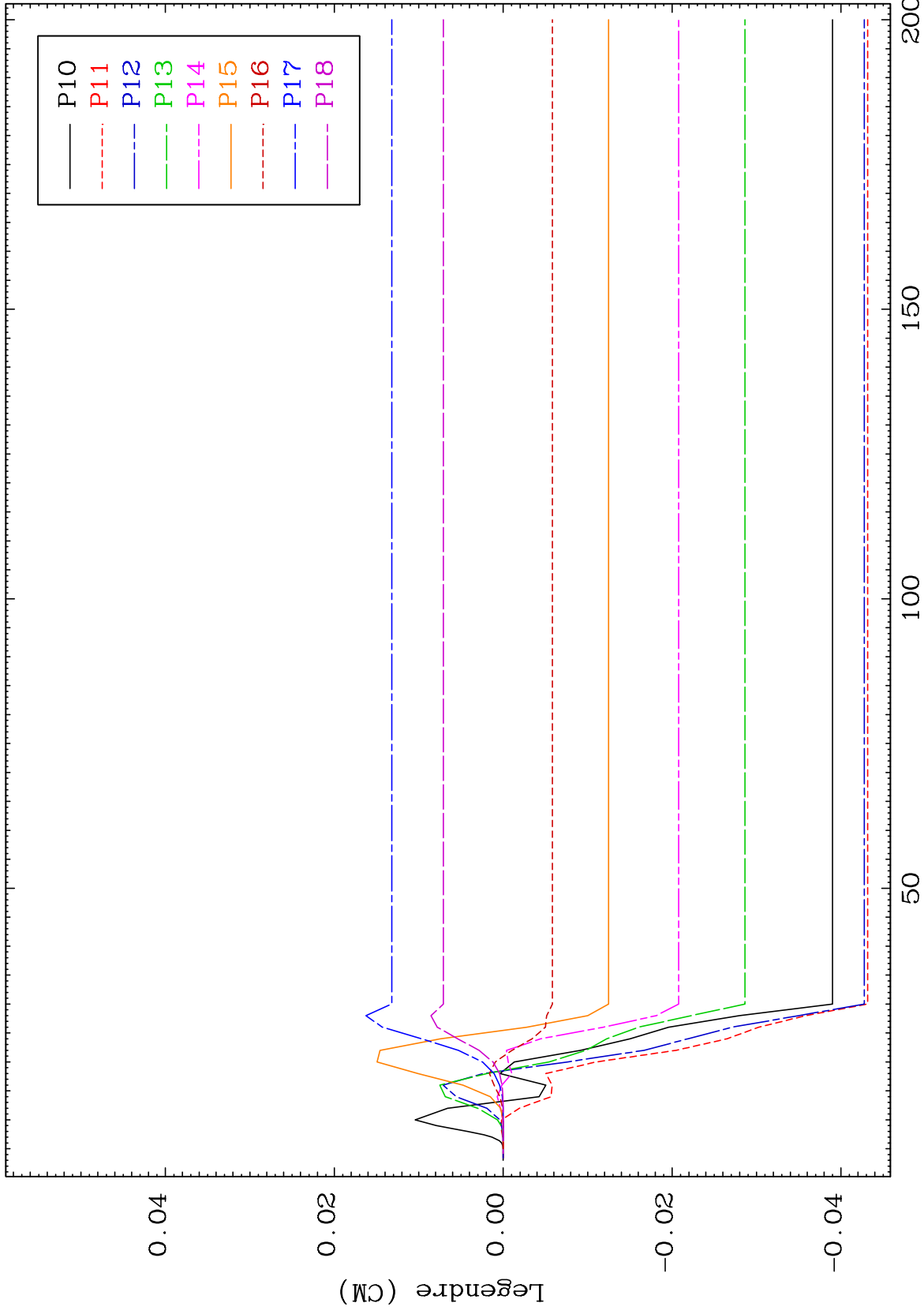




MAT 6404

2.935 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



121

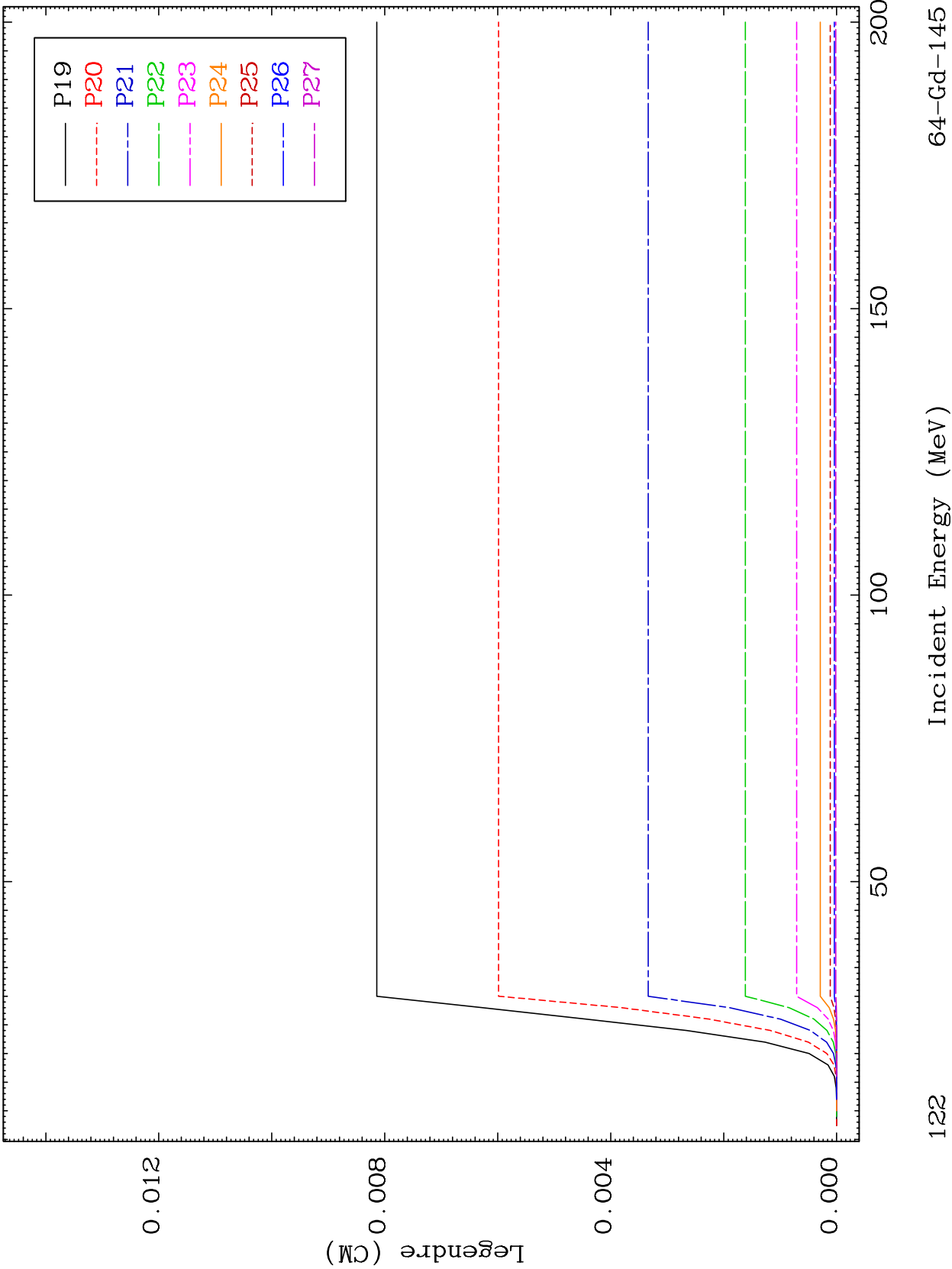
Incident Energy (MeV)

64-Gd-145

MAT 6404

2.935 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



122

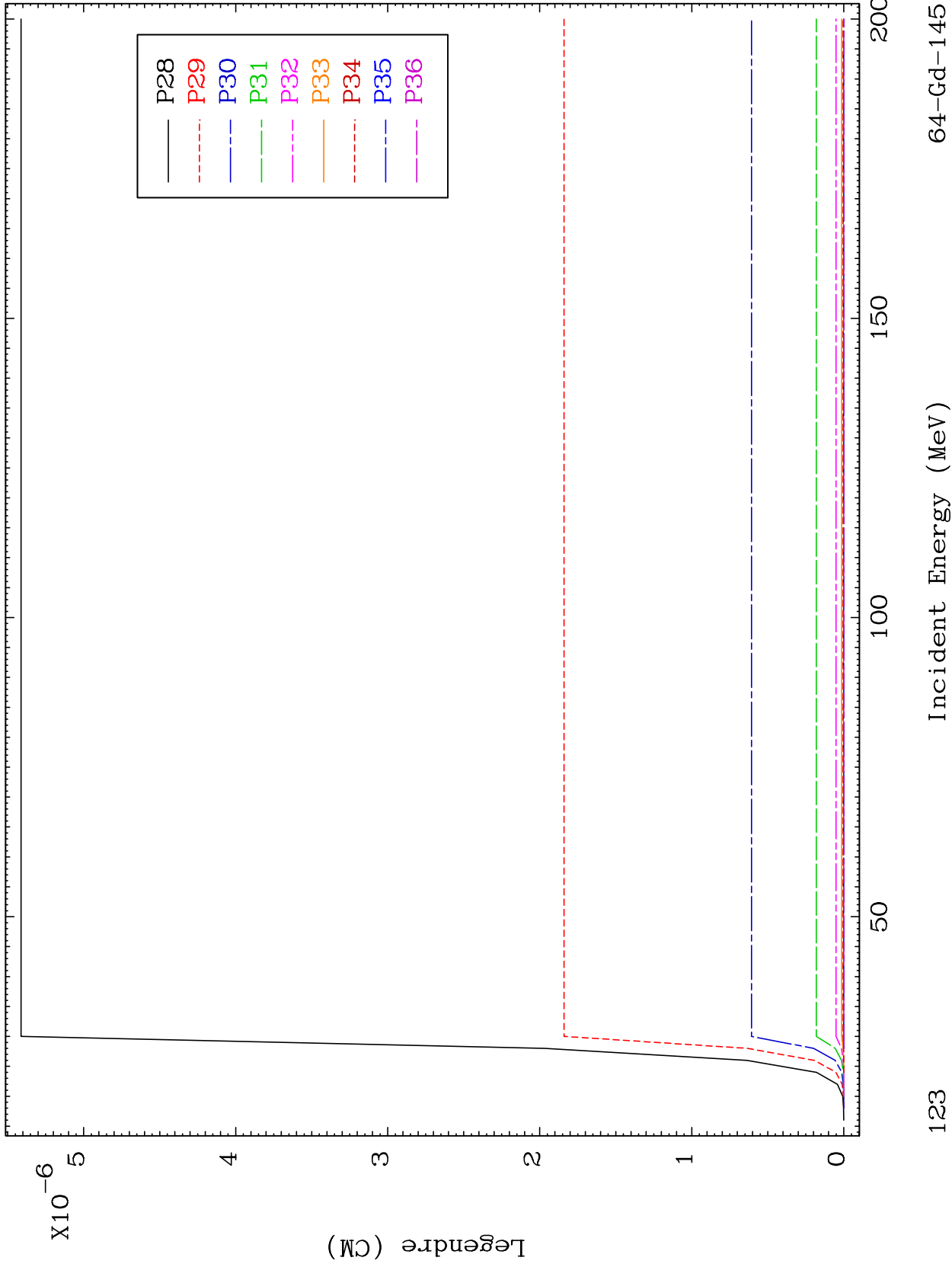
Incident Energy (MeV)

