

Program EVALPLOT  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

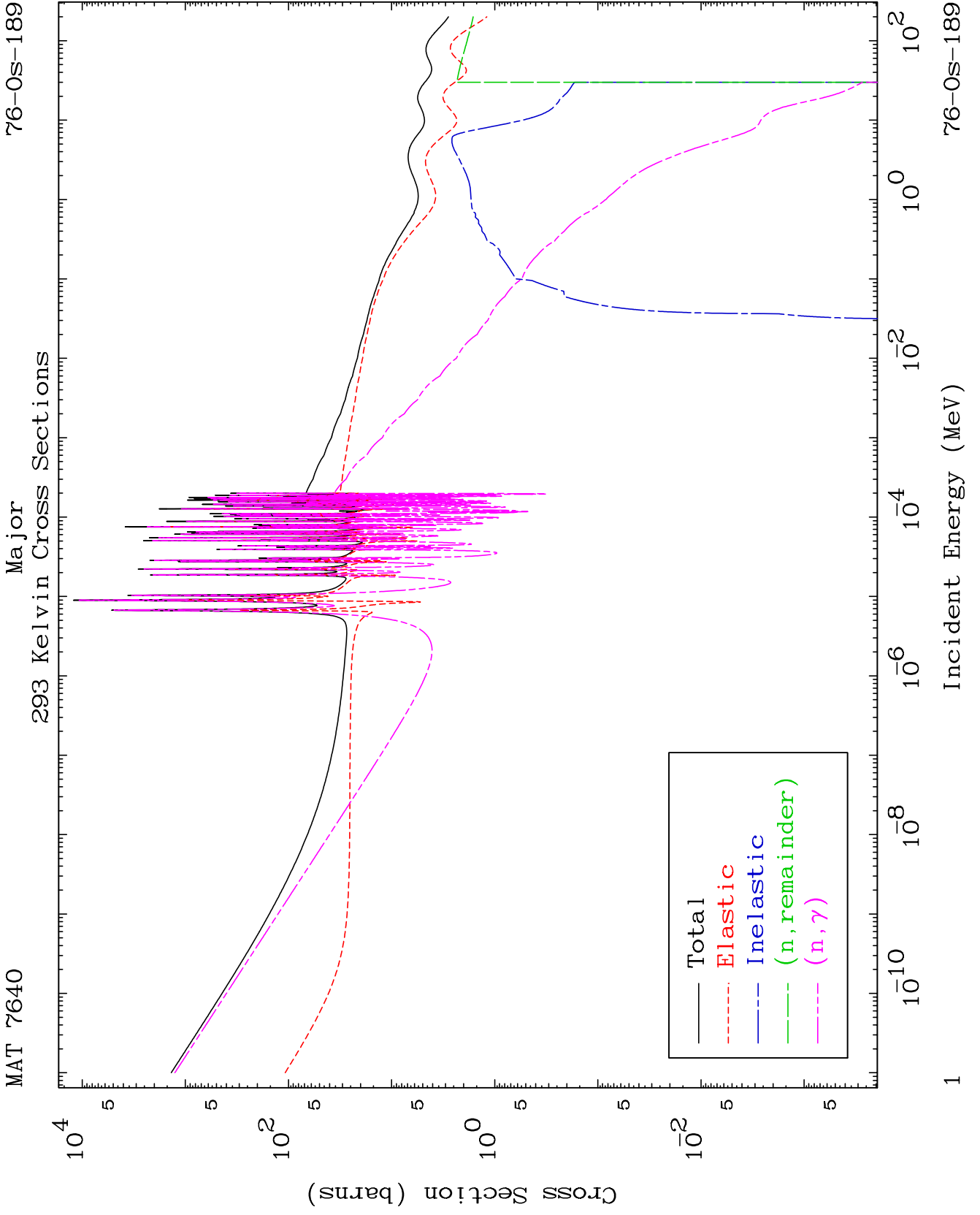
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E.Mail:redcullen1@comcast.net

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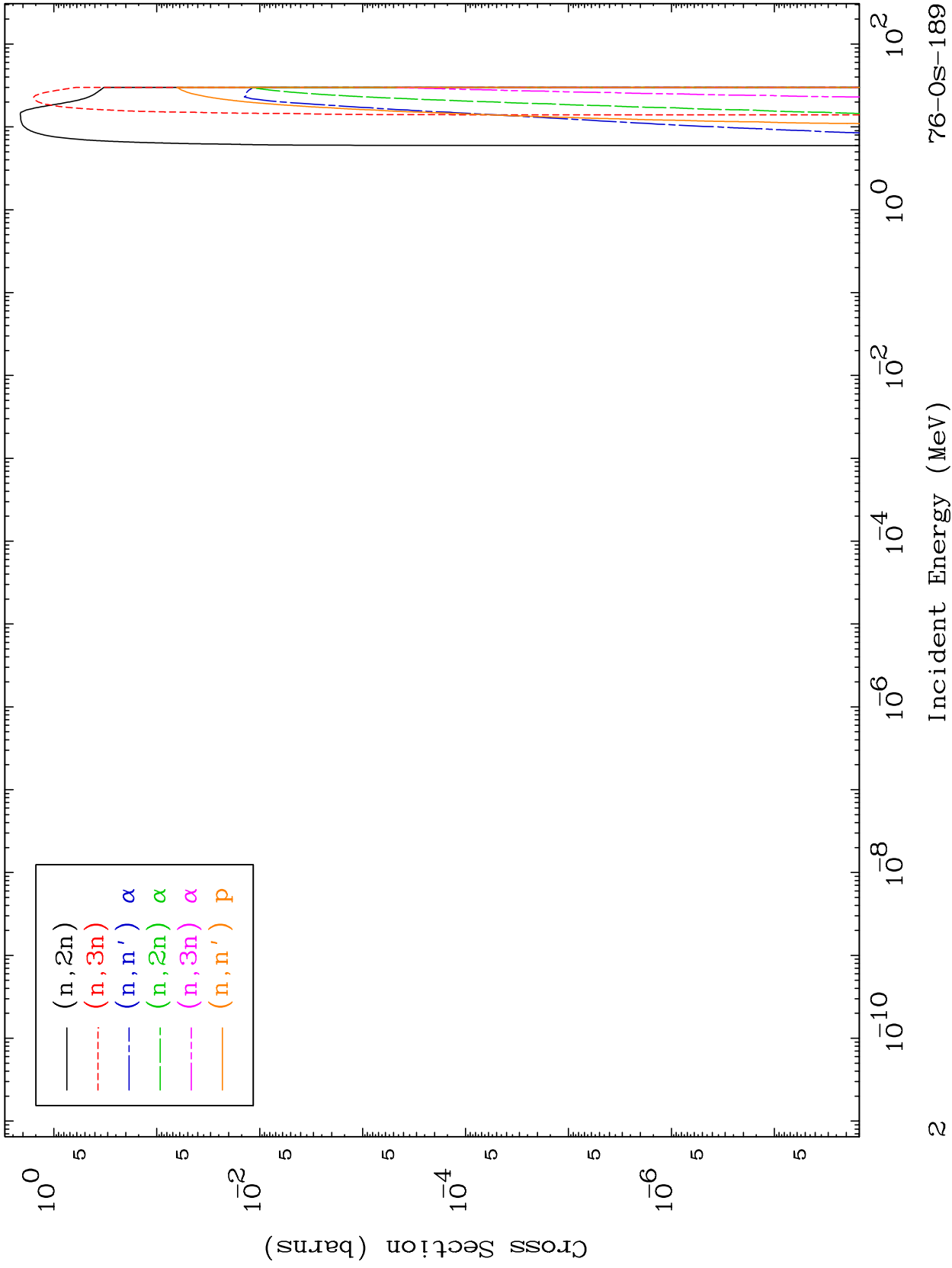
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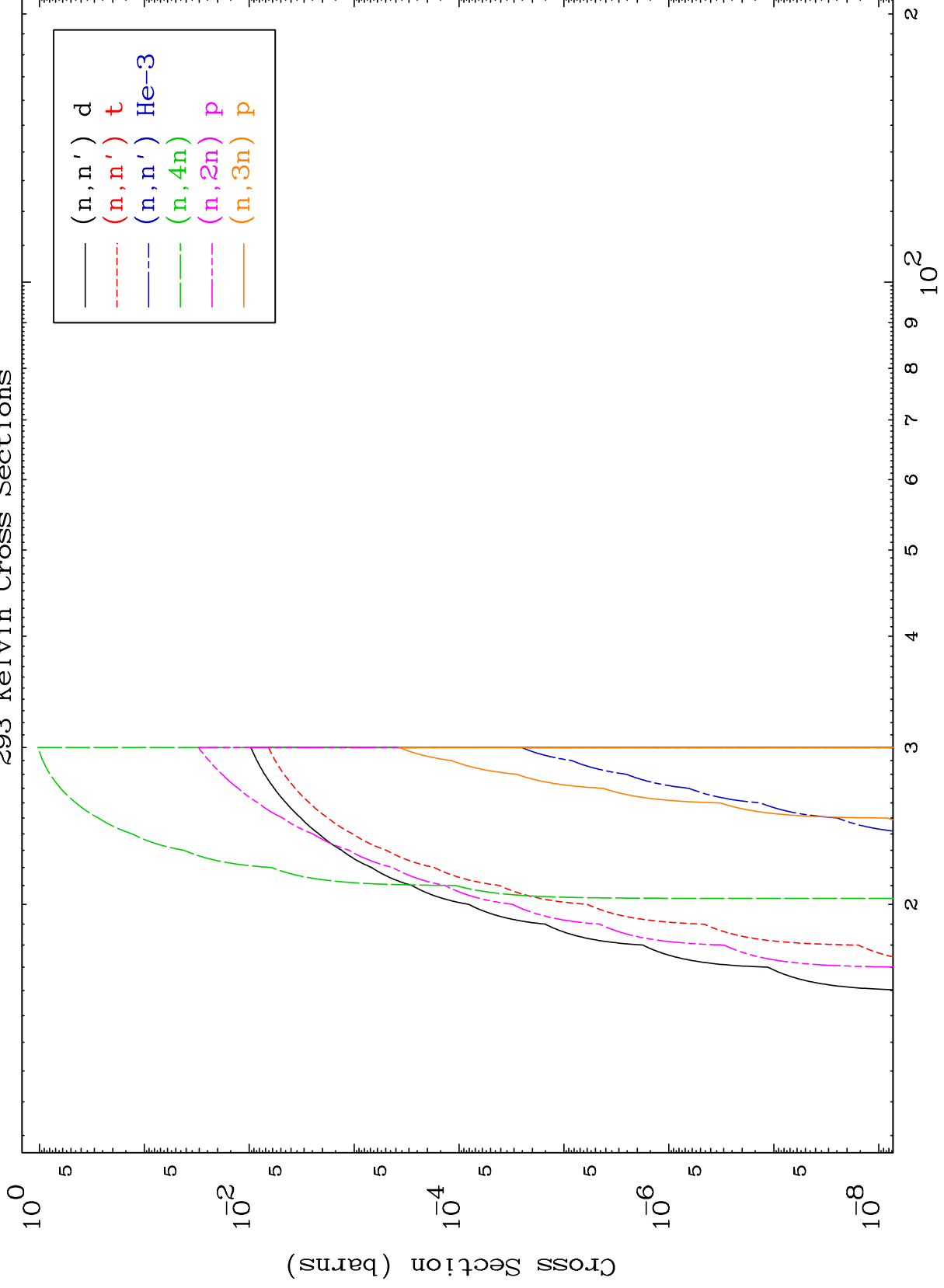


MAT 7640

Neutron Production  
293 Kelvin Cross Sections

76-Os-189

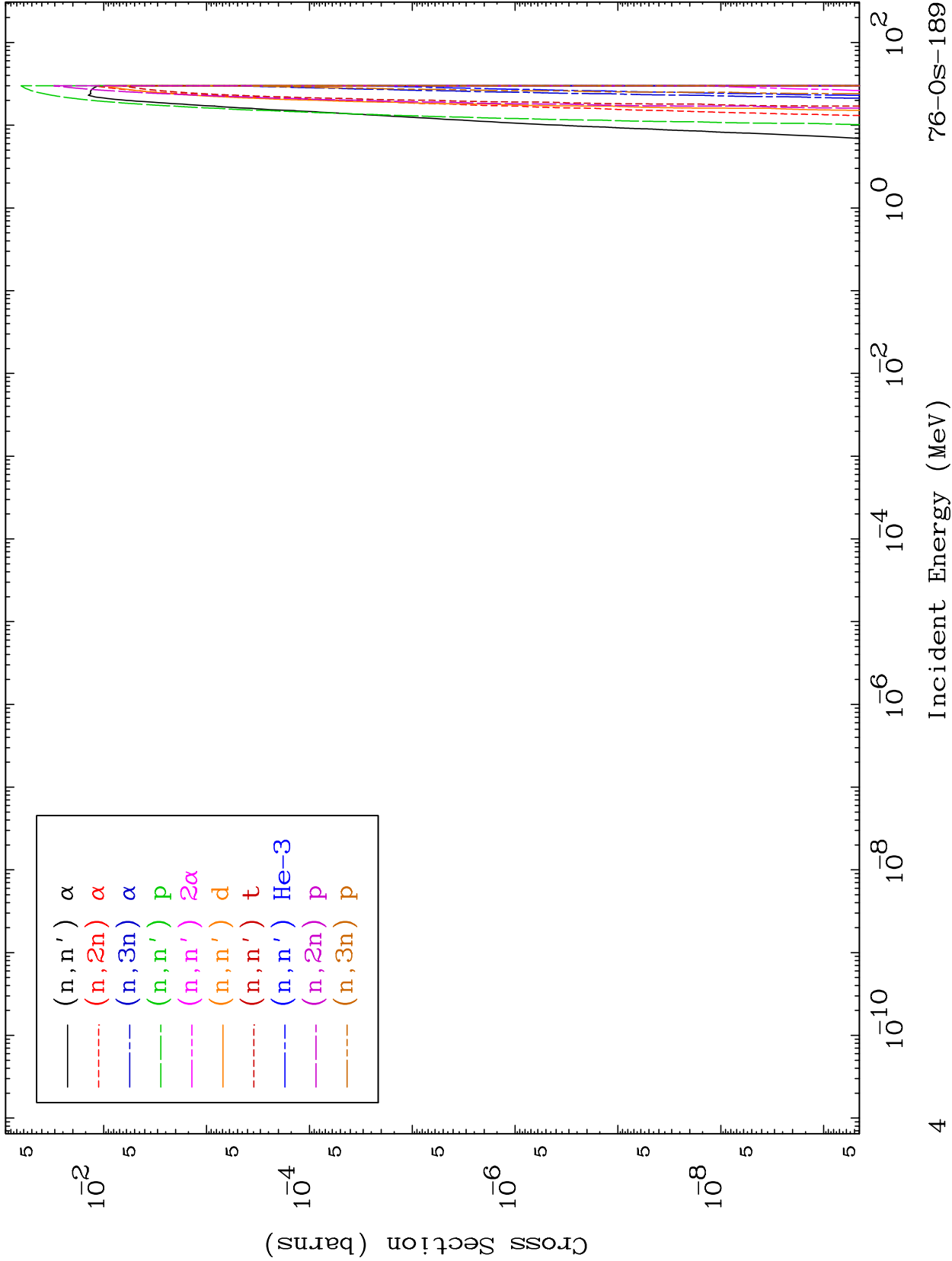




MAT 7640

Charged Particle  
293 Kelvin Cross Sections

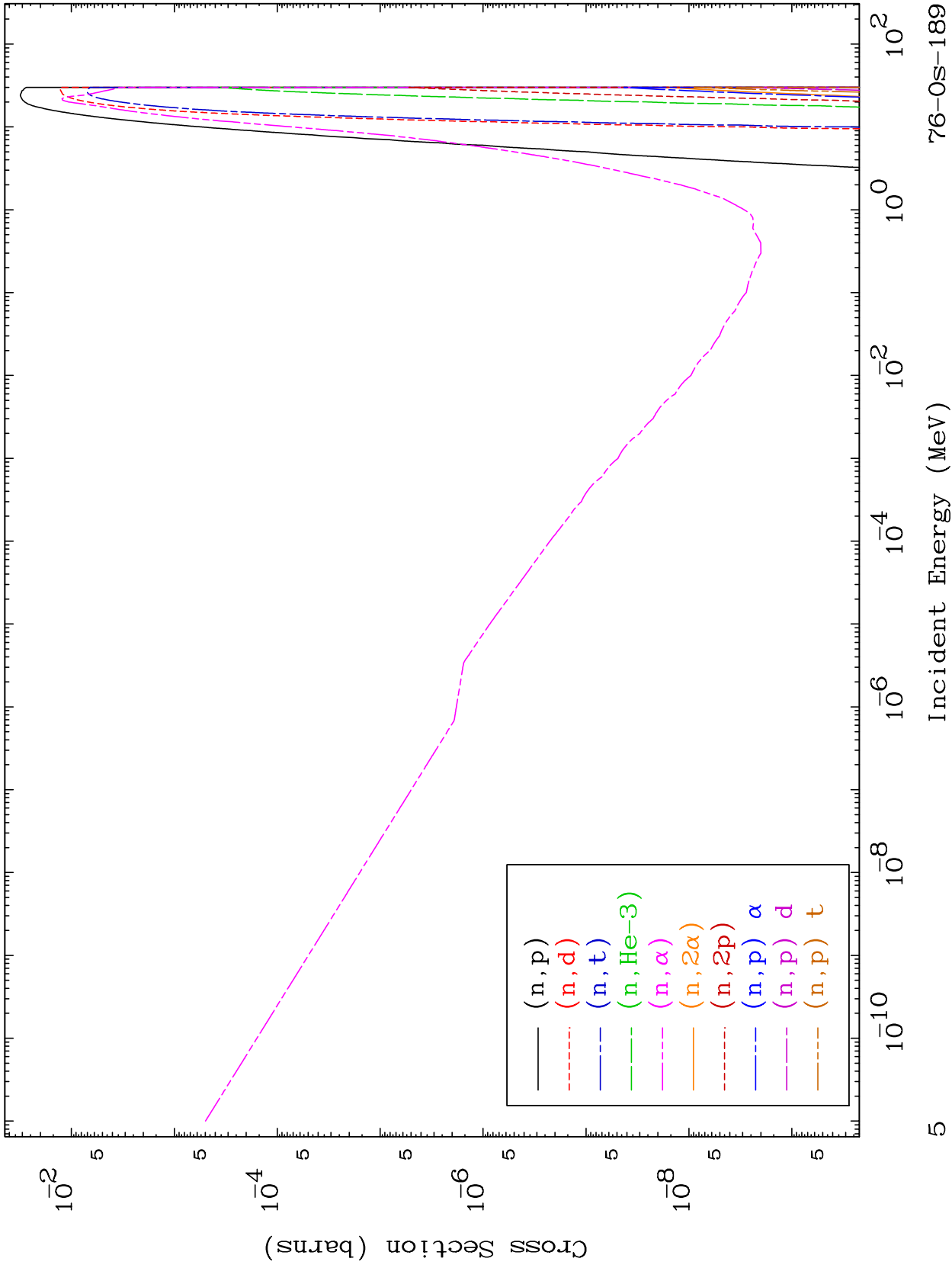
76-Os-189

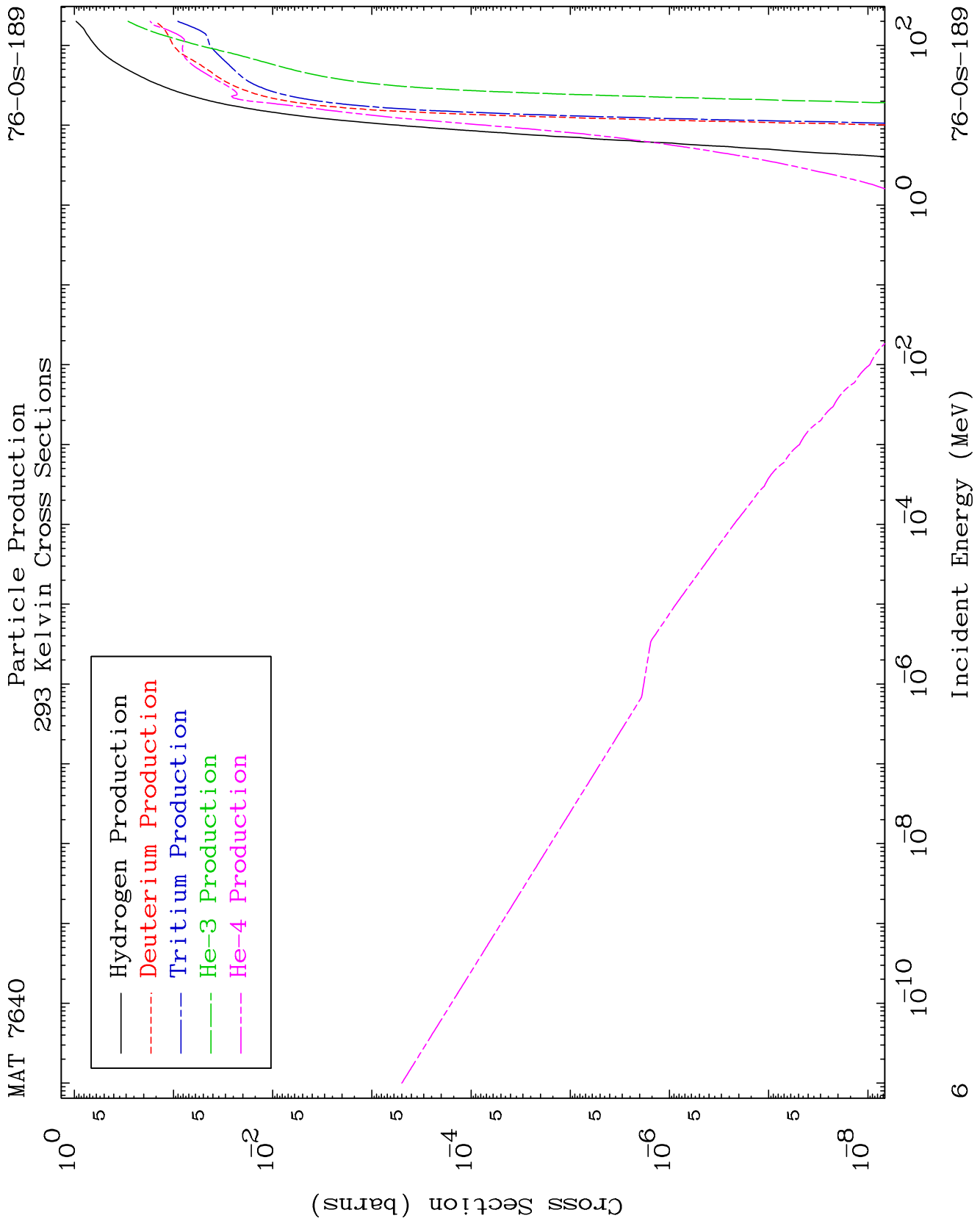


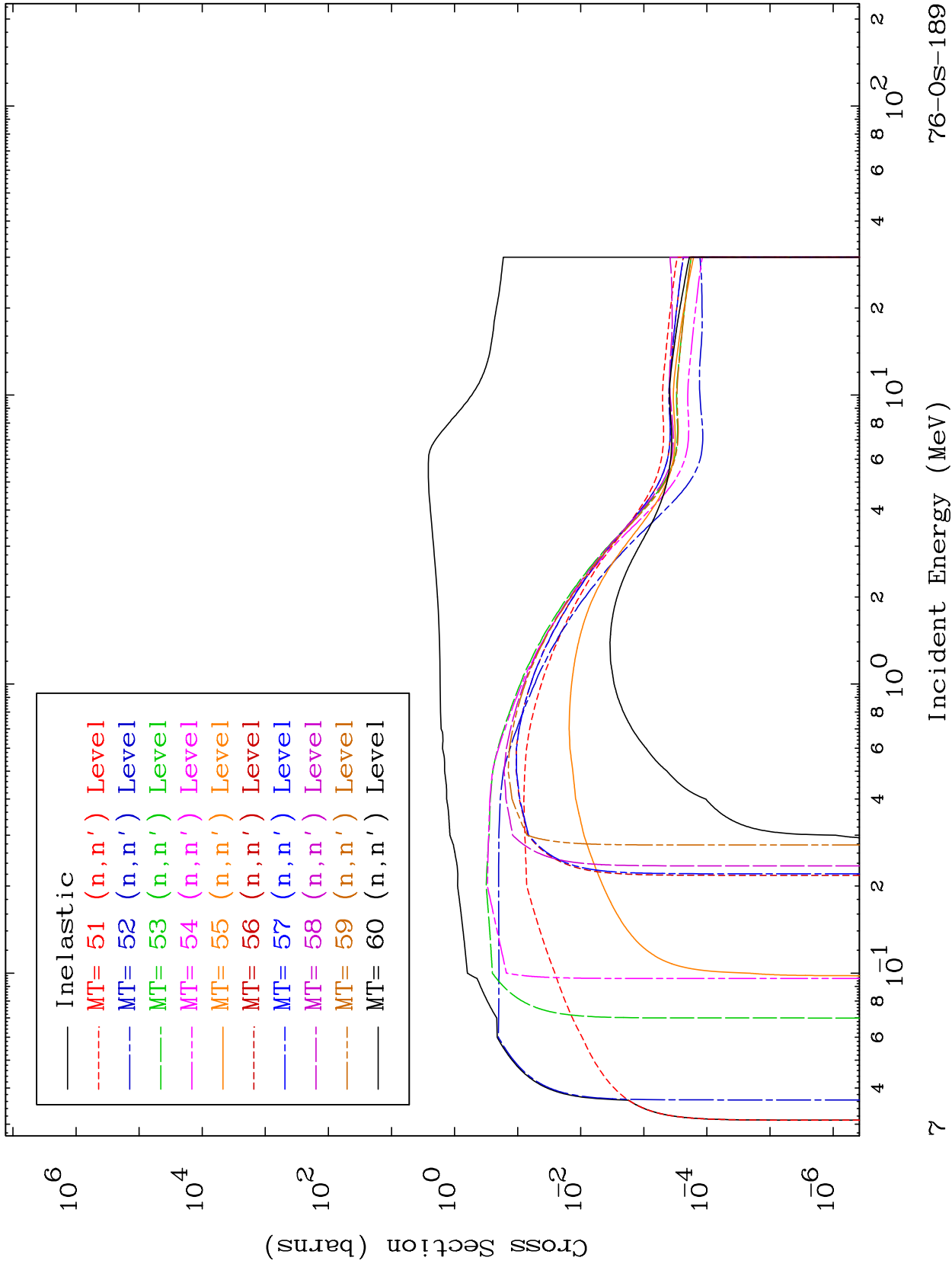
MAT 7640

Charged Particle  
293 Kelvin Cross Sections

76-Os-189