64-Gd-145

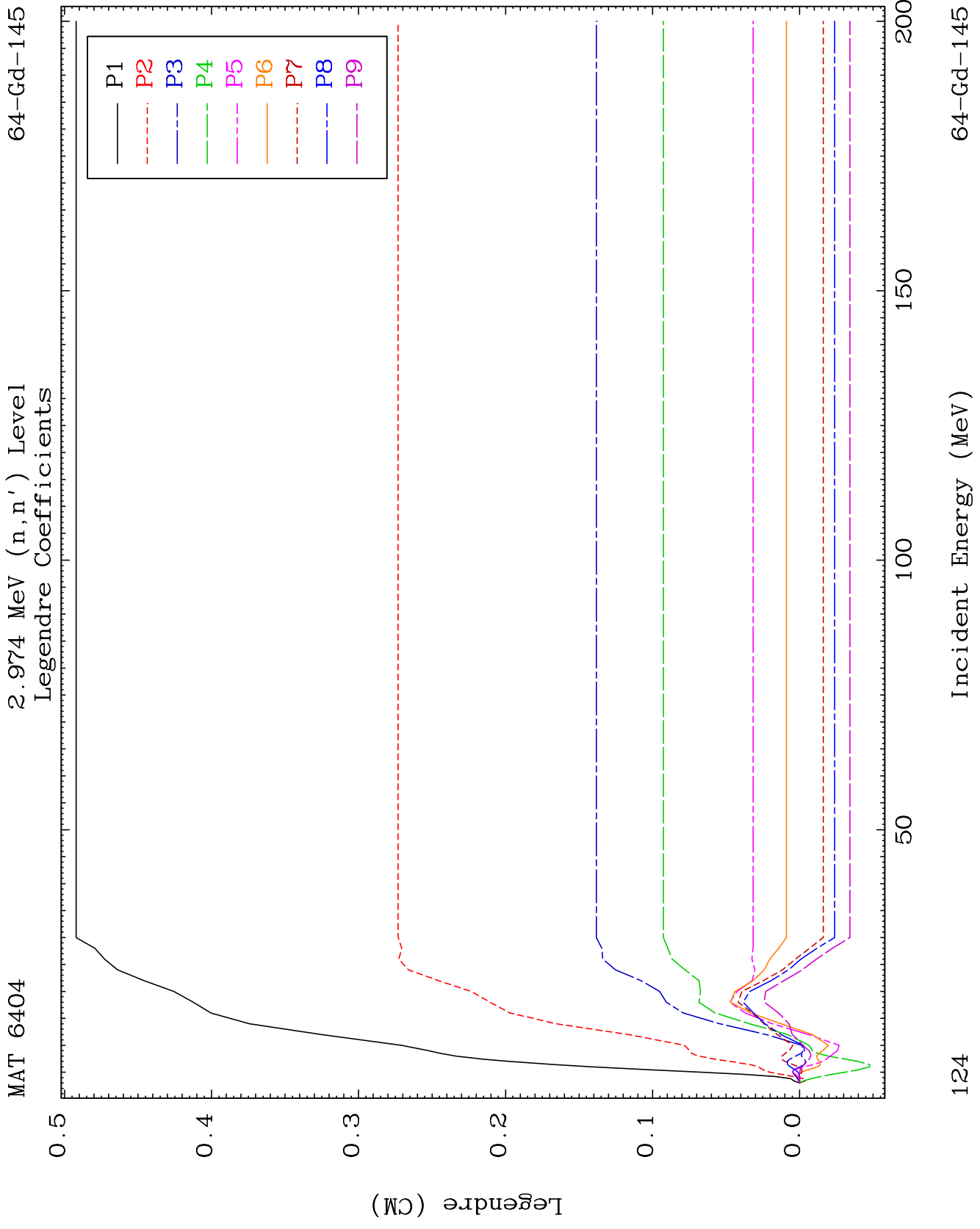
MAT 6404

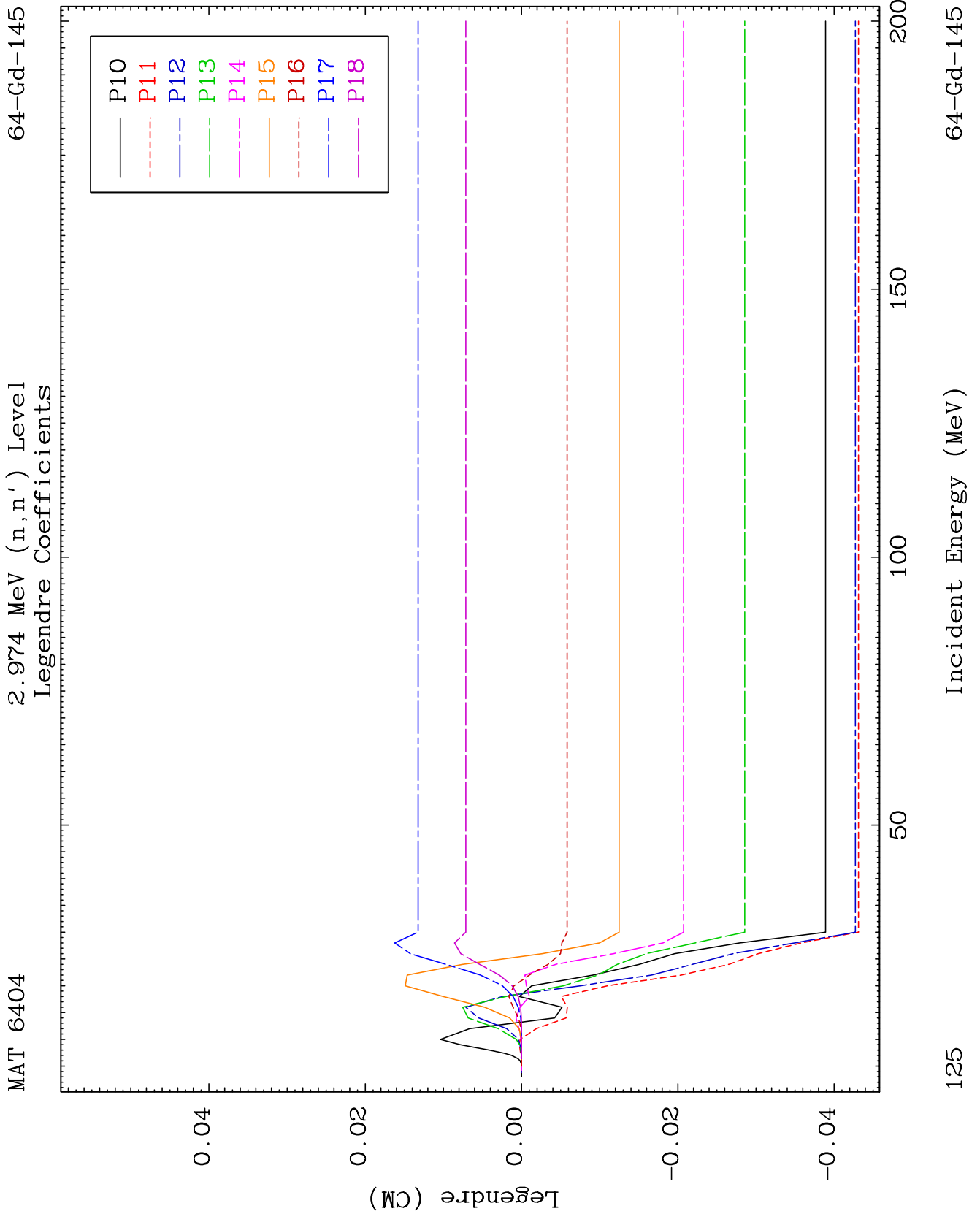
2.935 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