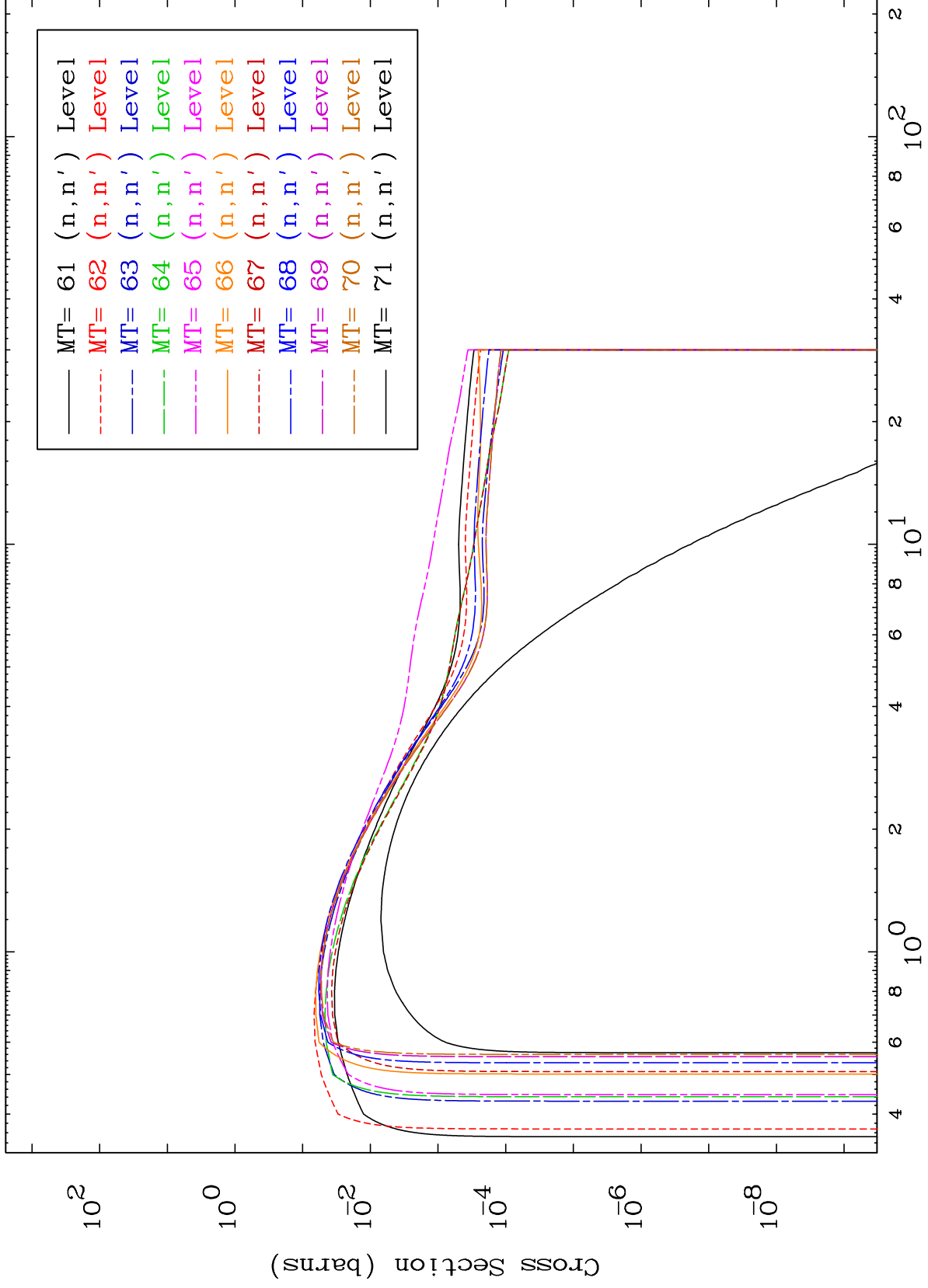


MAT 7640

(n,n') Level

76-Os-189

293 Kelvin Cross Sections



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Incident Energy (MeV)

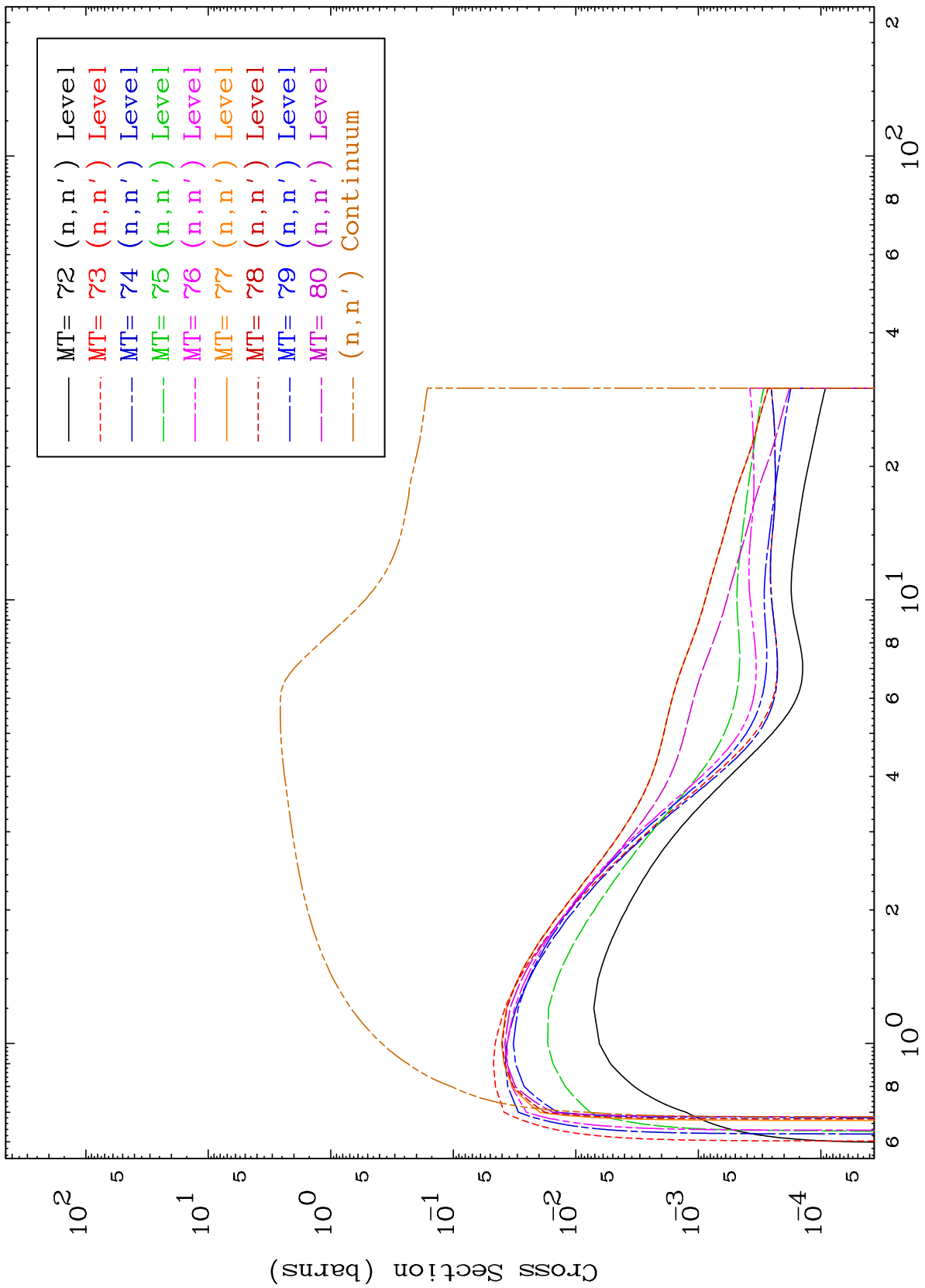
76-Os-189

MAT 7640

(n,n') Level

76-Os-189

293 Kelvin Cross Sections



9

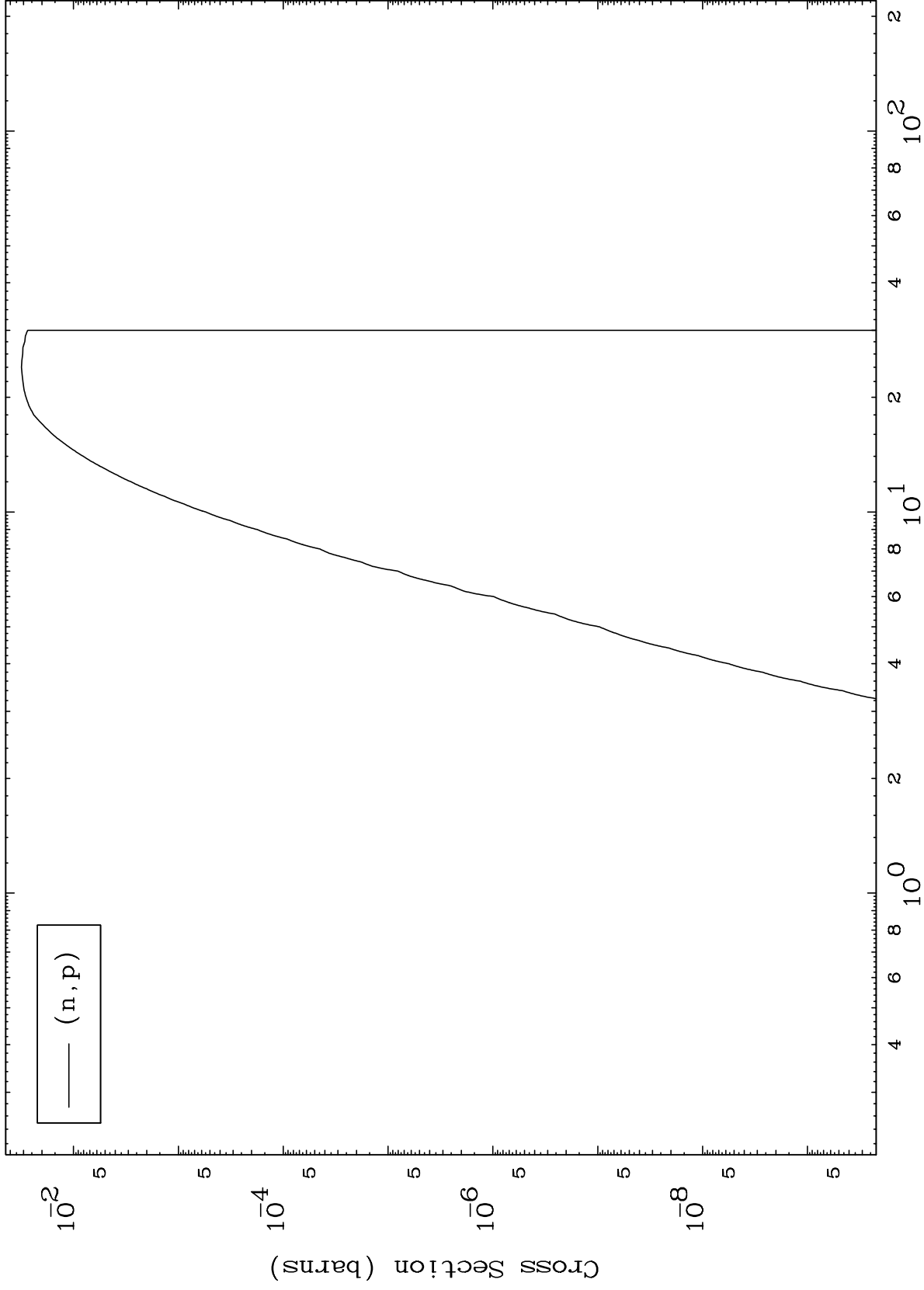
Incident Energy (MeV)

76-Os-189

MAT 7640

(n,p) Levels  
293 Kelvin Cross Sections

76-Os-189



10

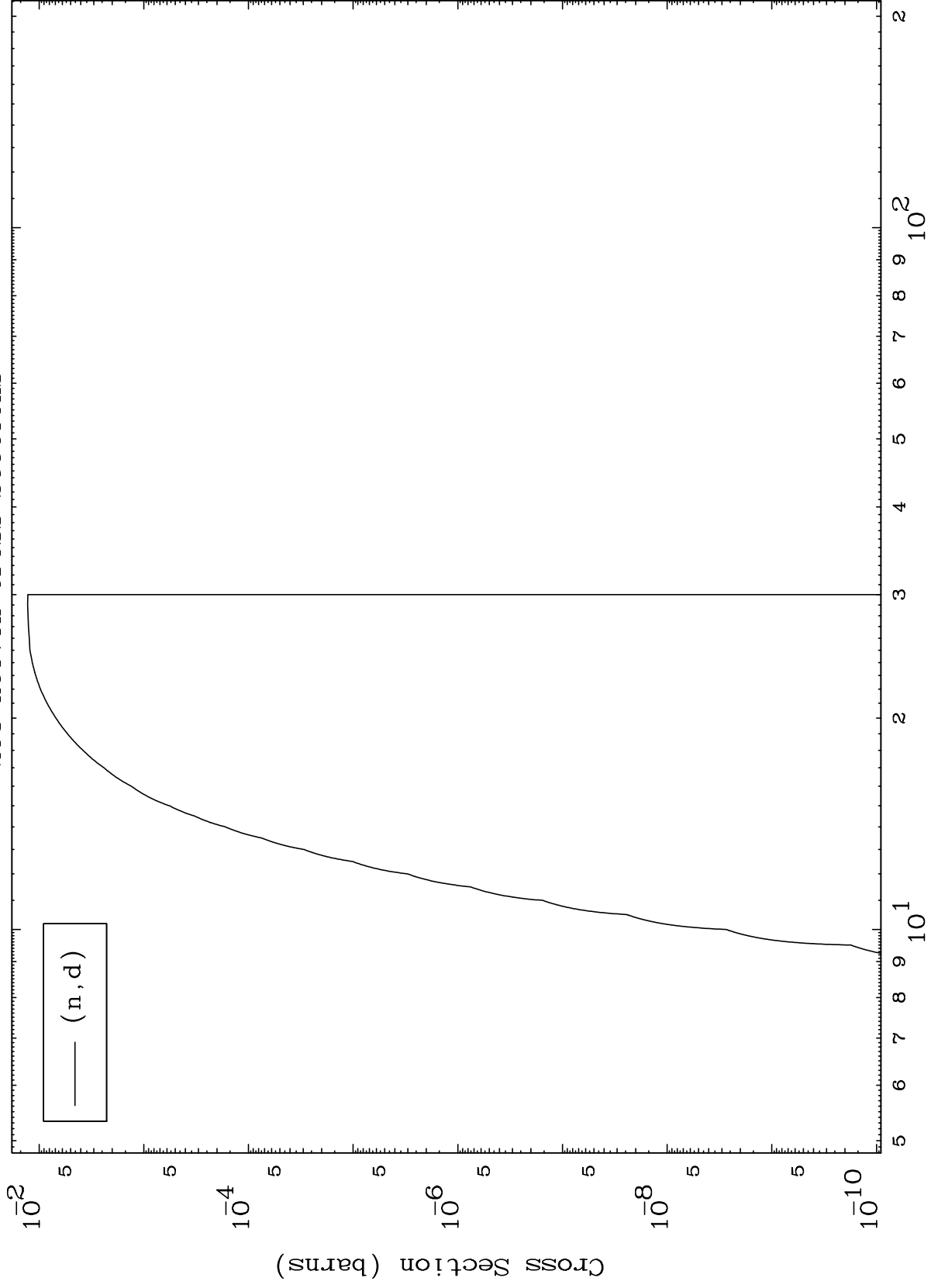
Incident Energy (MeV)

76-Os-189

MAT 7640

(n,d) Levels  
293 Kelvin Cross Sections

76-Os-189



11

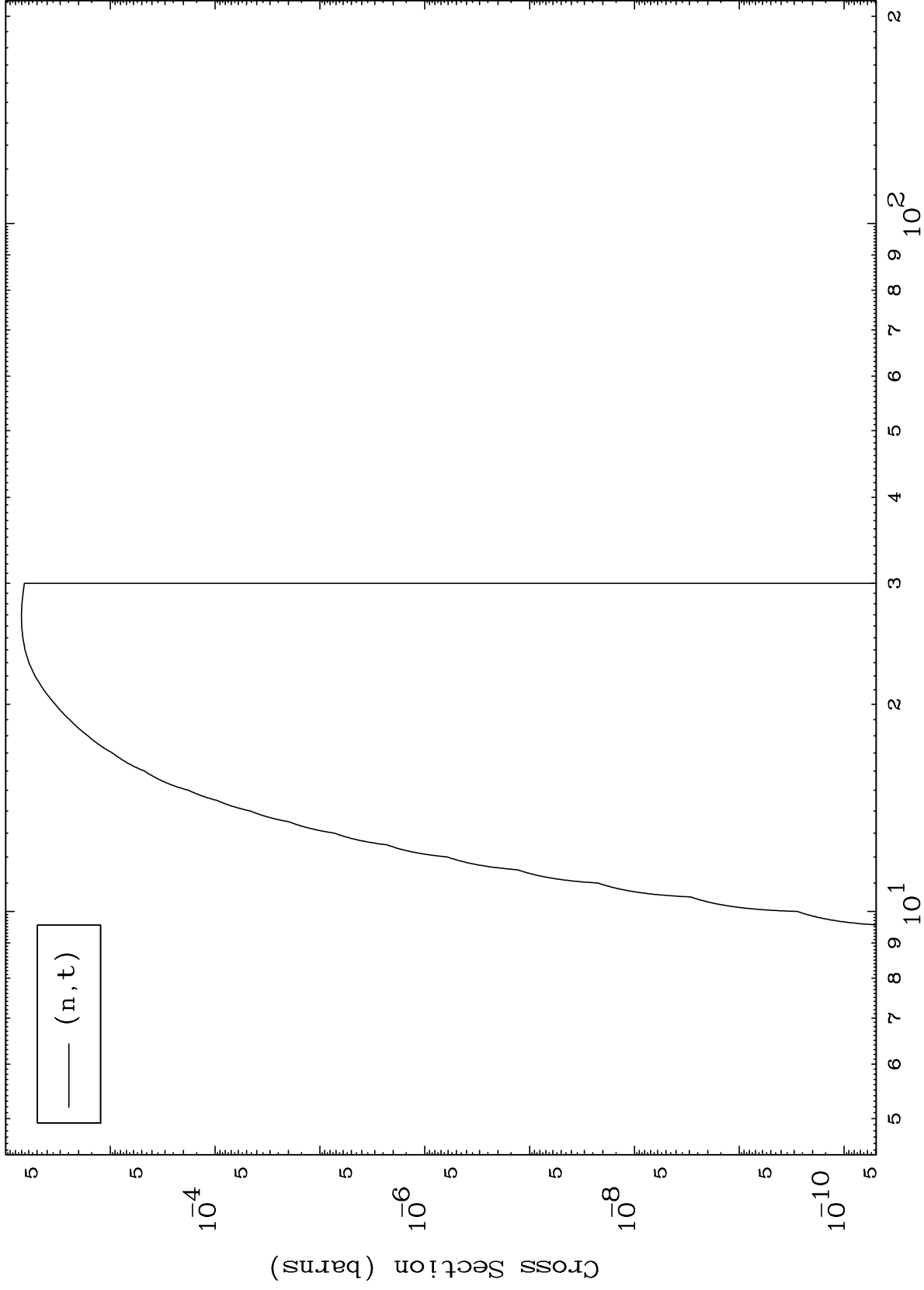
Incident Energy (MeV)

76-Os-189

MAT 7640

(n,t) Levels  
293 Kelvin Cross Sections

76-Os-189



12

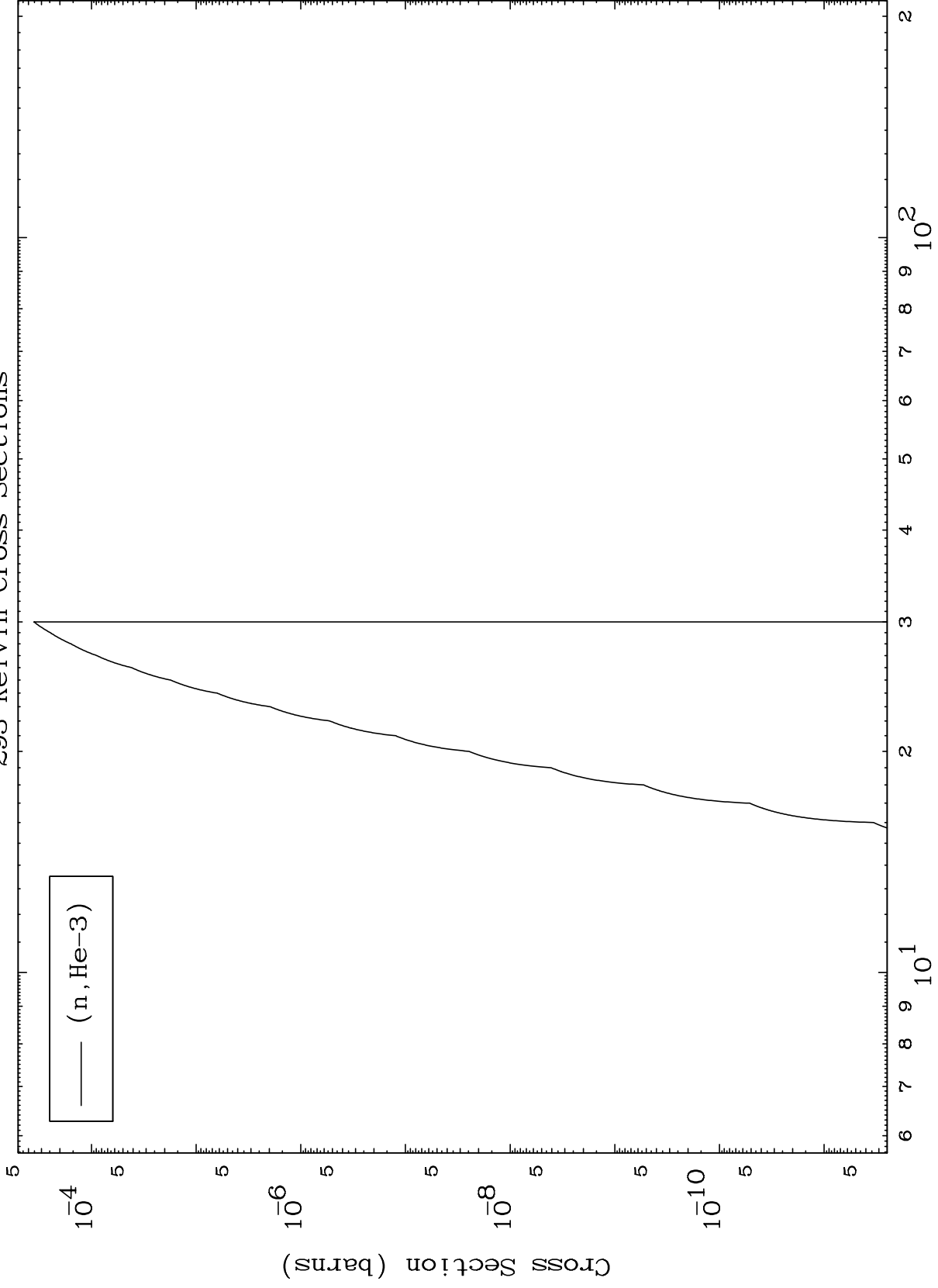
Incident Energy (MeV)