123

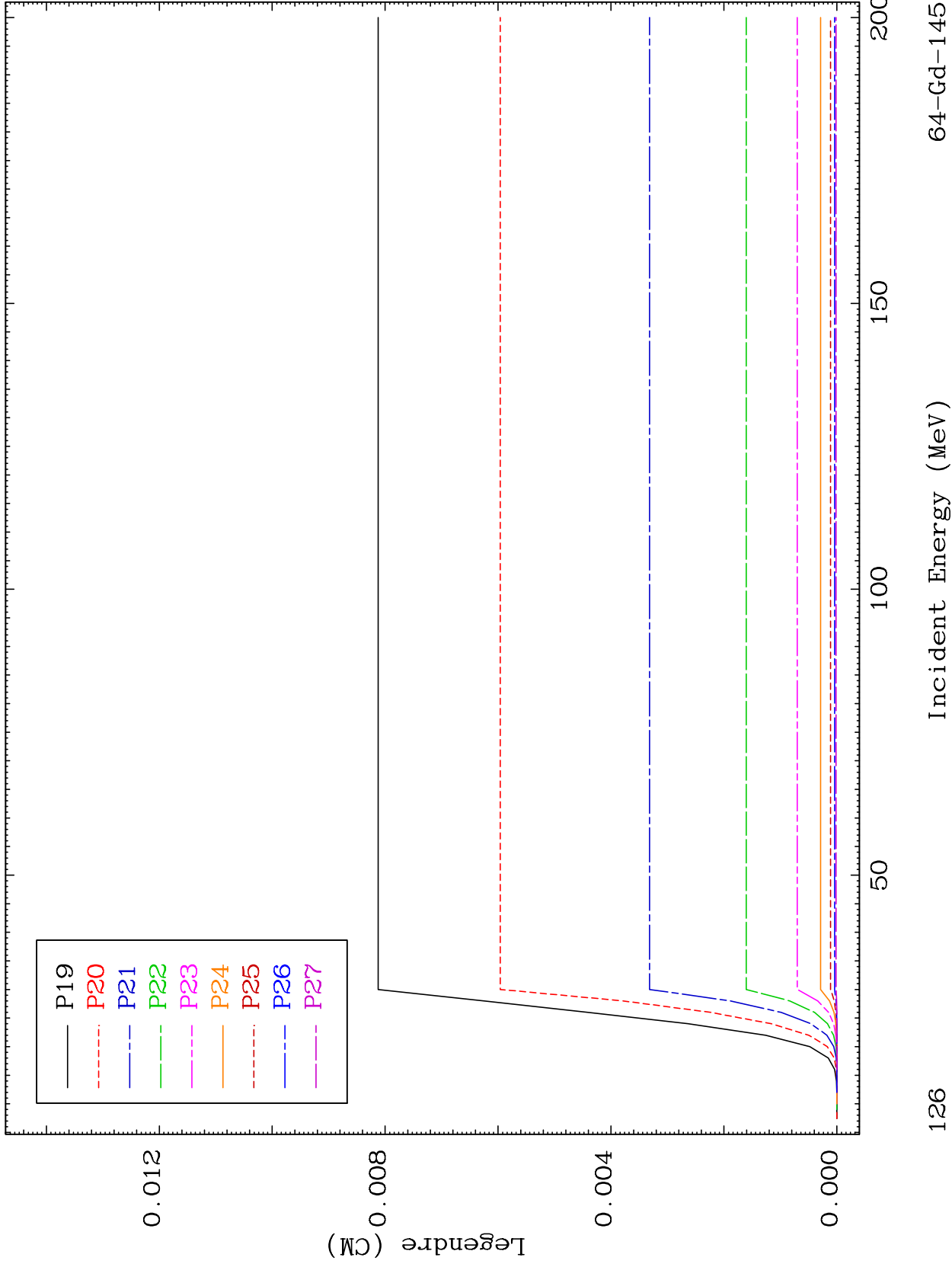




MAT 6404

2.974 MeV (n,n') Level  
Legendre Coefficients

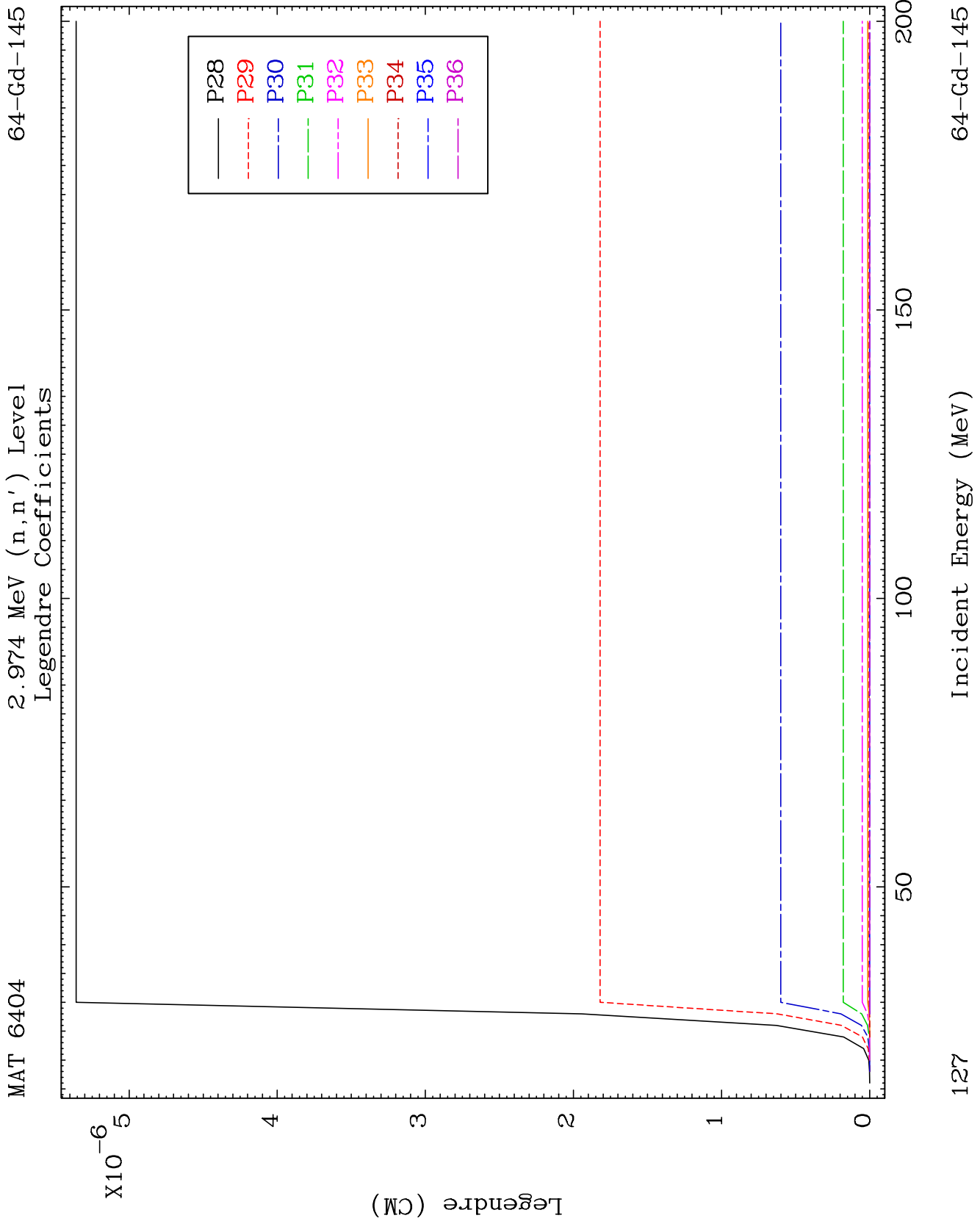
64-Gd-145



126

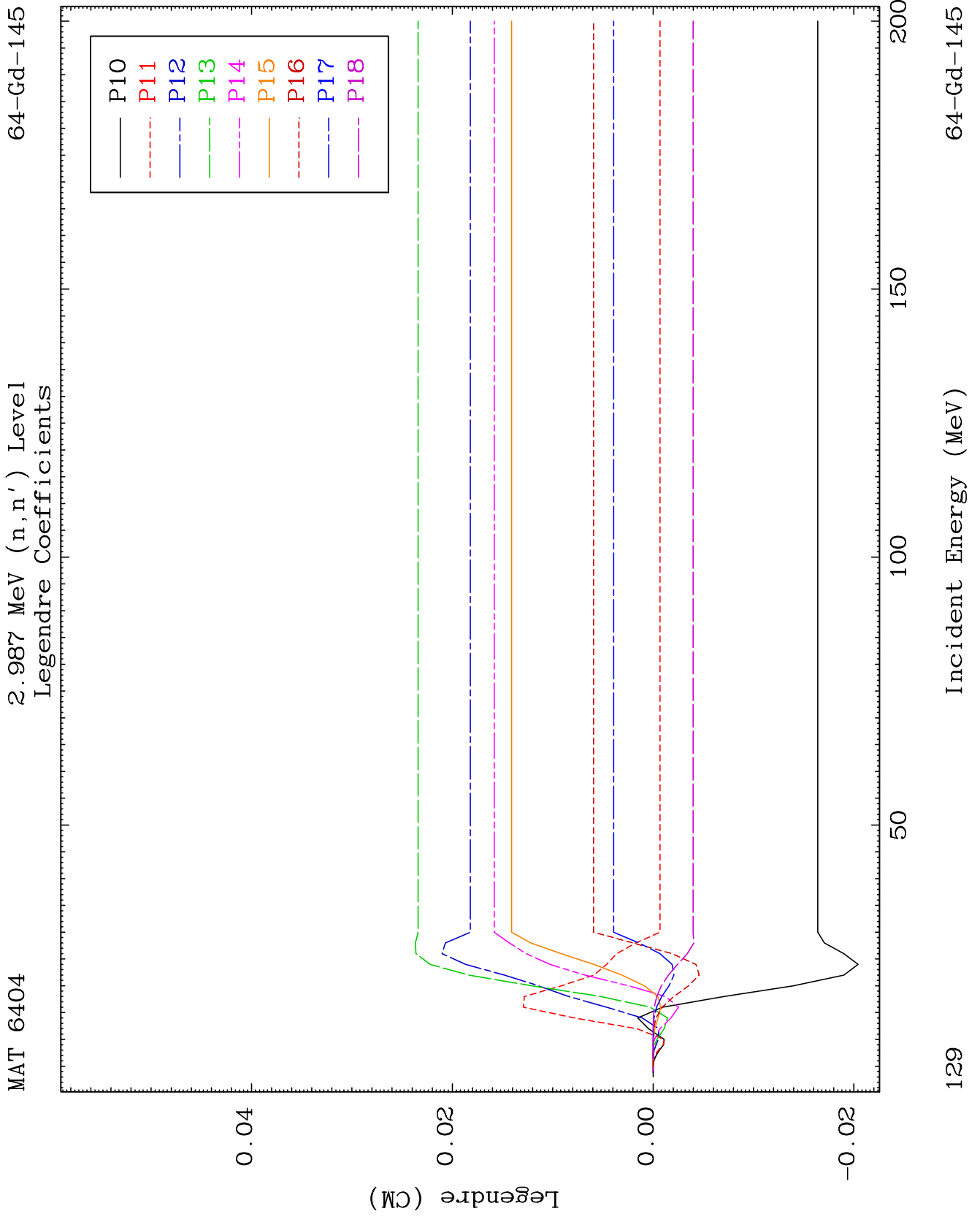
Incident Energy (MeV)