76-Os-189

MAT 7640

(n,He3) Levels  
293 Kelvin Cross Sections

76-Os-189



13

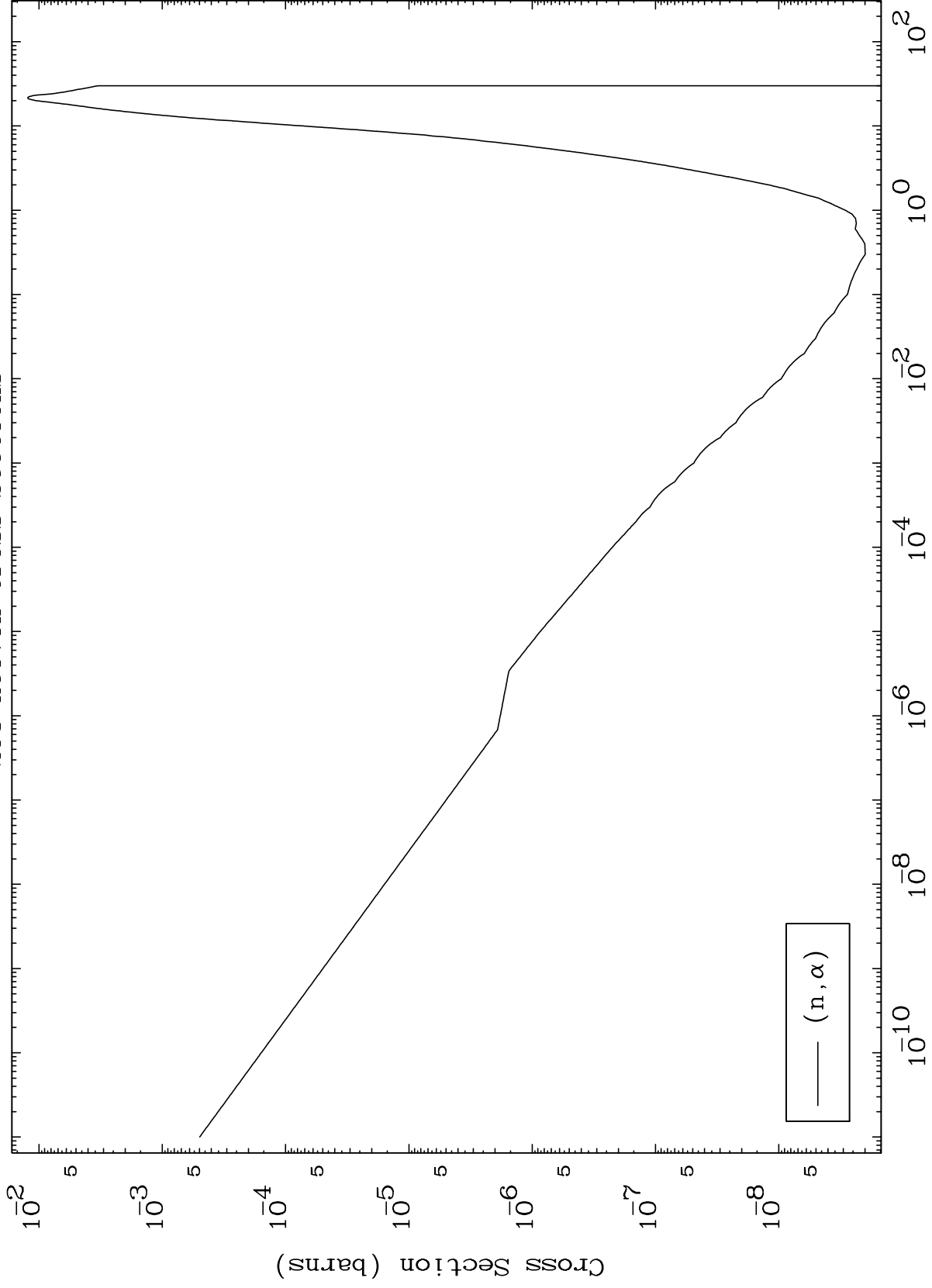
Incident Energy (MeV)

76-Os-189

MAT 7640

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

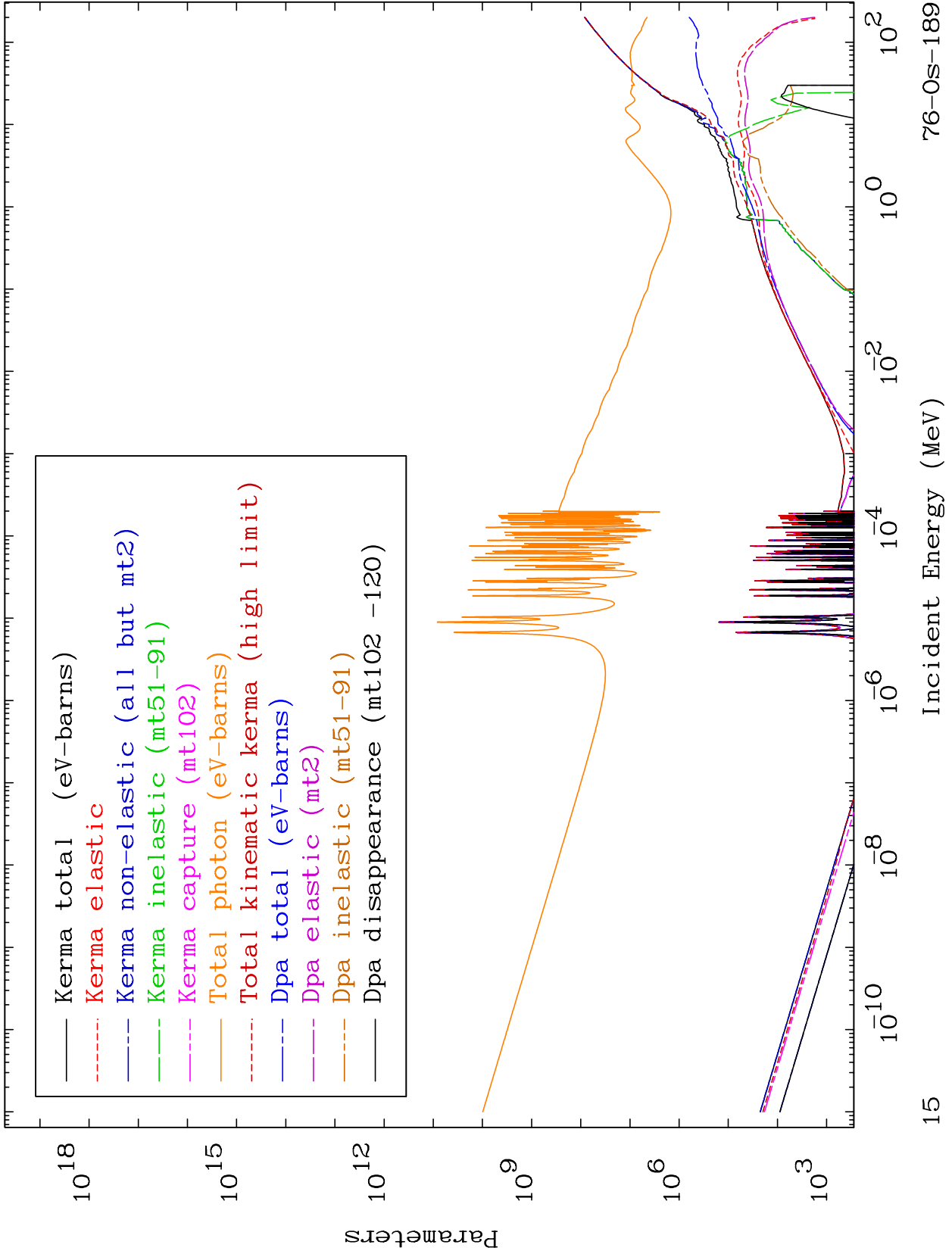
76-Os-189



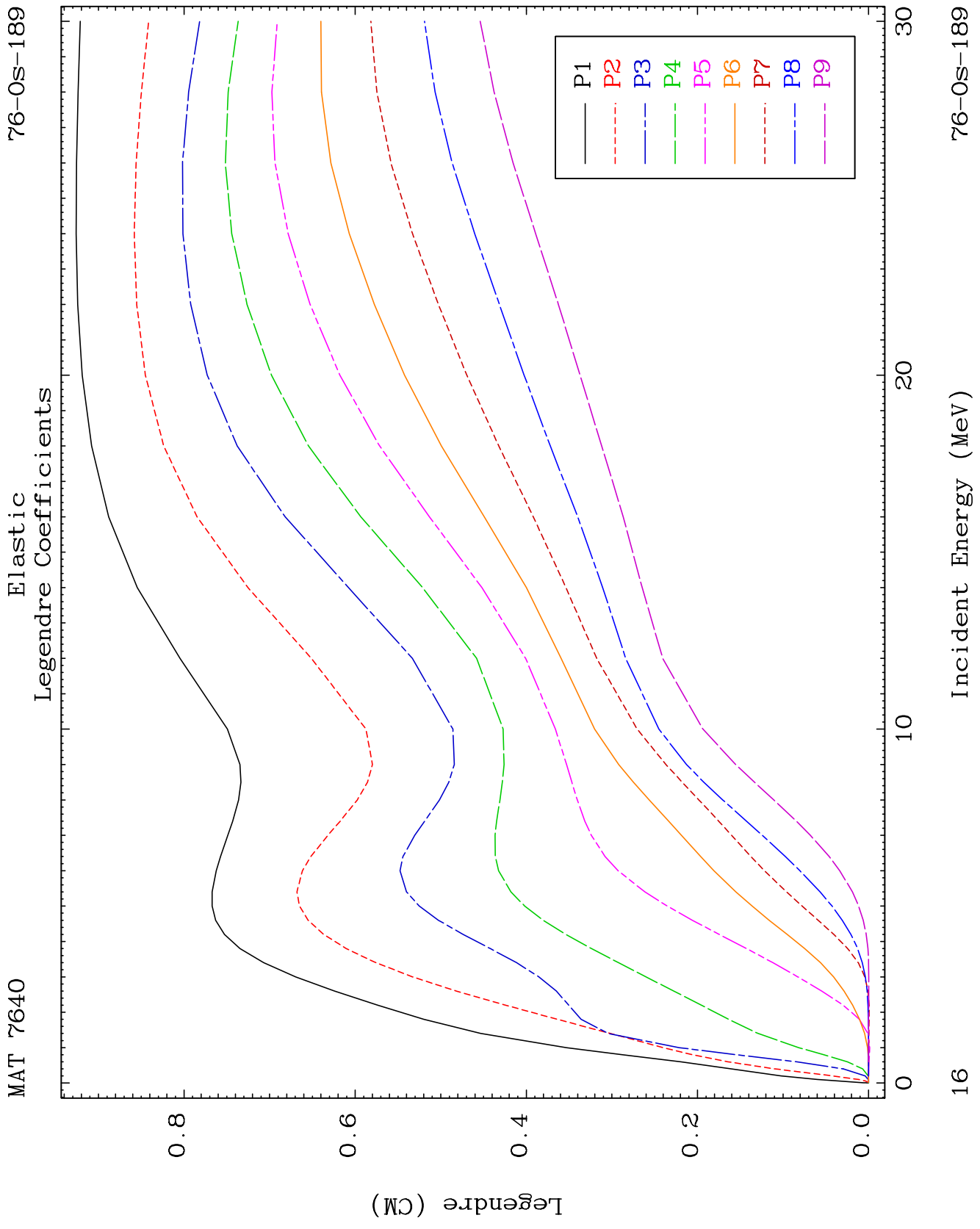
14

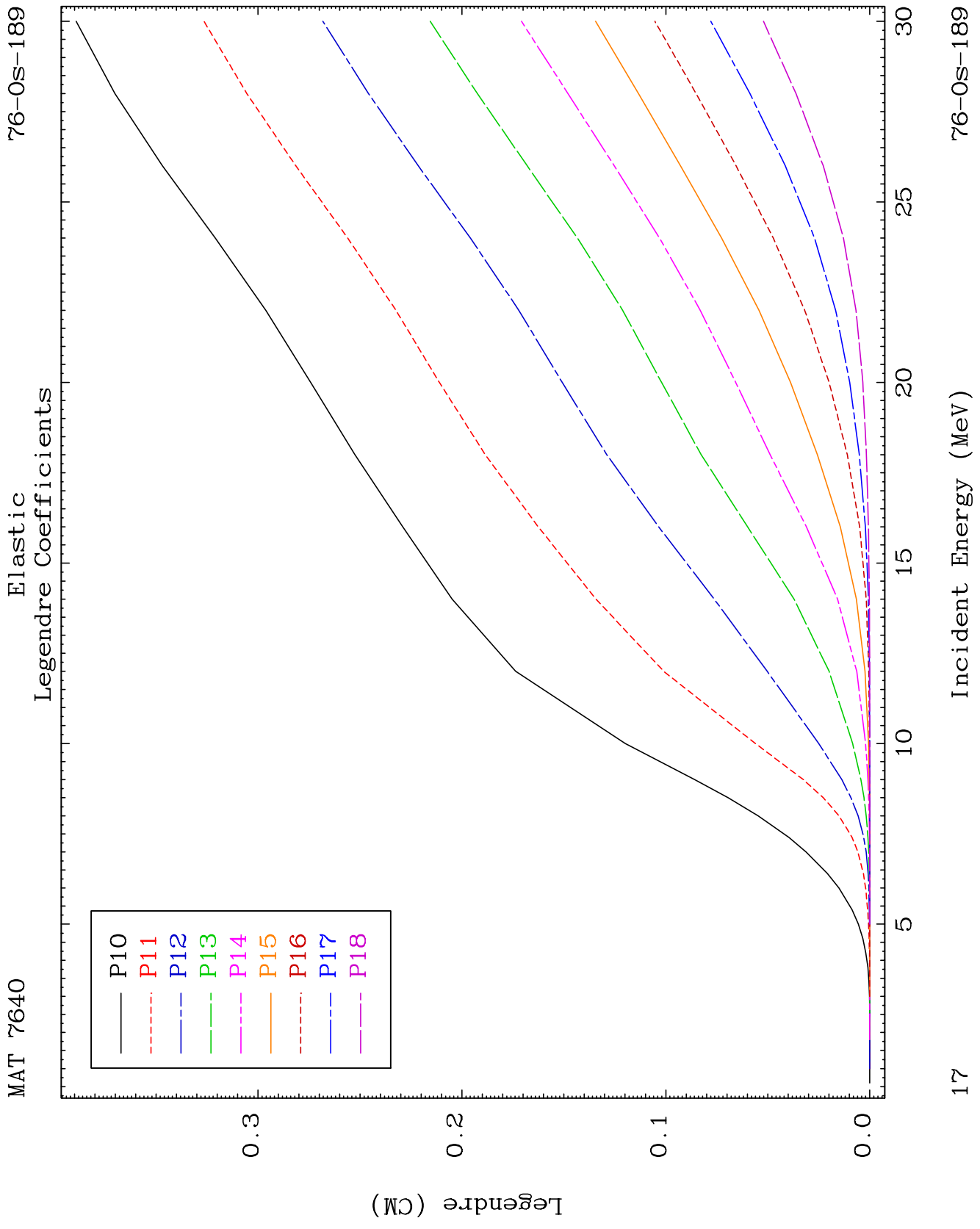
Incident Energy (MeV)

76-Os-189





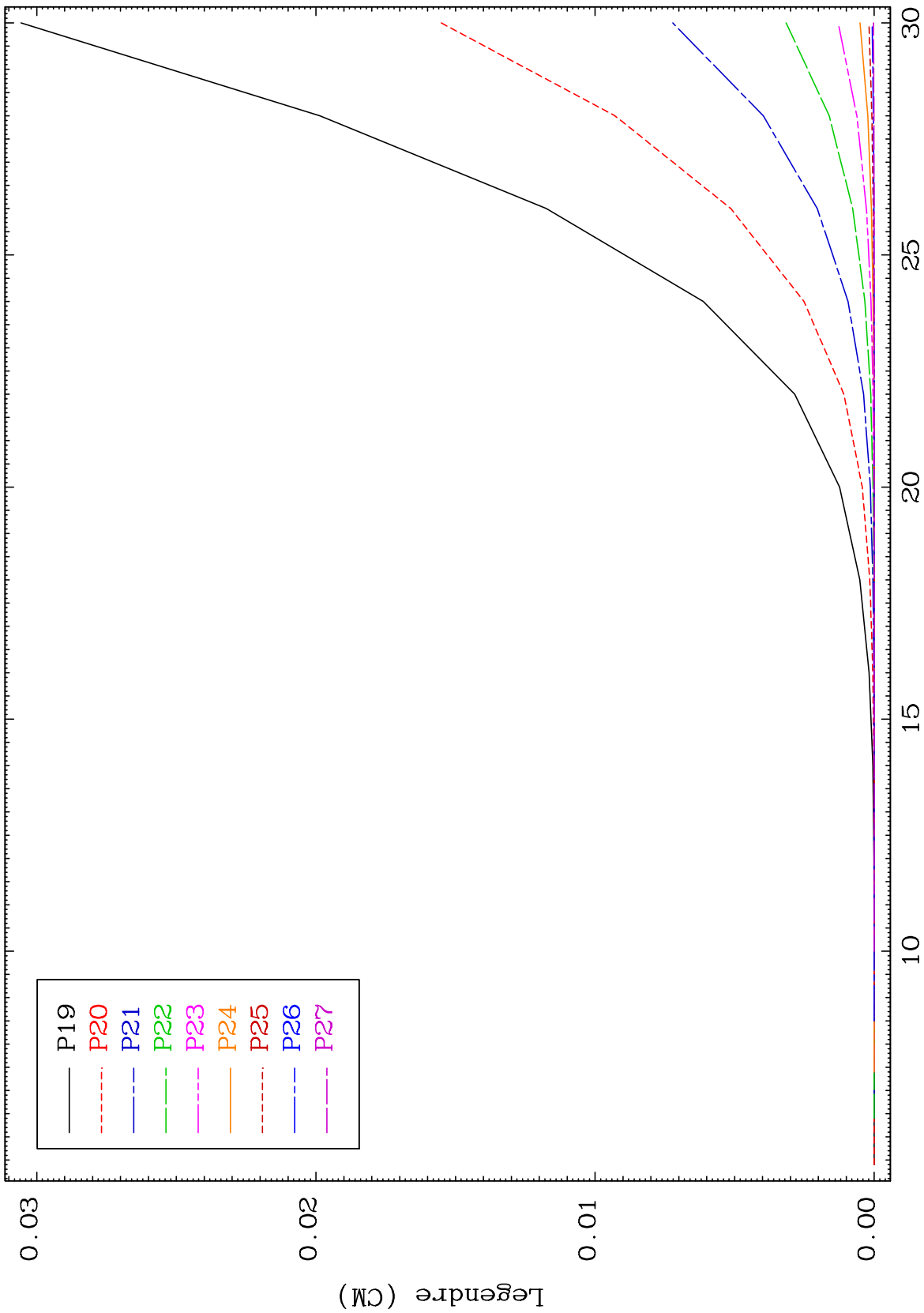




MAT 7640

Elastic  
Legendre Coefficients

76-Os-189



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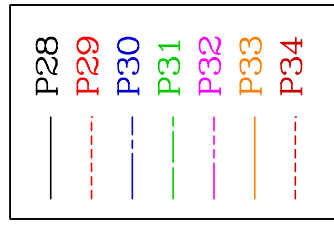
Incident Energy (MeV)

76-Os-189

MAT 7640

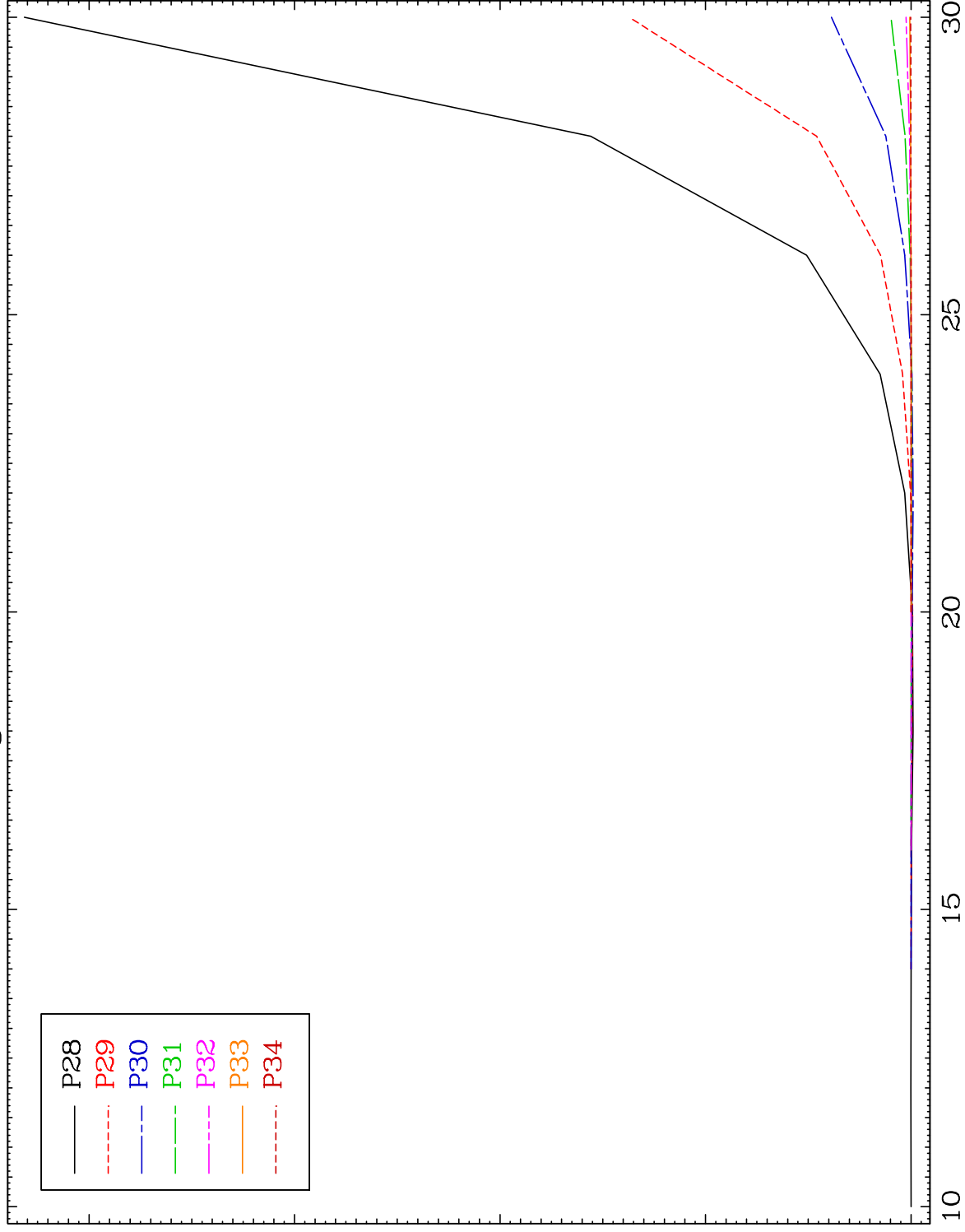
Elastic  
Legendre Coefficients

76-Os-189



$\times 10^{-6}$

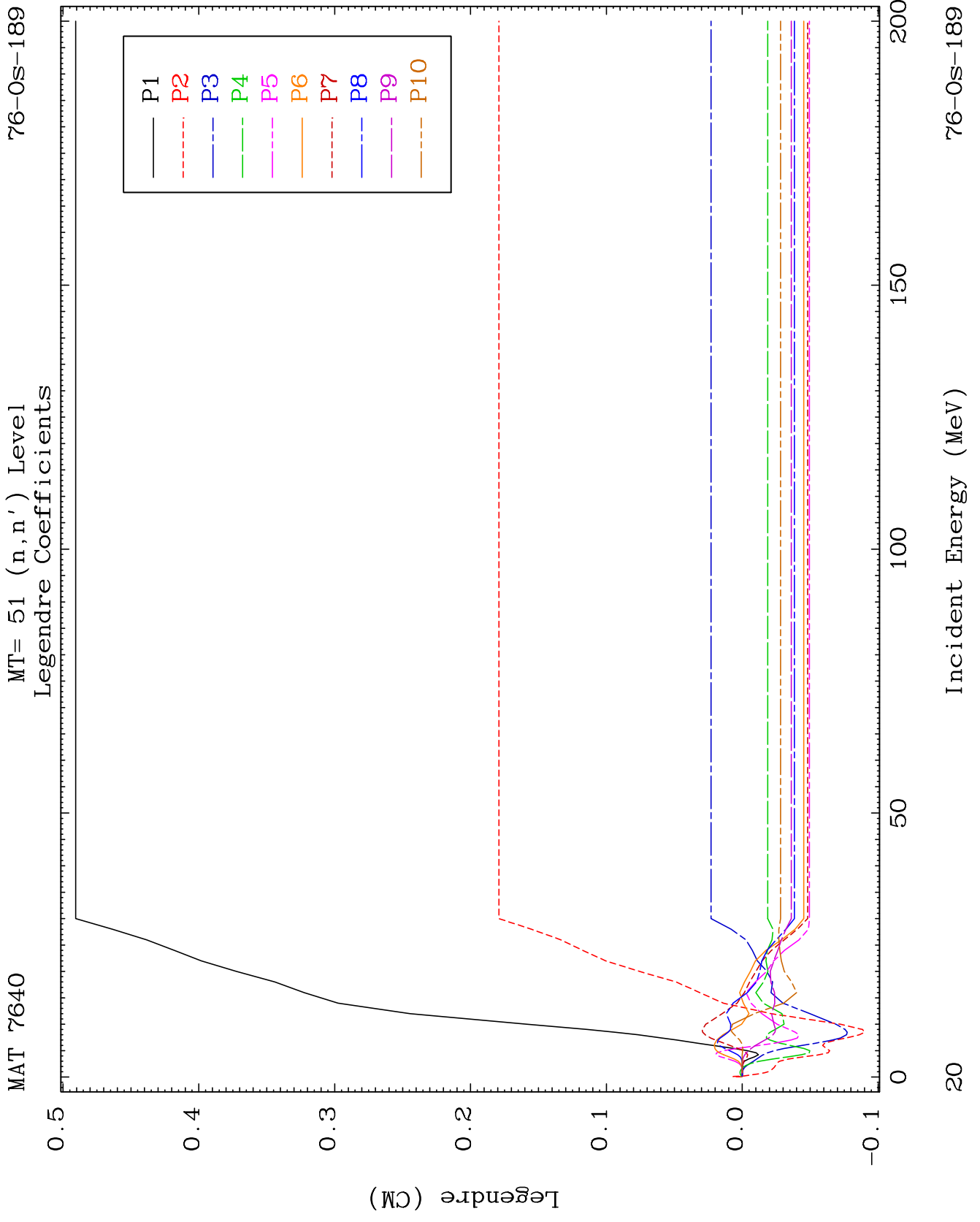
Legendre (CM)



10

Incident Energy (MeV)