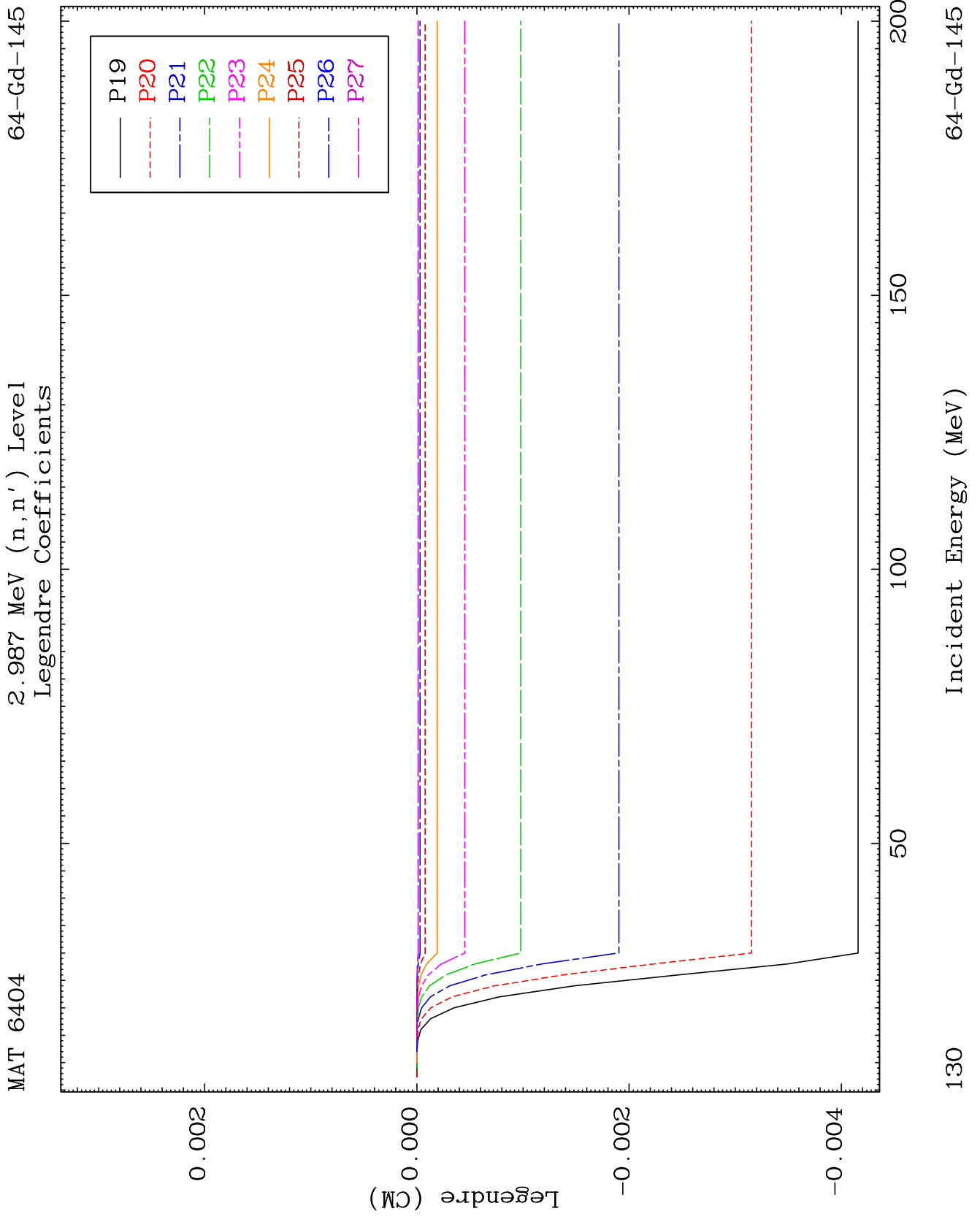
64-Gd-145

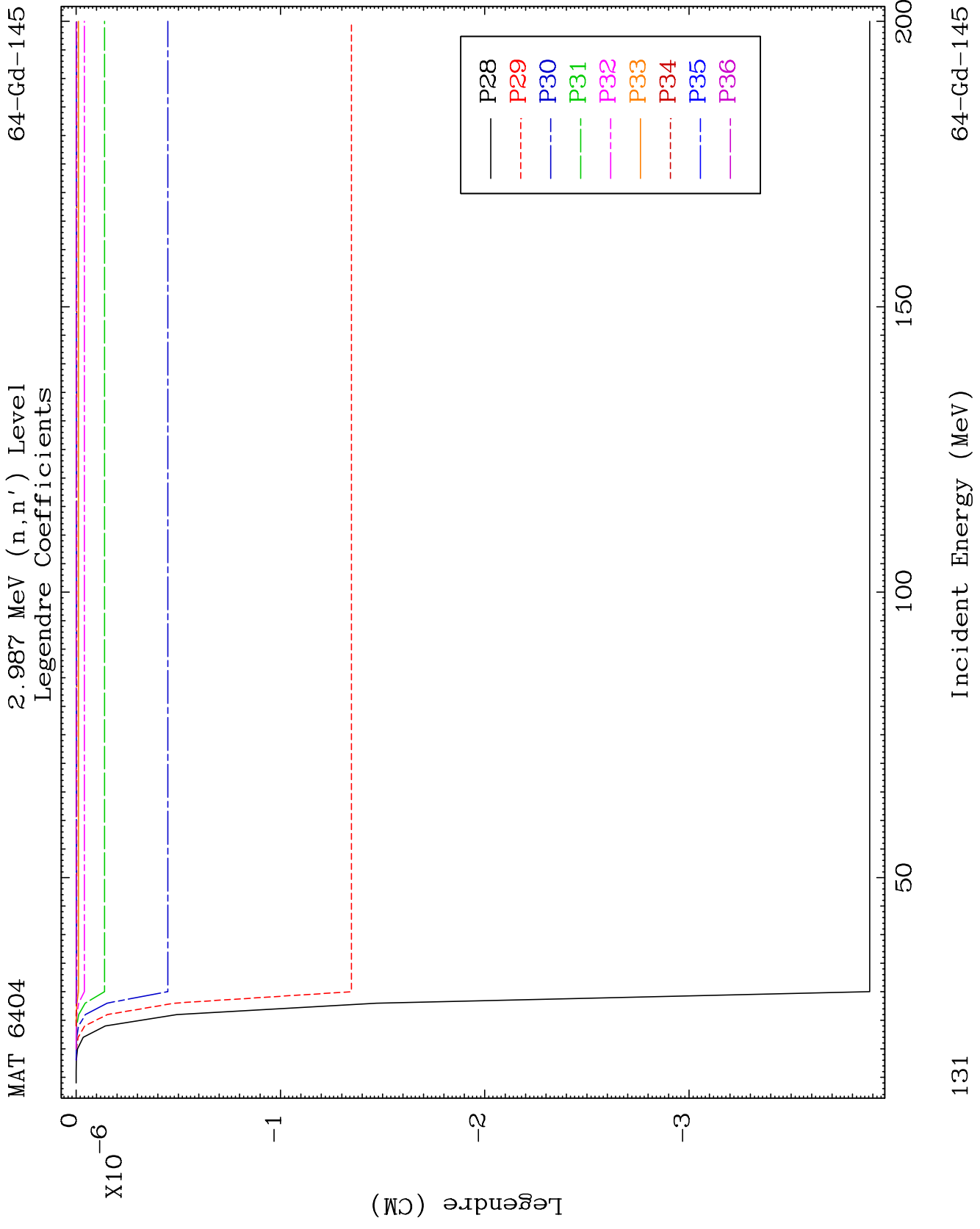








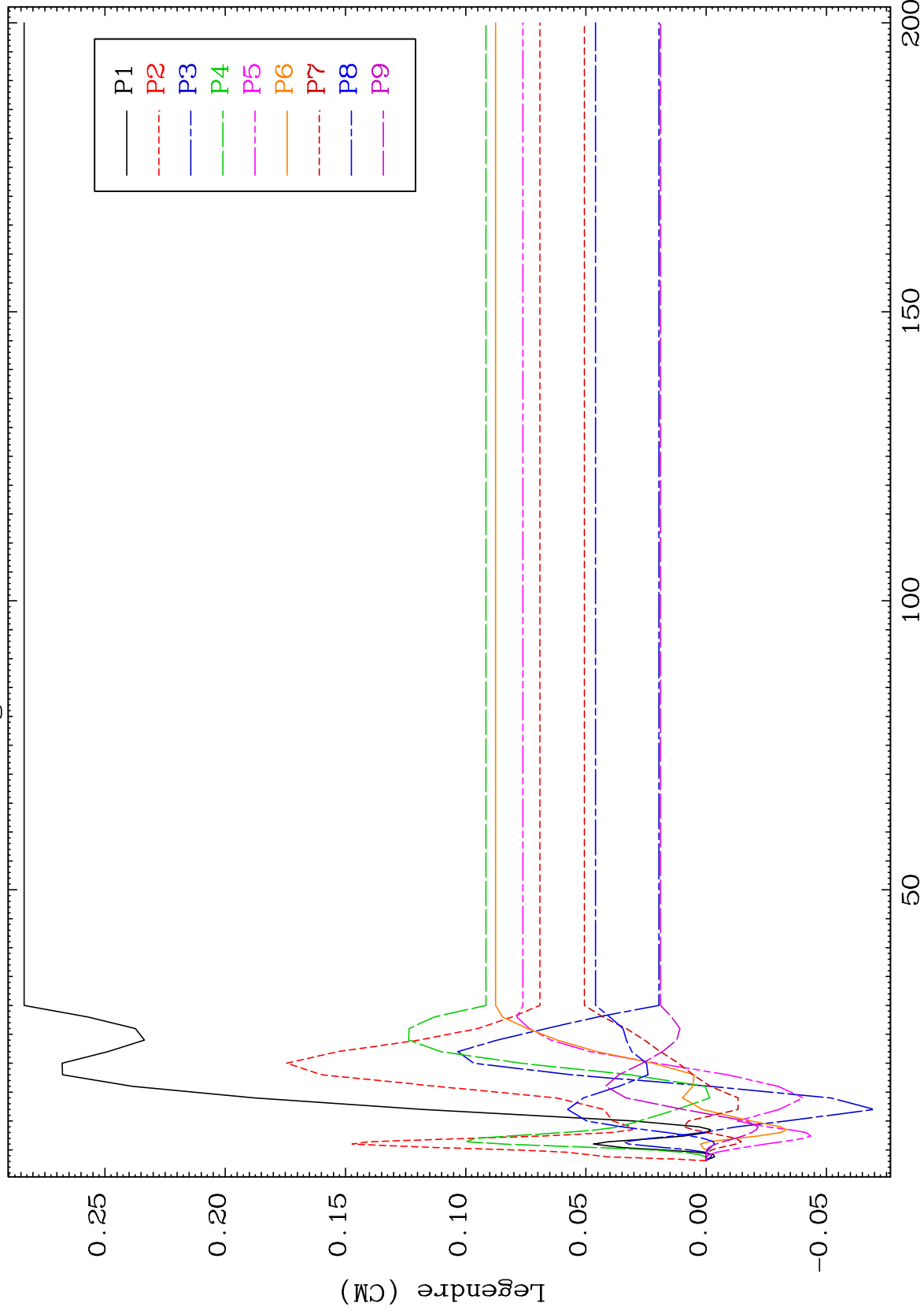




MAT 6404

3.105 MeV (n,n') Level  
Legendre Coefficients

64-Gd-145



132

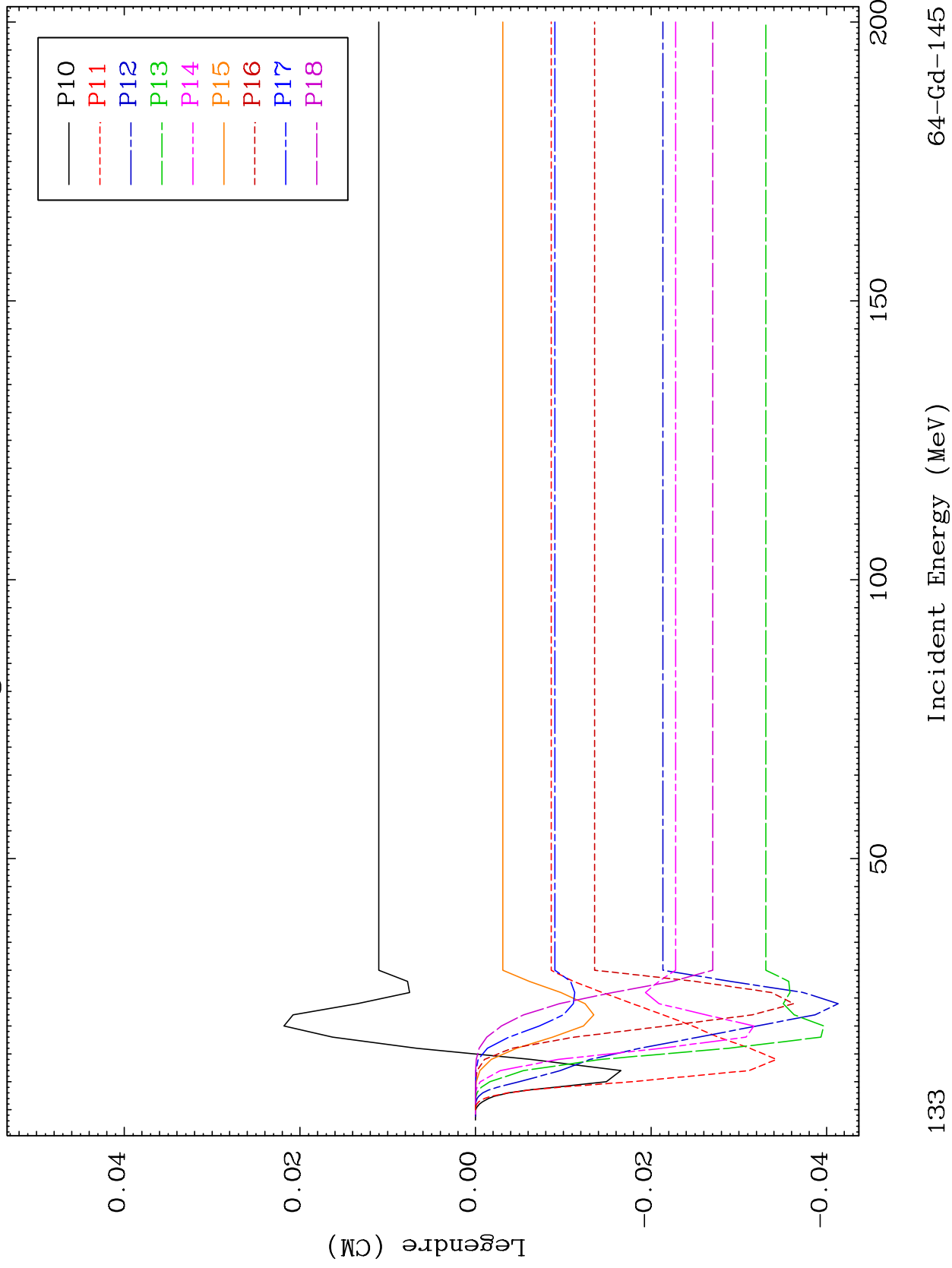
Incident Energy (MeV)

64-Gd-145

MAT 6404

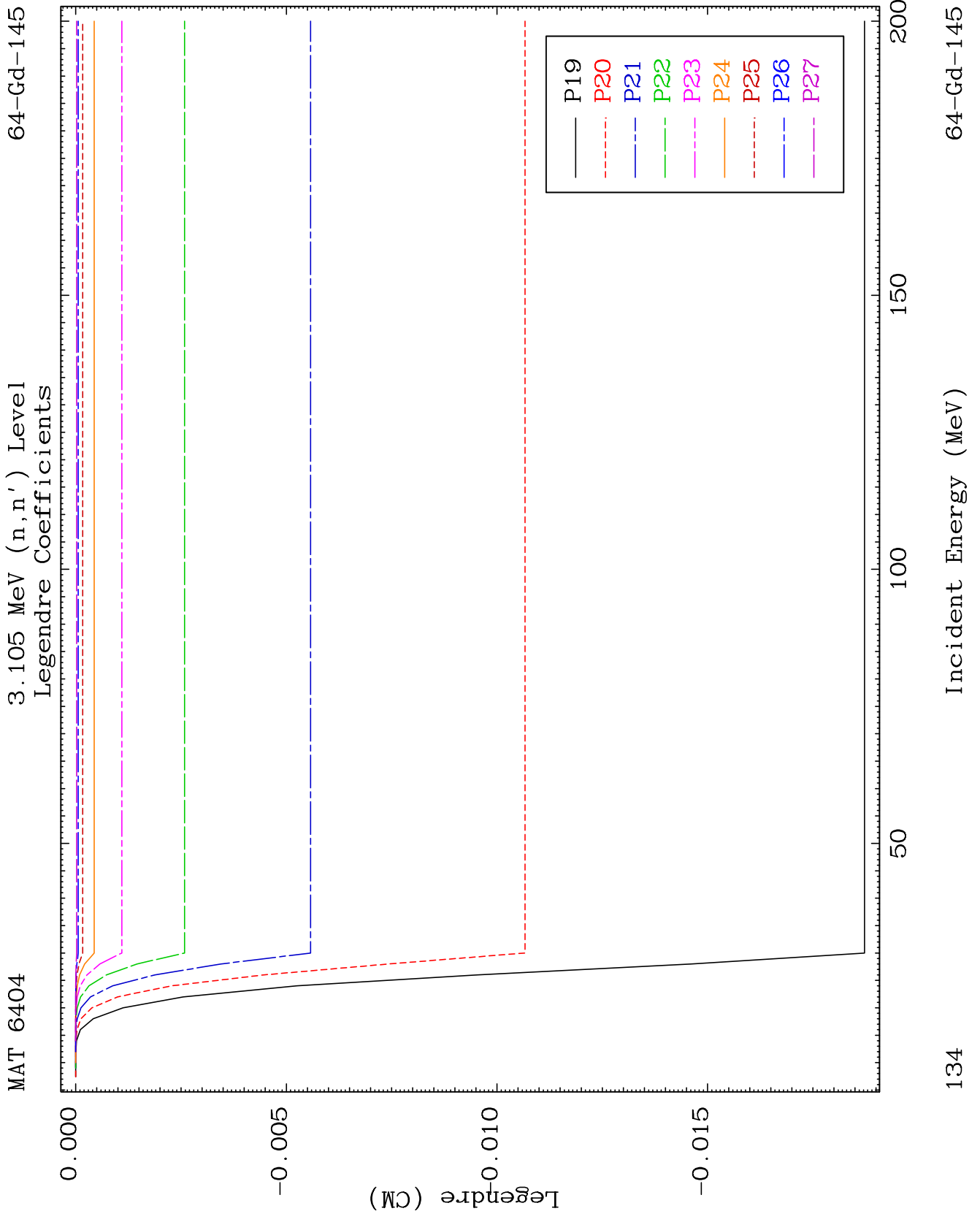
3.105 MeV (n,n') Level  
Legendre Coefficients