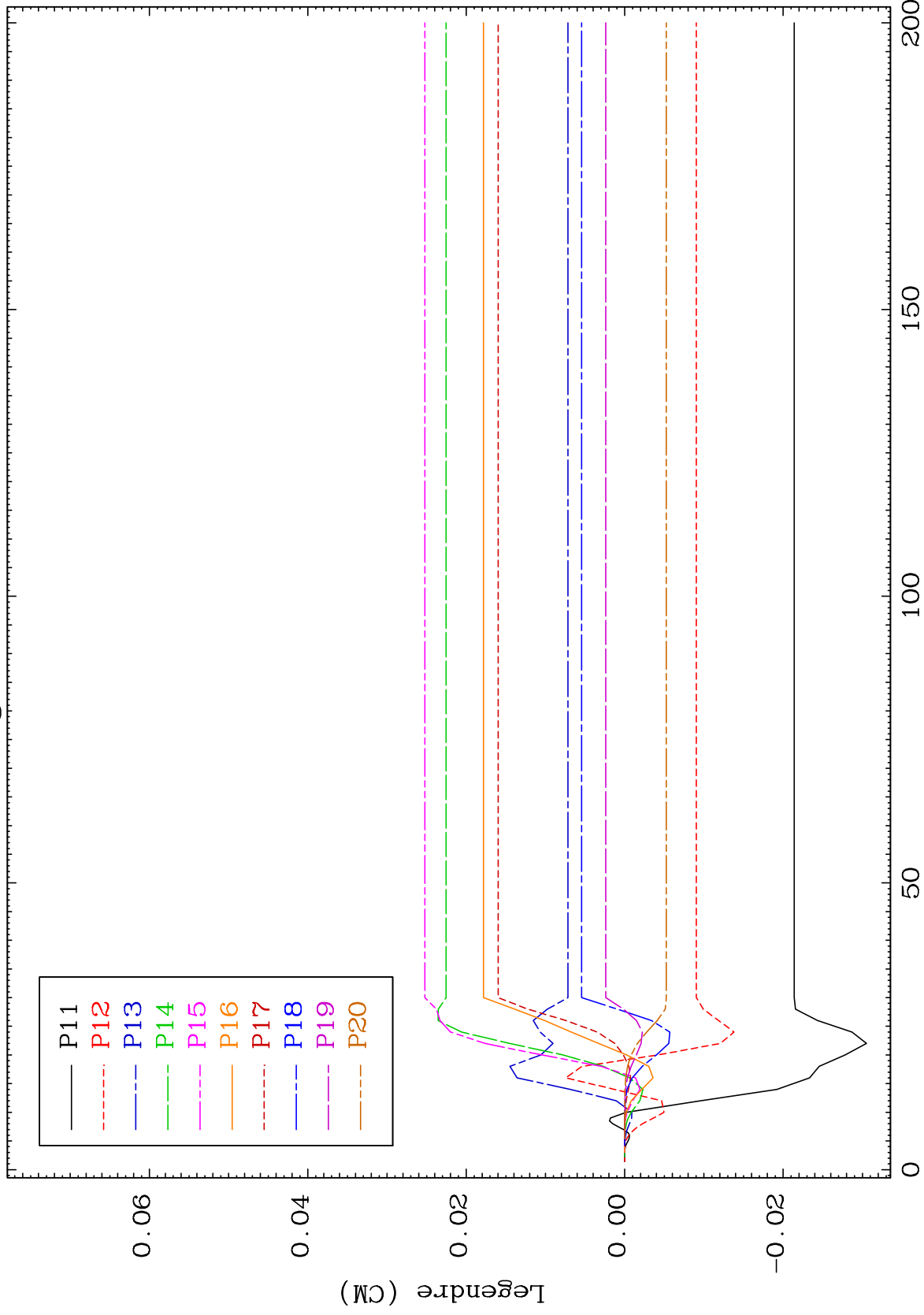
76-Os-189



MAT 7640

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

76-0s-189



21

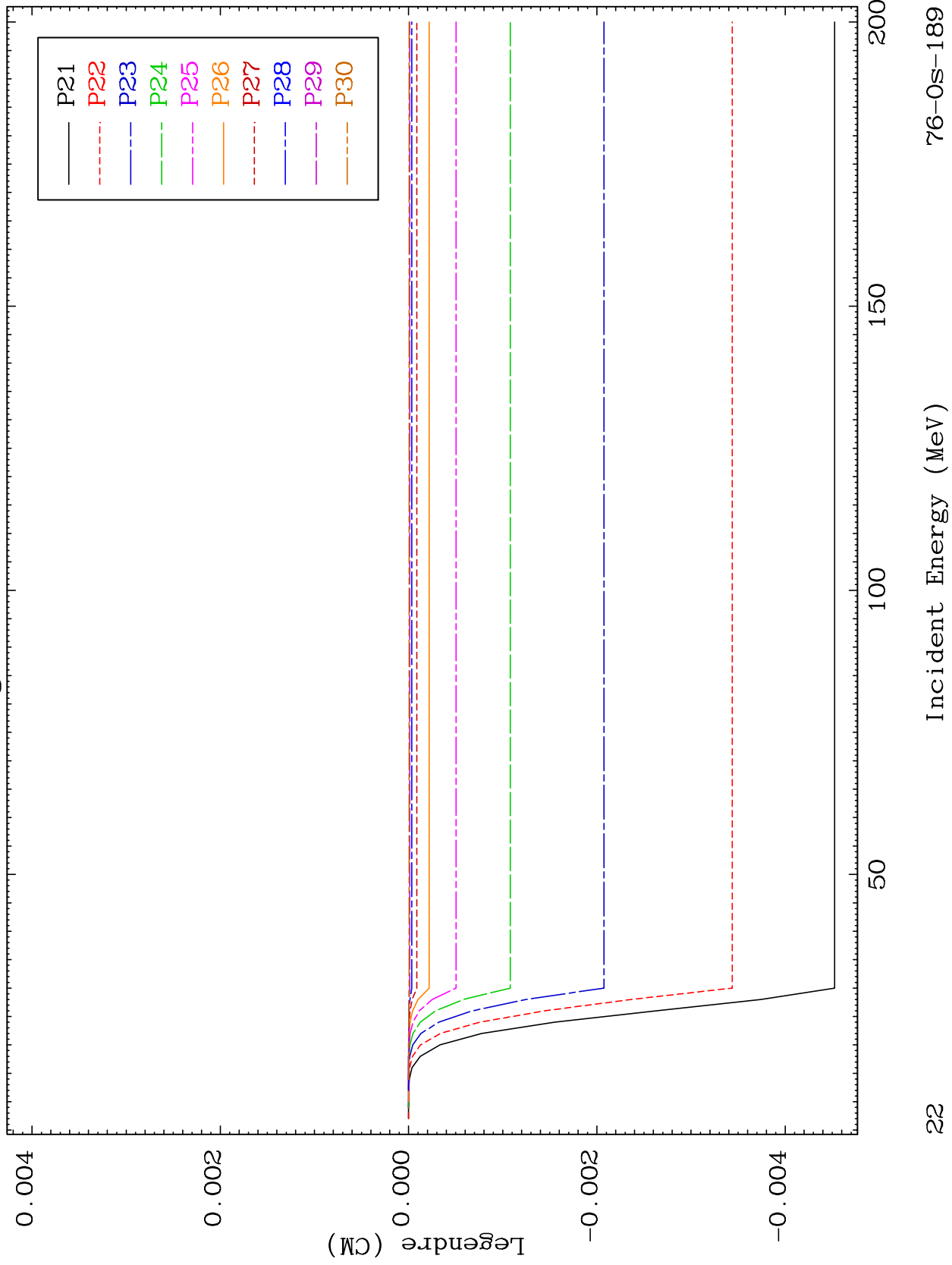
Incident Energy (MeV)

76-0s-189

MAT 7640

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

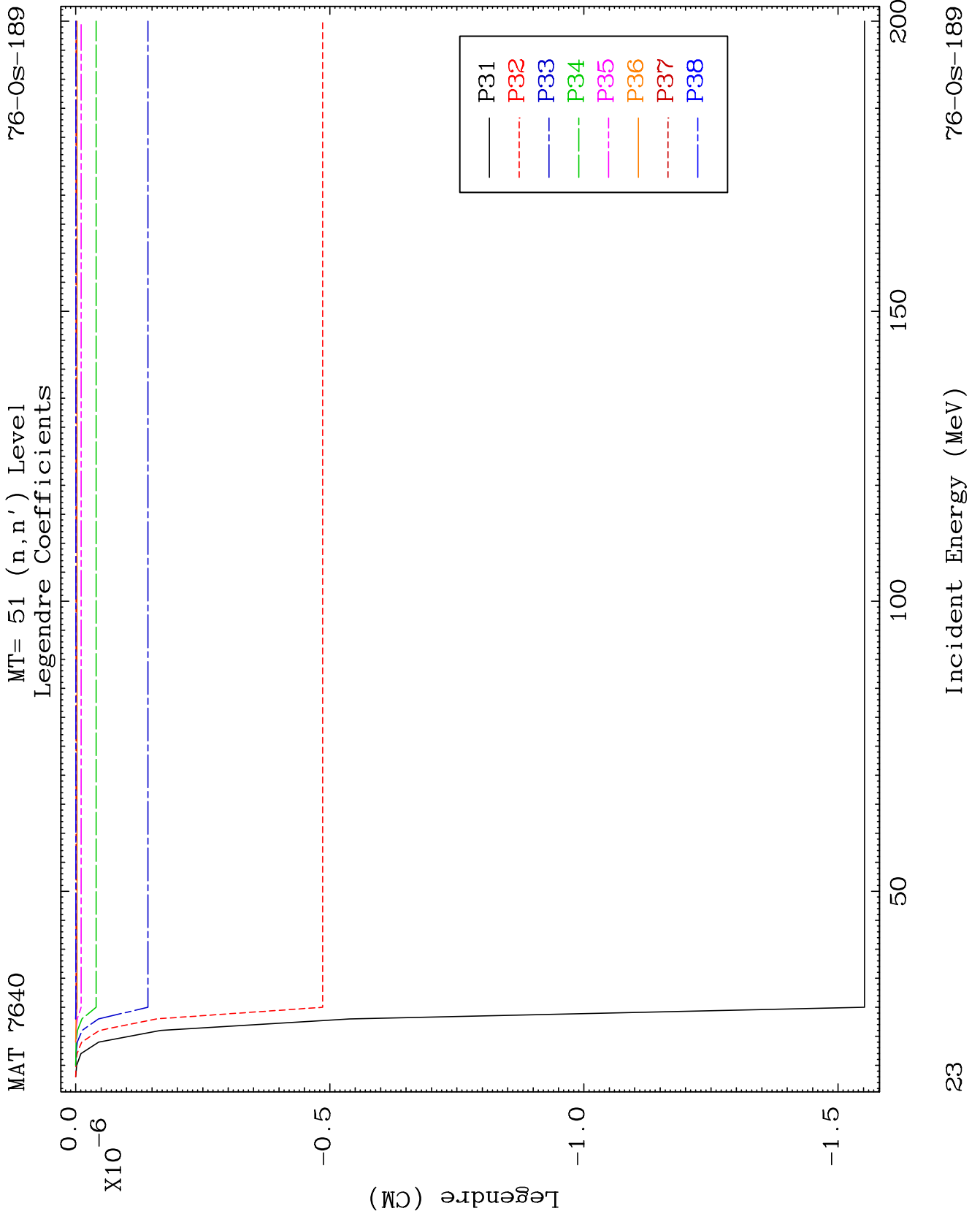
76-Os-189



22

Incident Energy (MeV)