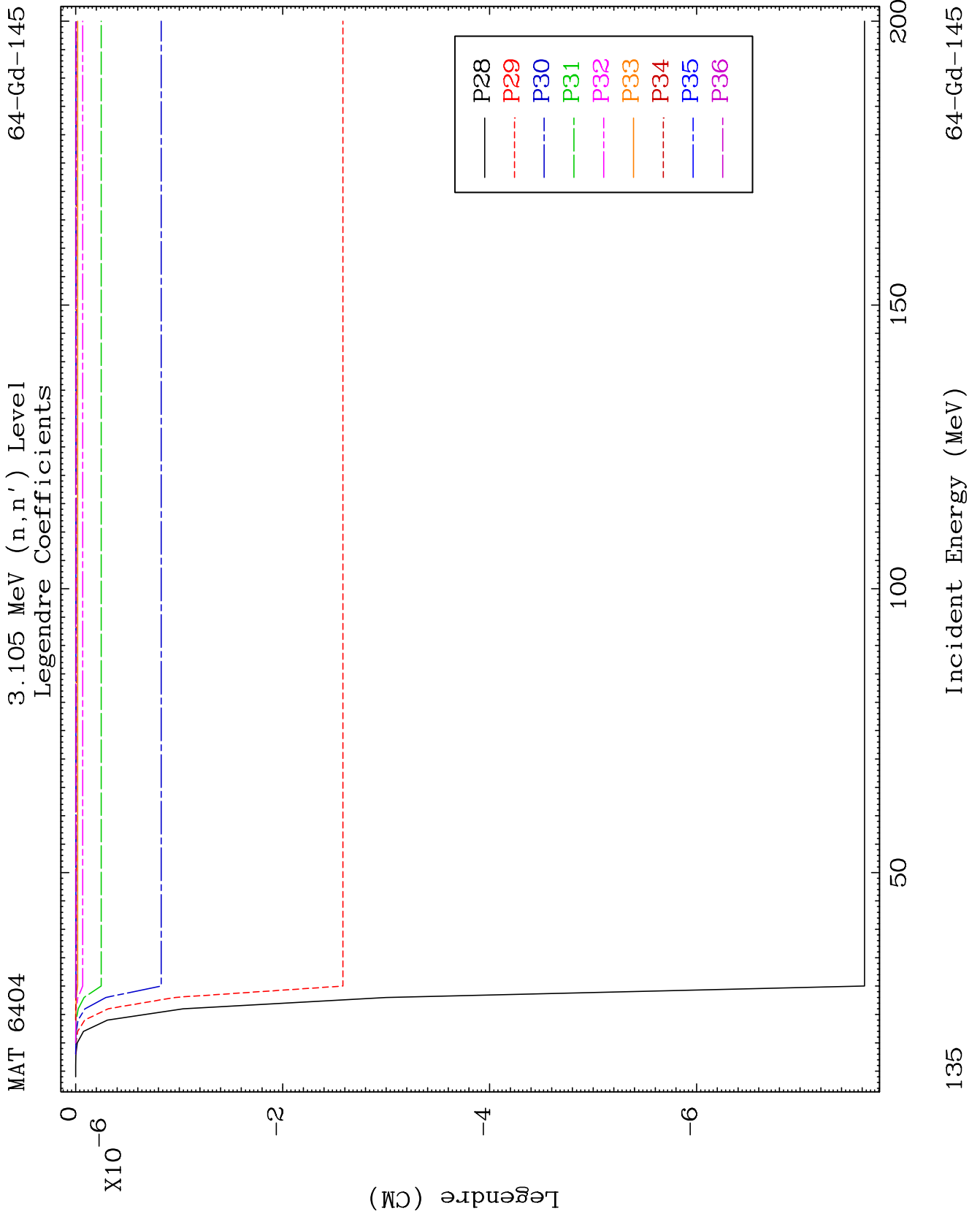
64-Gd-145



133

64-Gd-145



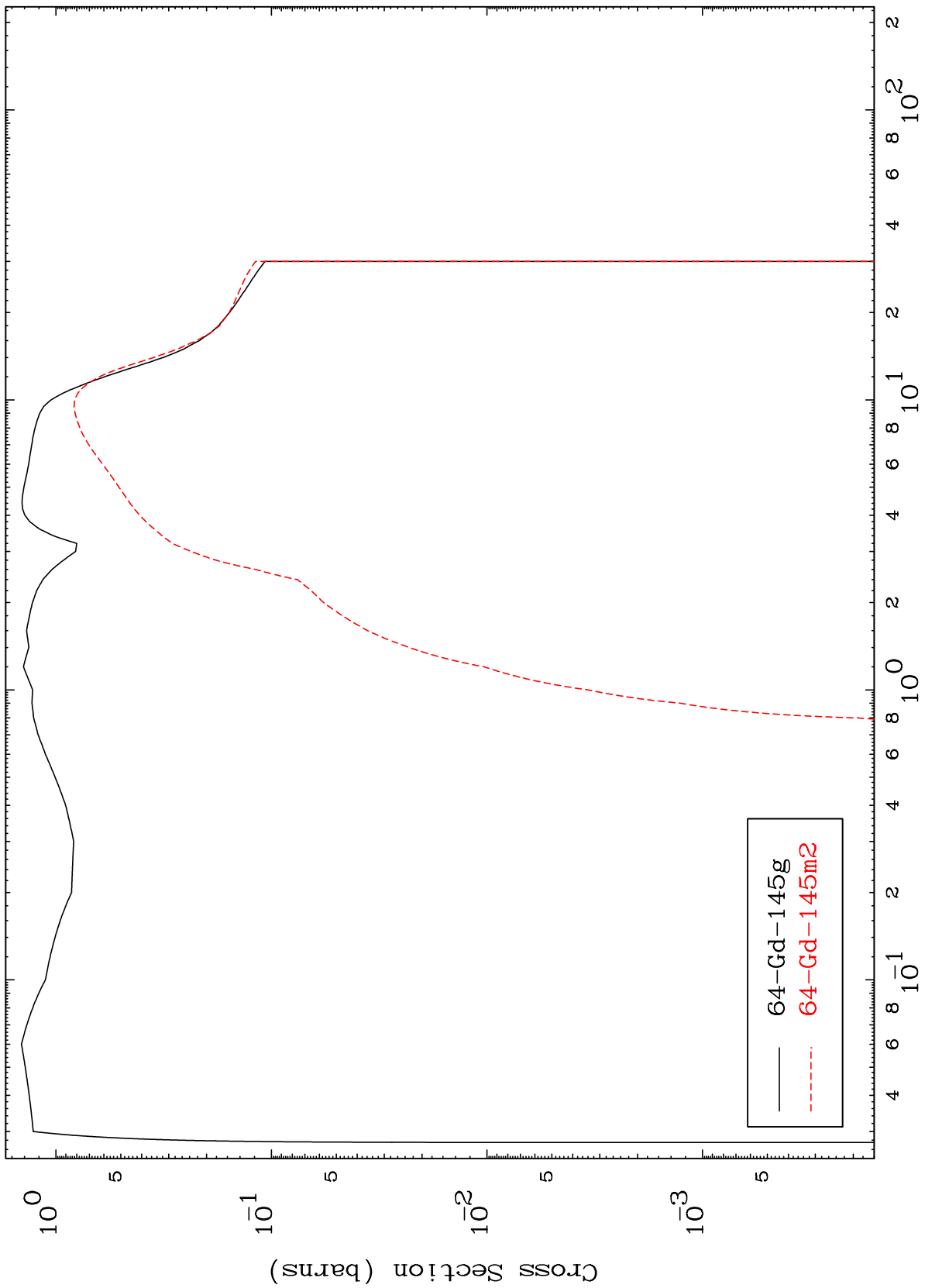




MAT 6404

64-Gd-145

Inelastic  
Radionuclide Production Cross Section

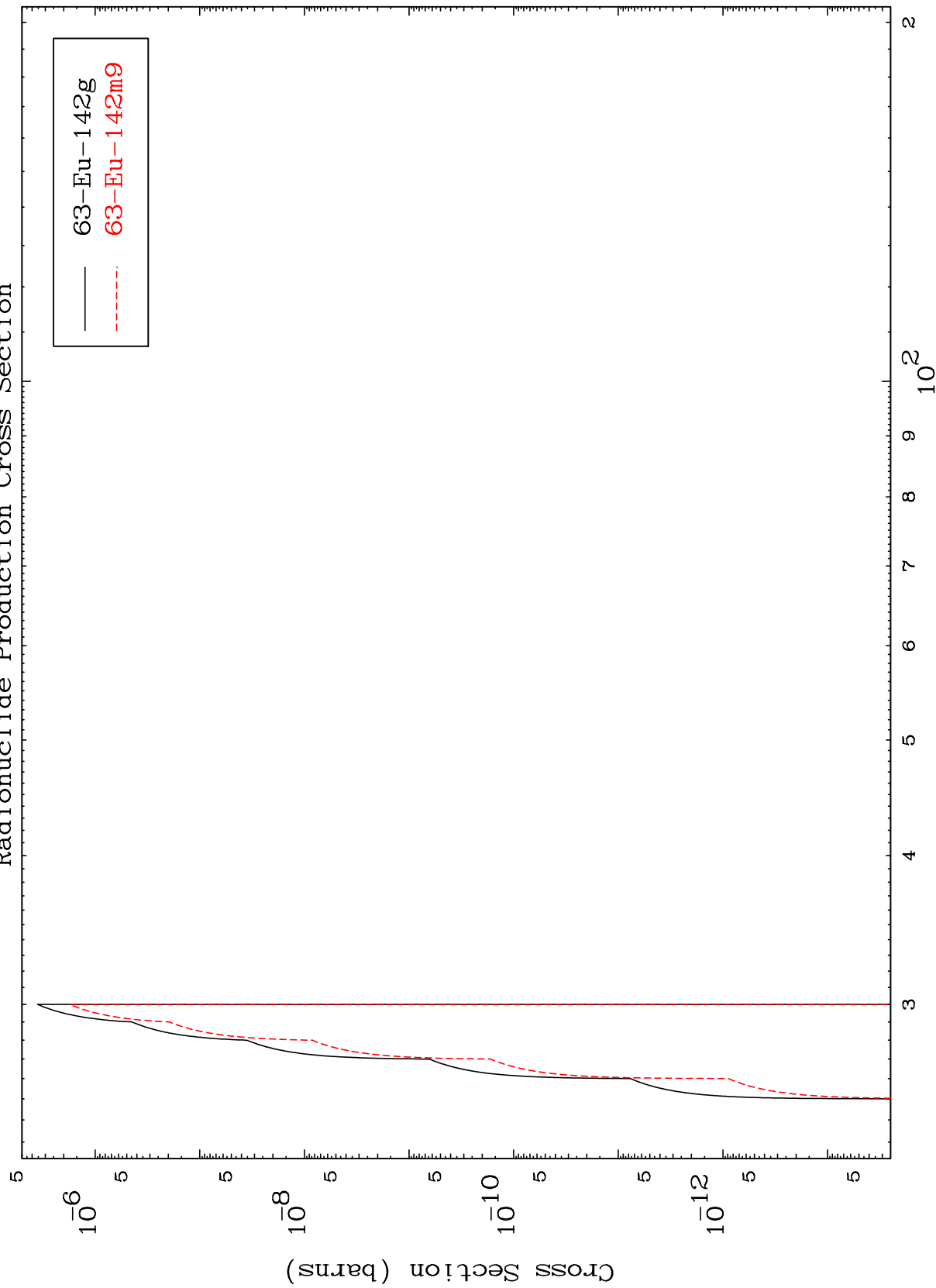


MAT 6404

(n,2n) d

64-Gd-145

Radionuclide Production Cross Section



137

Incident Energy (MeV)

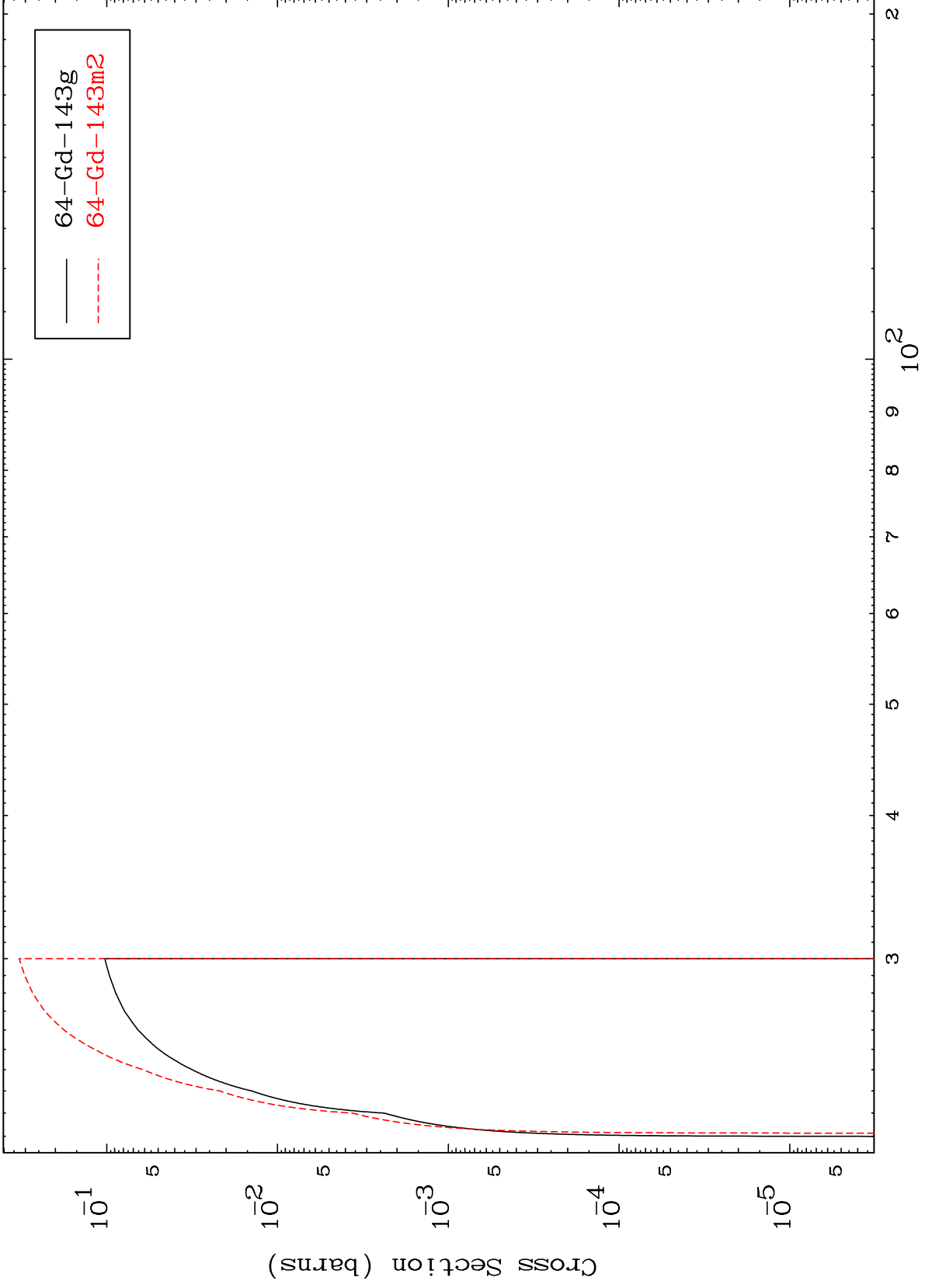
64-Gd-145

MAT 6404

(n,3n)

64-Gd-145

Radionuclide Production Cross Section



138

Incident Energy (MeV)

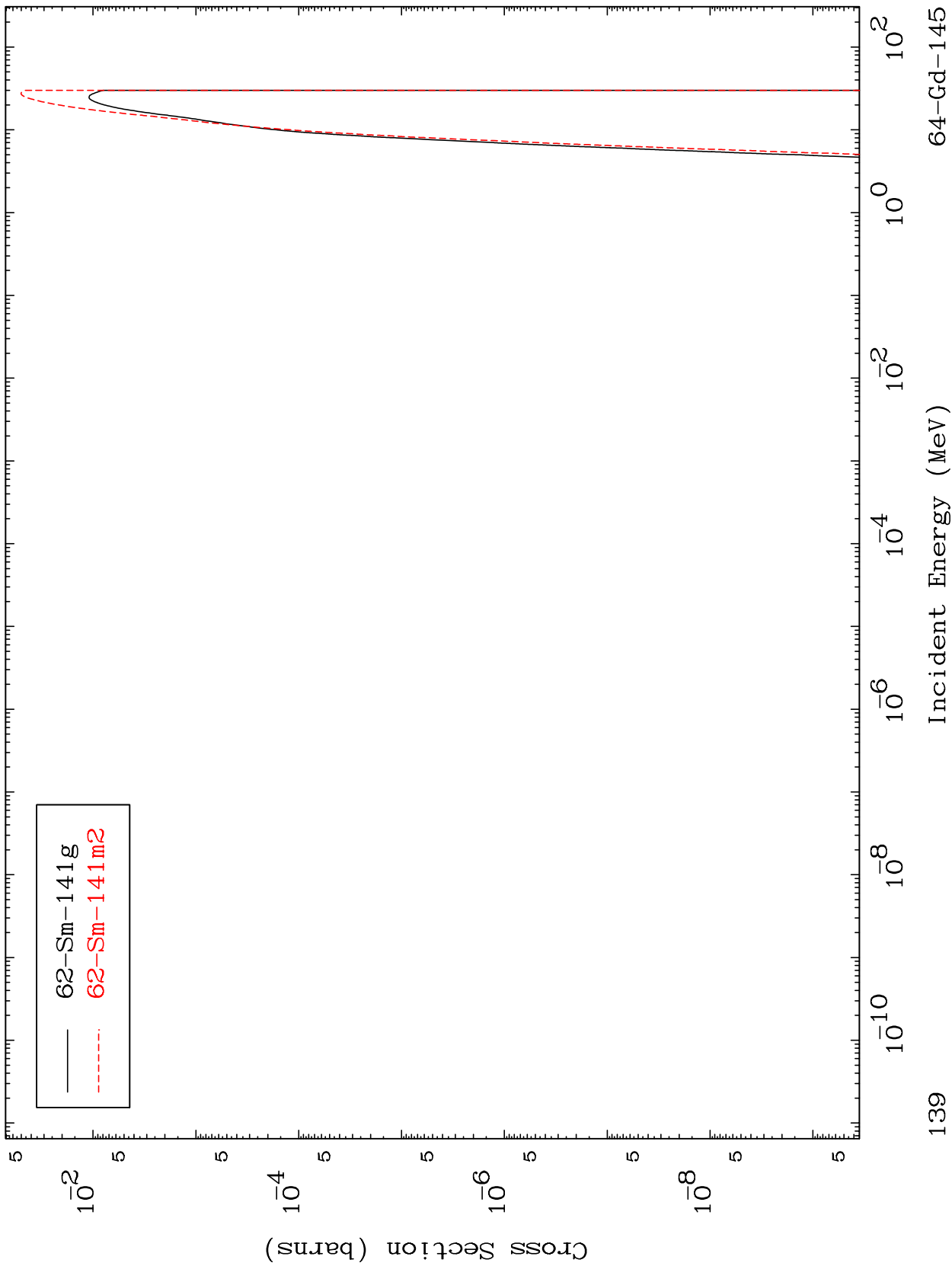
64-Gd-145

MAT 6404

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

64-Gd-145

Radionuclide Production Cross Section

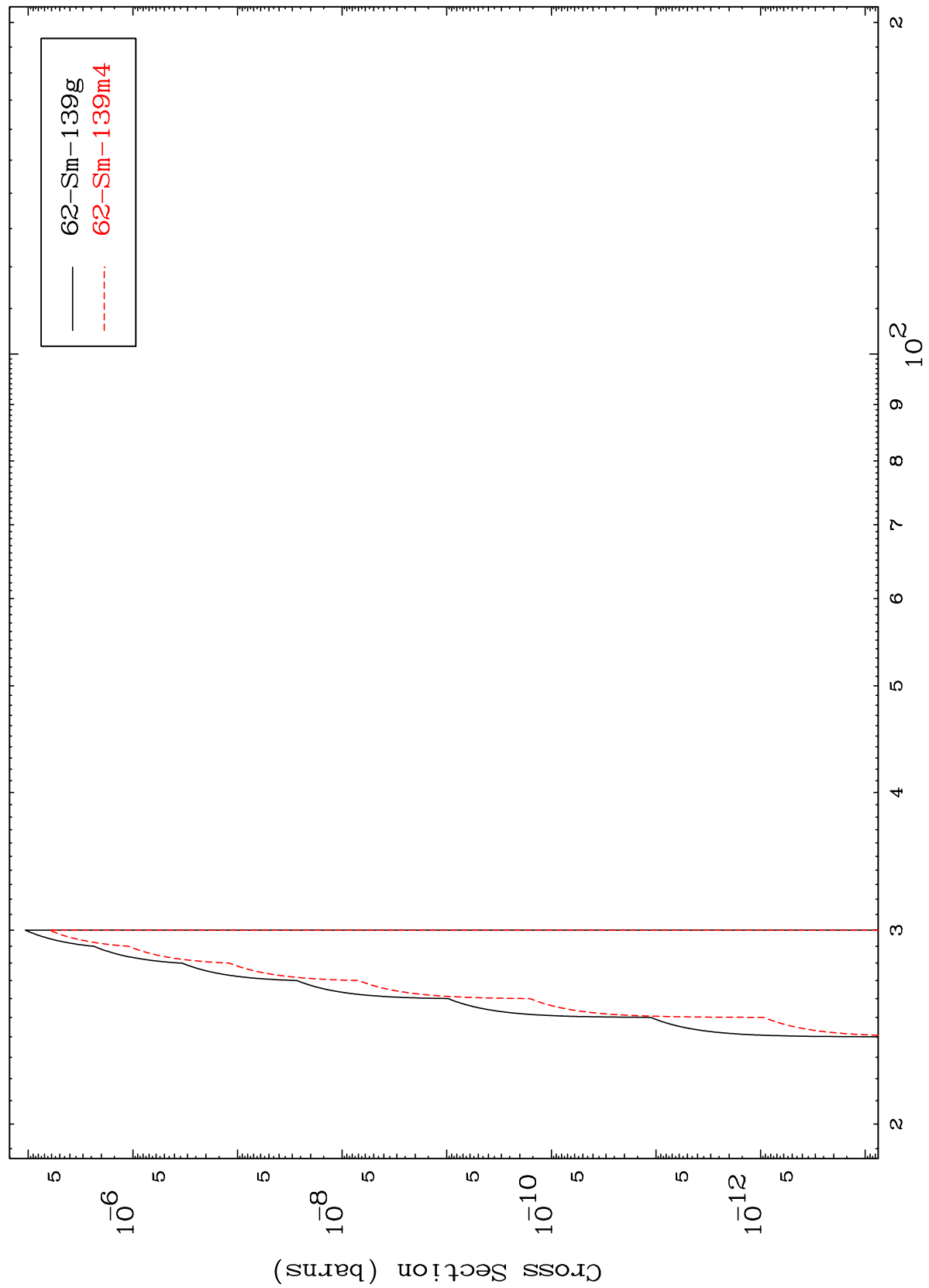


MAT 6404

$(n,3n) \alpha$

64-Gd-145

Radionuclide Production Cross Section



62-Sm-139g  
62-Sm-139m4

140

Incident Energy (MeV)

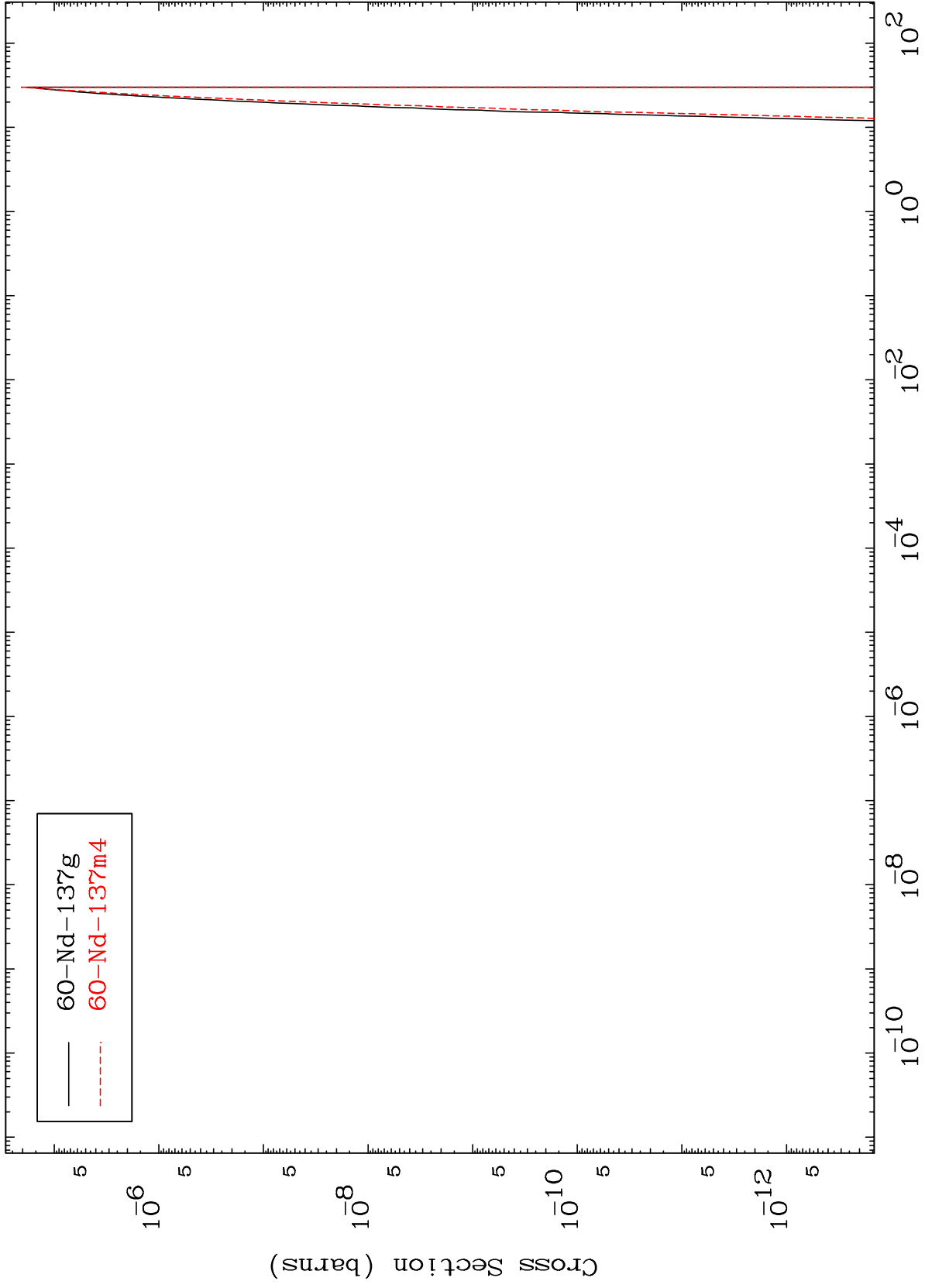
64-Gd-145

MAT 6404

(n,n') 2α

64-Gd-145

Radionuclide Production Cross Section



60-Nd-137g  
60-Nd-137m4

141

Incident Energy (MeV)

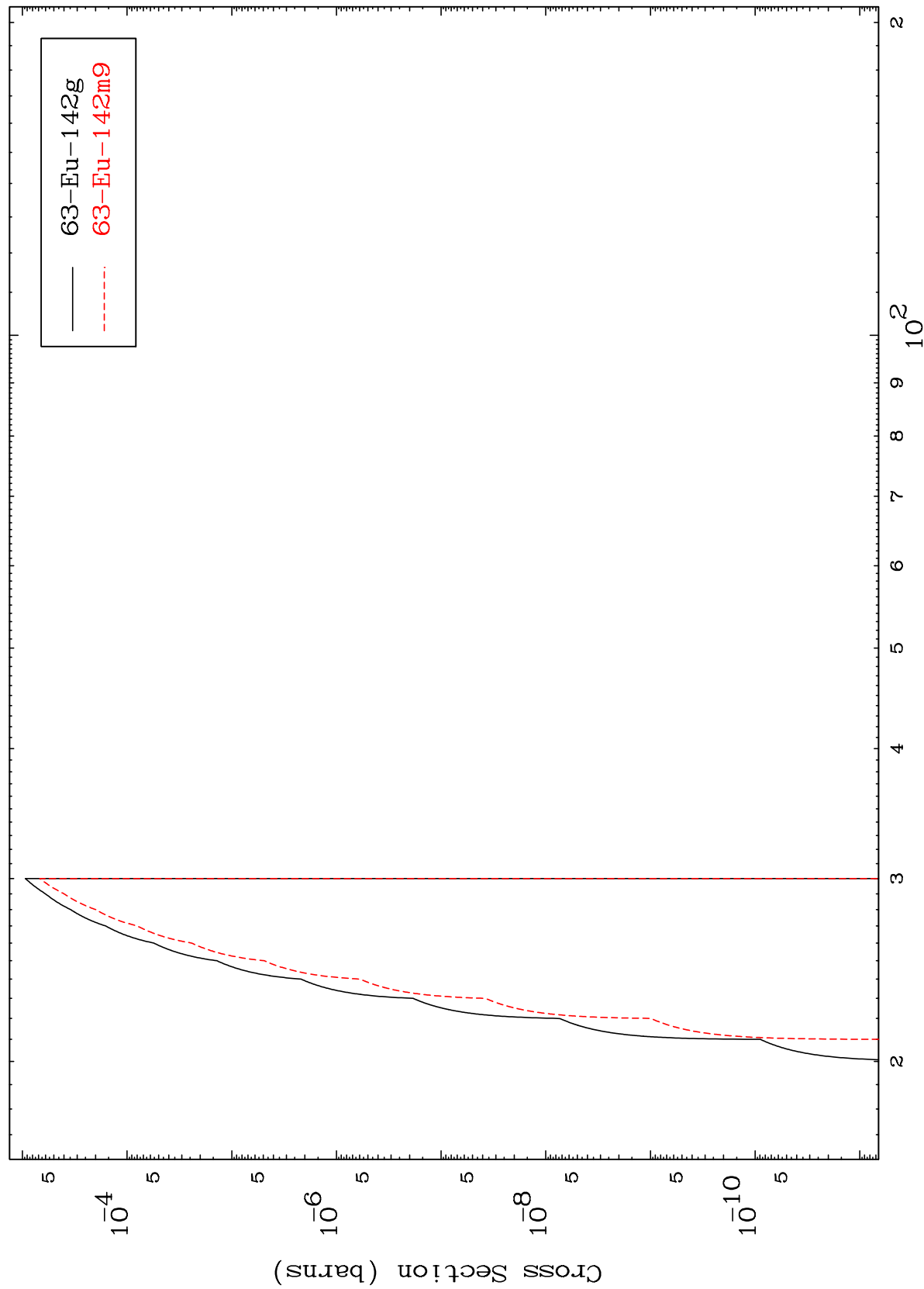
64-Gd-145

MAT 6404

(n,n') t

64-Gd-145

Radionuclide Production Cross Section



142

Incident Energy (MeV)

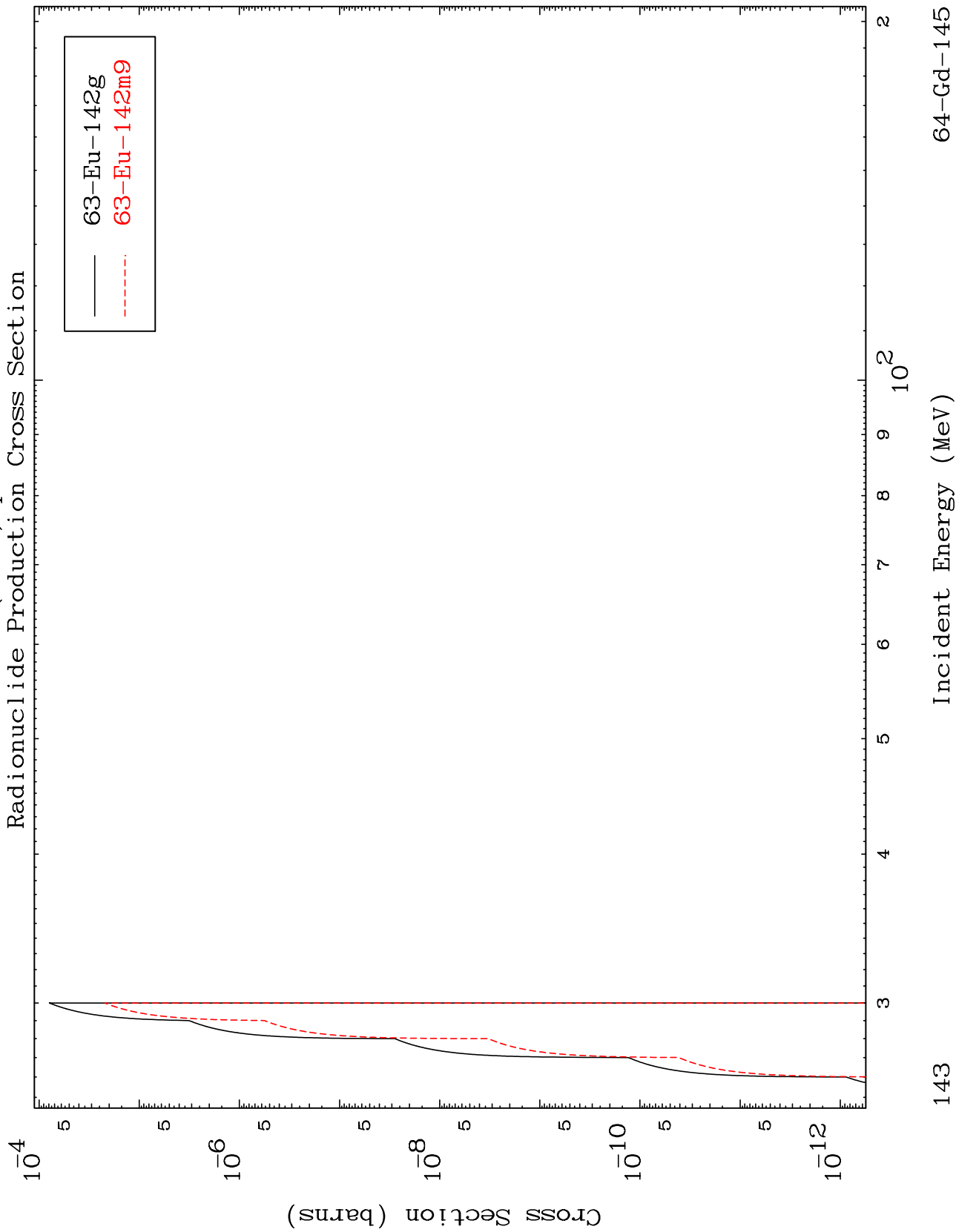
64-Gd-145

MAT 6404

(n,3n) p

64-Gd-145

Radionuclide Production Cross Section



143

Incident Energy (MeV)

64-Gd-145

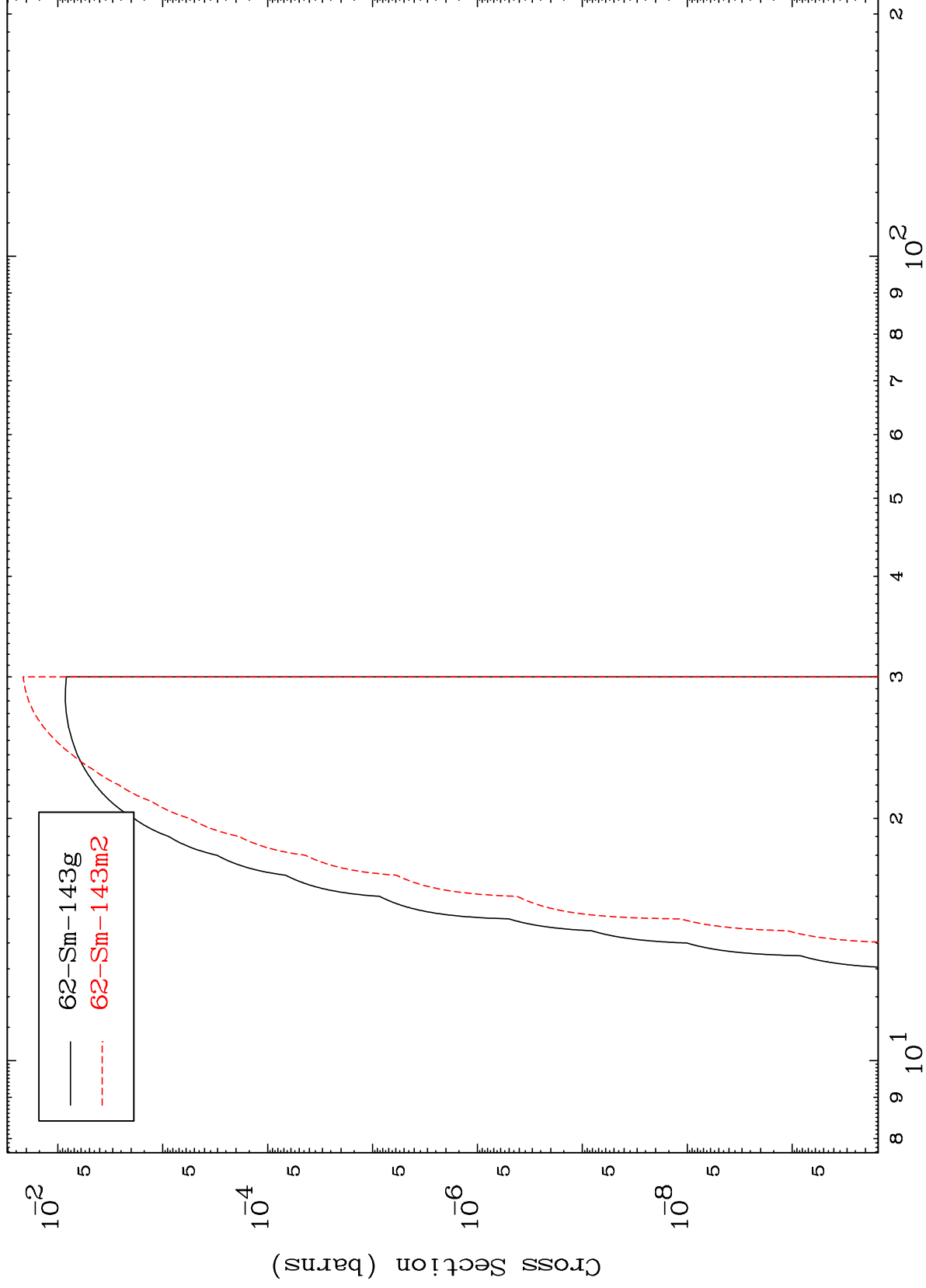


MAT 6404

(n,2n) p

64-Gd-145

Radionuclide Production Cross Section



144

Incident Energy (MeV)

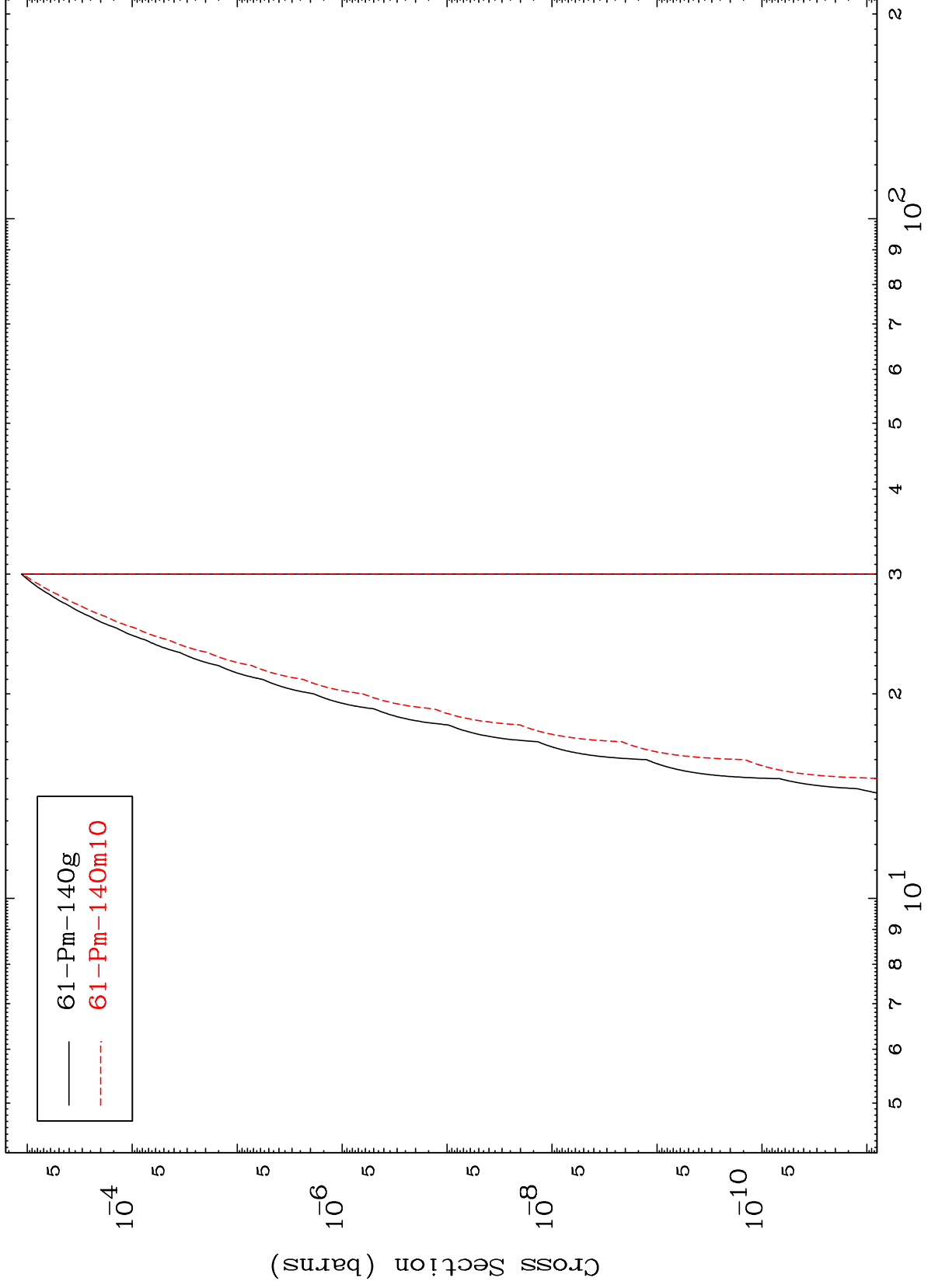
64-Gd-145

MAT 6404

(n,n') p  $\alpha$

64-Gd-145

Radionuclide Production Cross Section

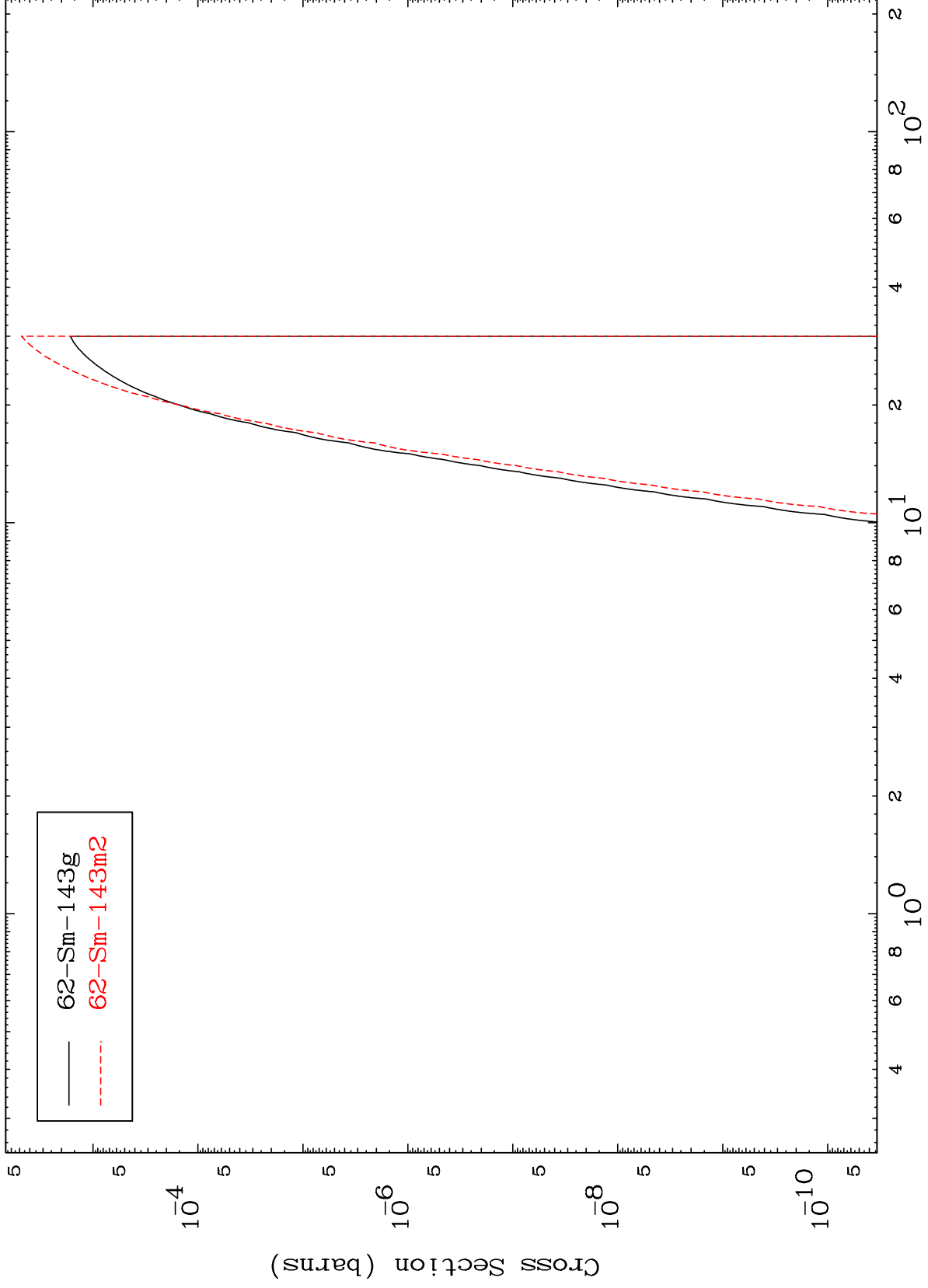


MAT 6404

(n,He-3)

64-Gd-145

Radionuclide Production Cross Section



146

Incident Energy (MeV)

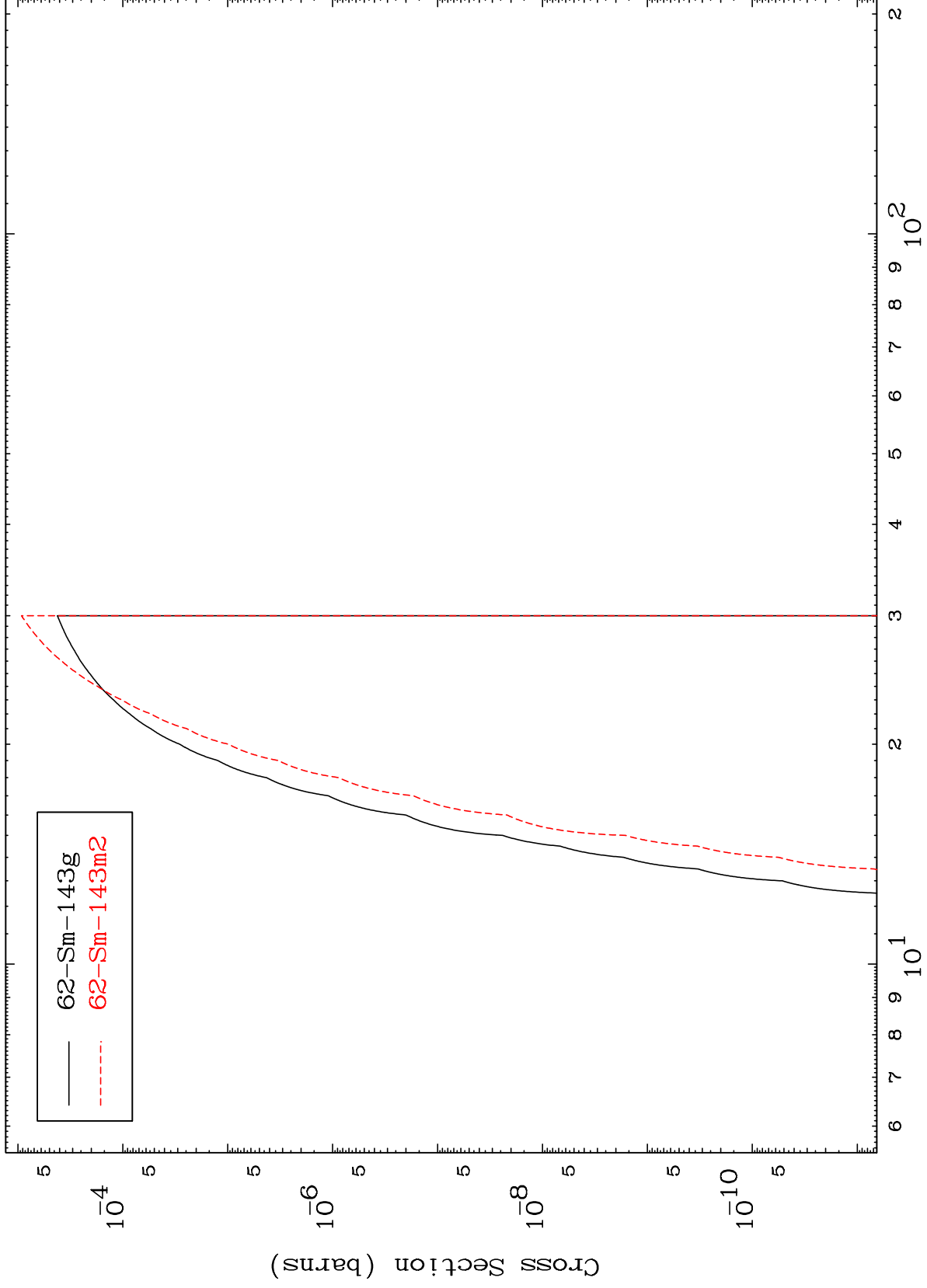
64-Gd-145

MAT 6404

(n,p) d

64-Gd-145

Radionuclide Production Cross Section



147

Incident Energy (MeV)

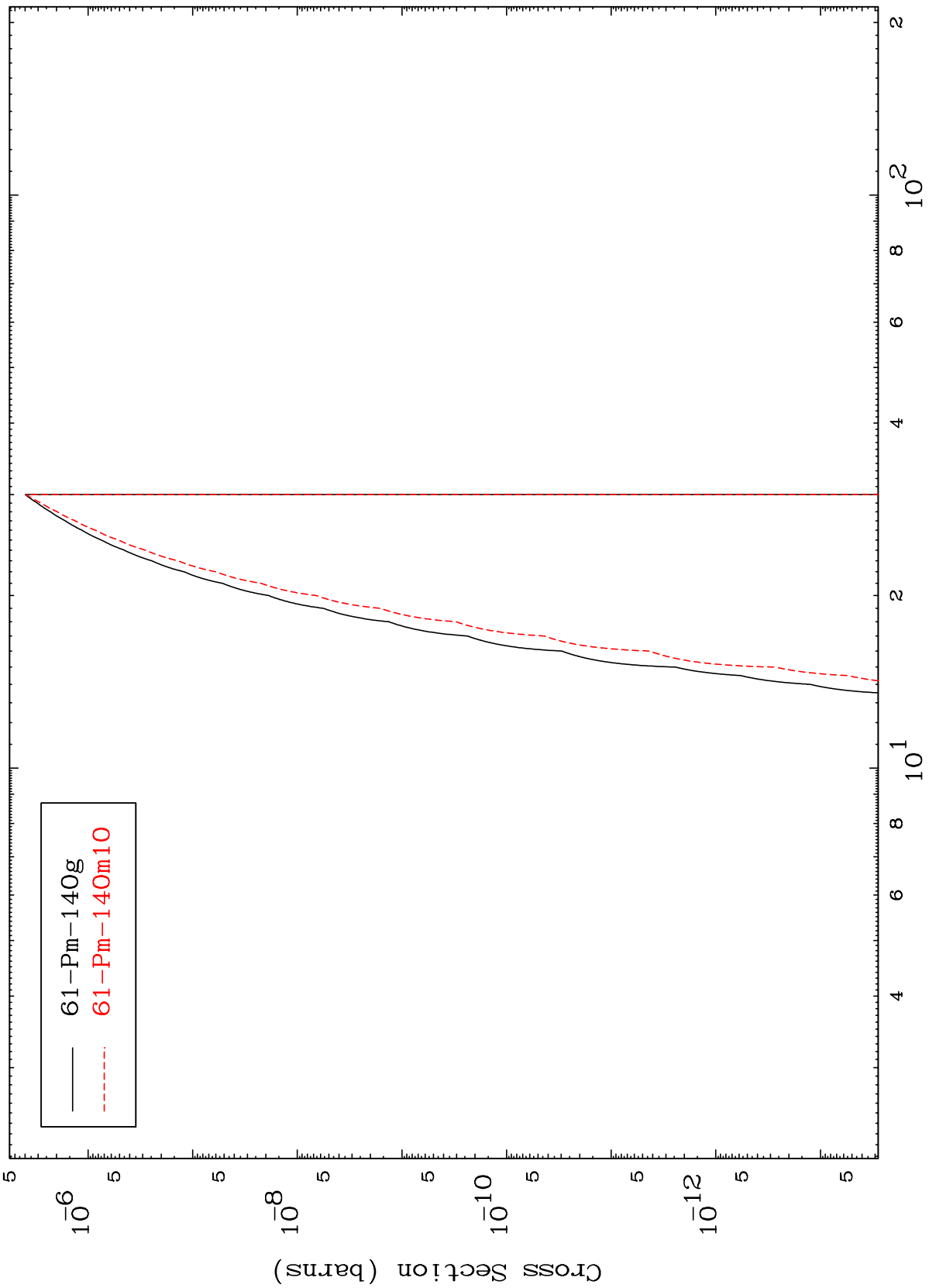
64-Gd-145

MAT 6404

(n,d)  $\alpha$

64-Gd-145

Radionuclide Production Cross Section



61-Pm-140g  
61-Pm-140m10

148

Incident Energy (MeV)

64-Gd-145