76-Os-189

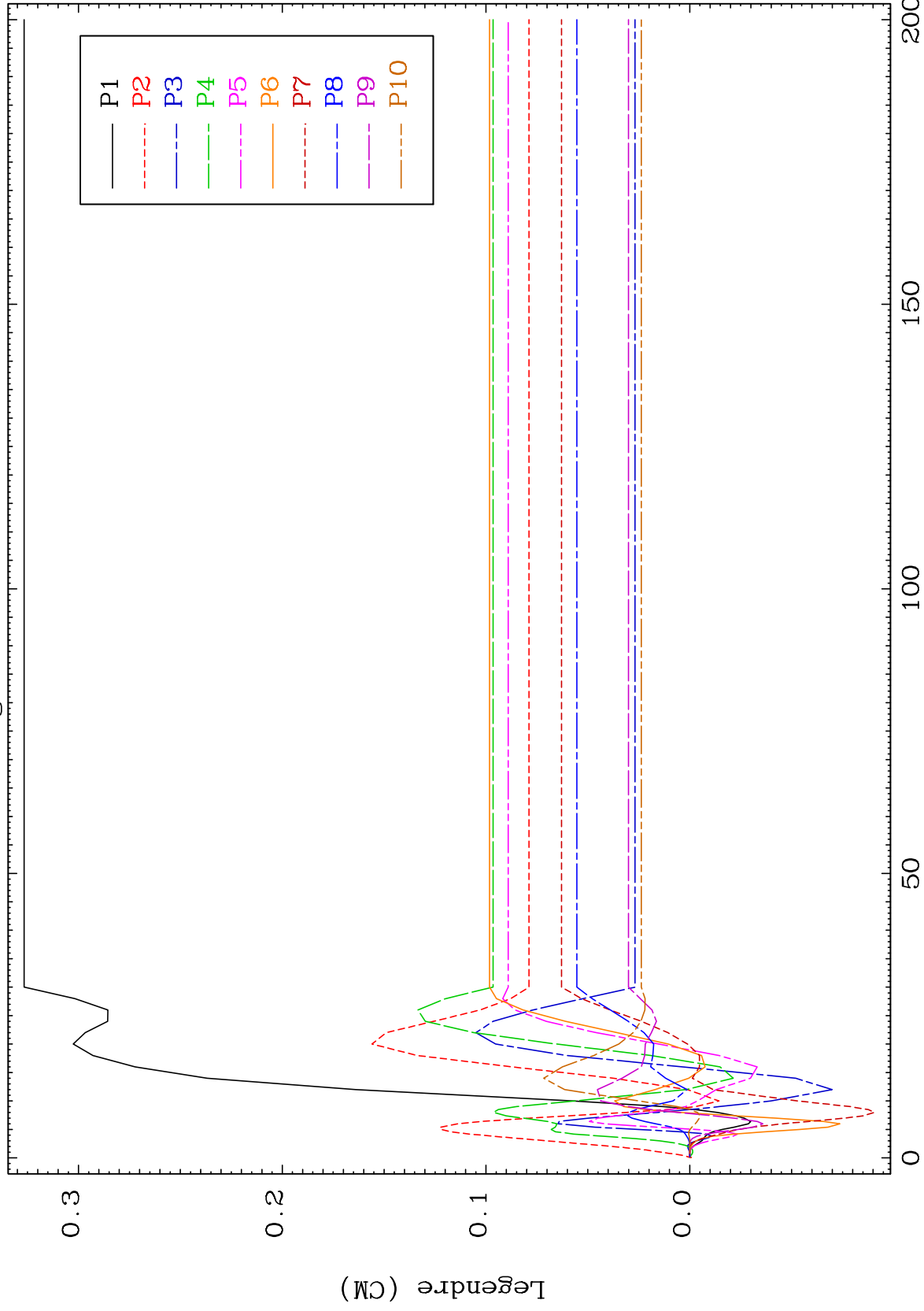




MAT 7640

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

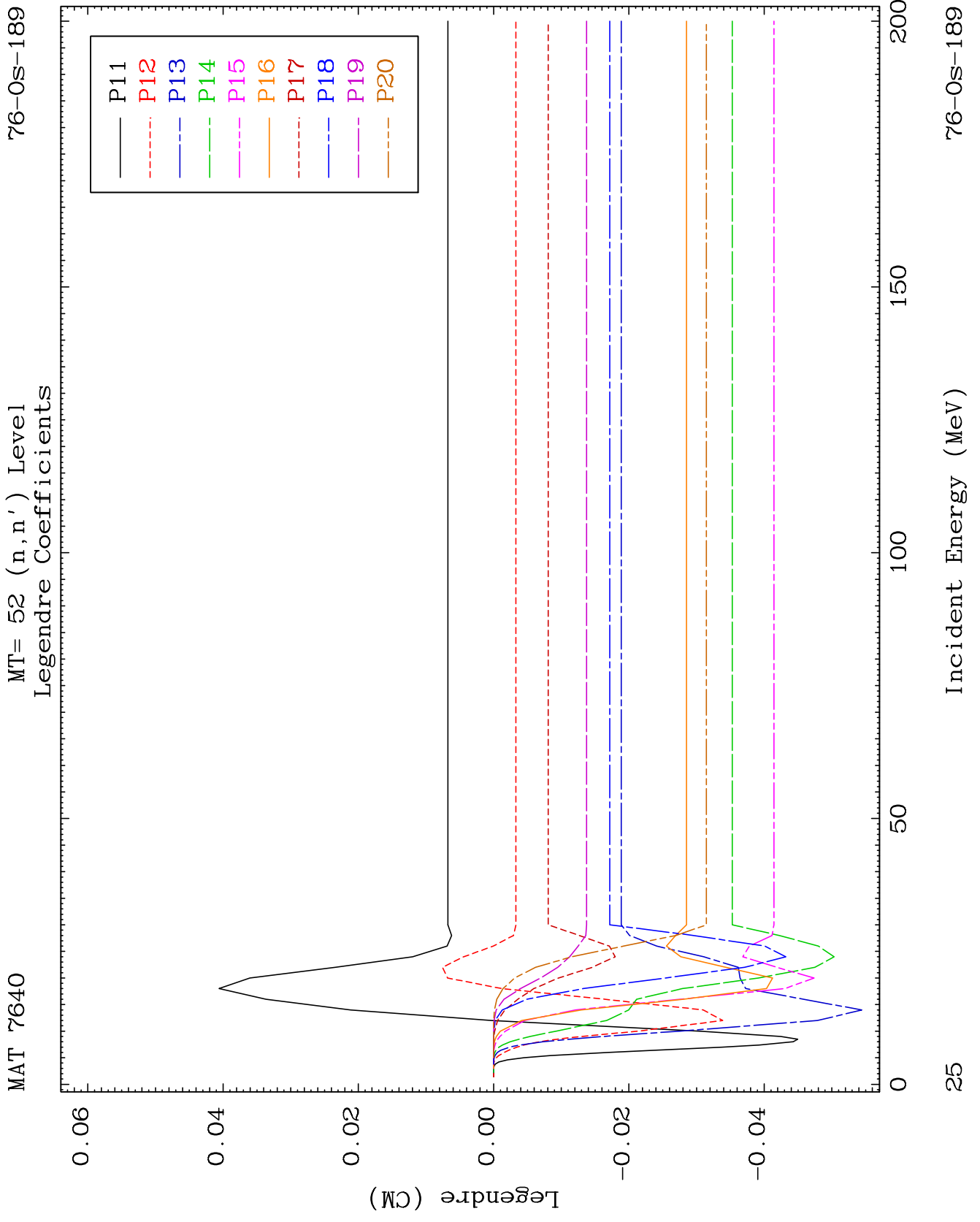
76-Os-189



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Incident Energy (MeV)

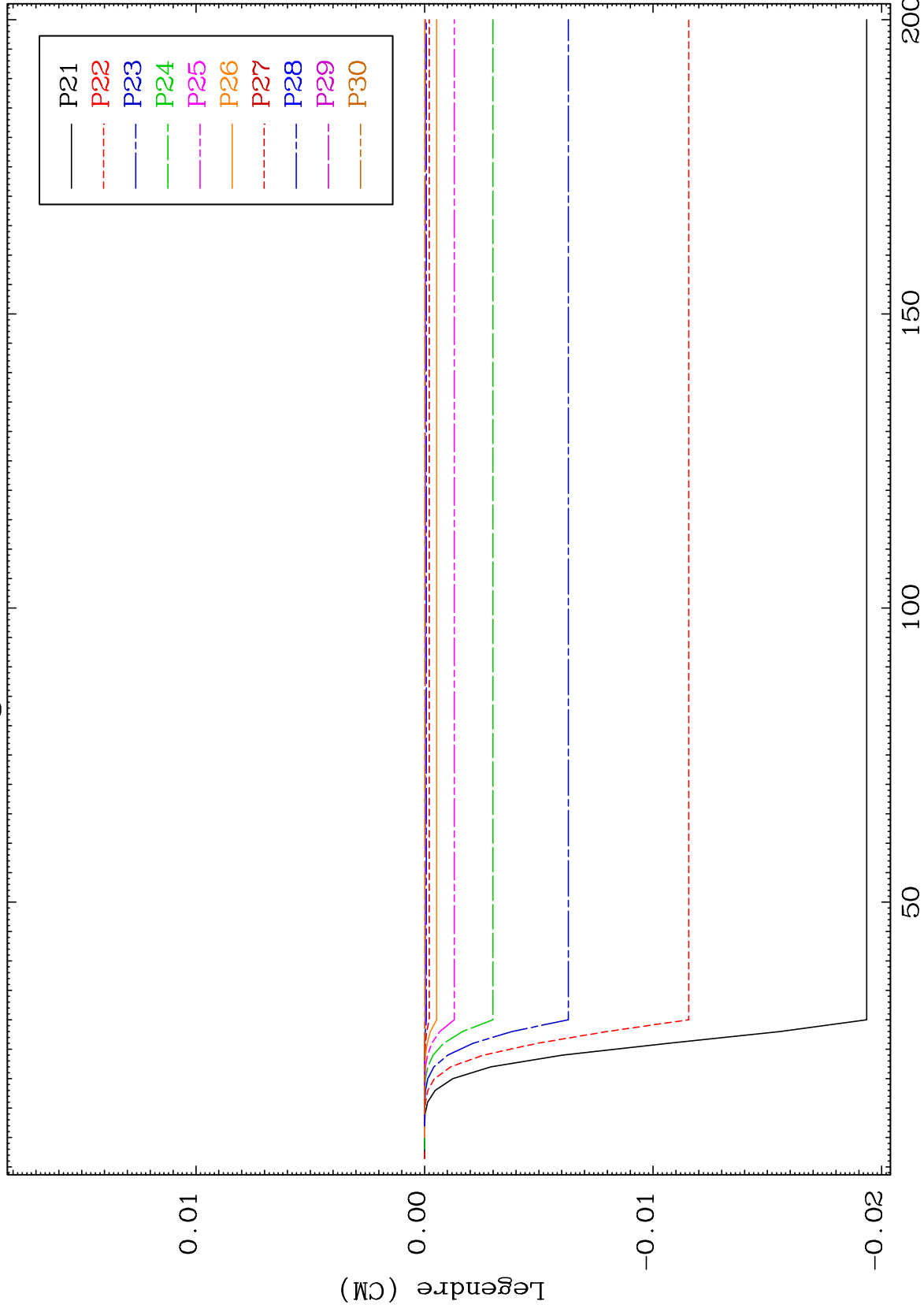
76-Os-189



MAT 7640

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

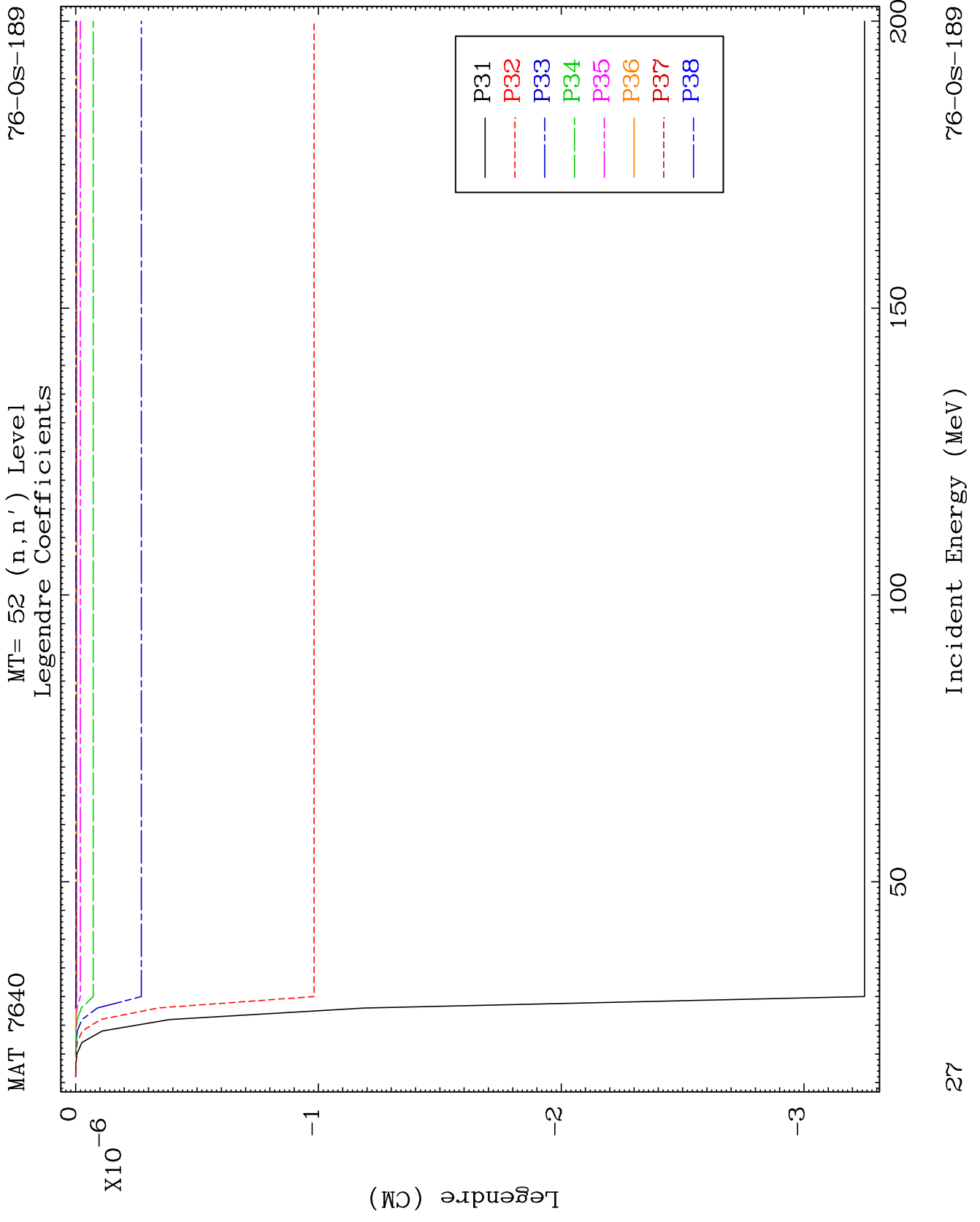
76-Os-189

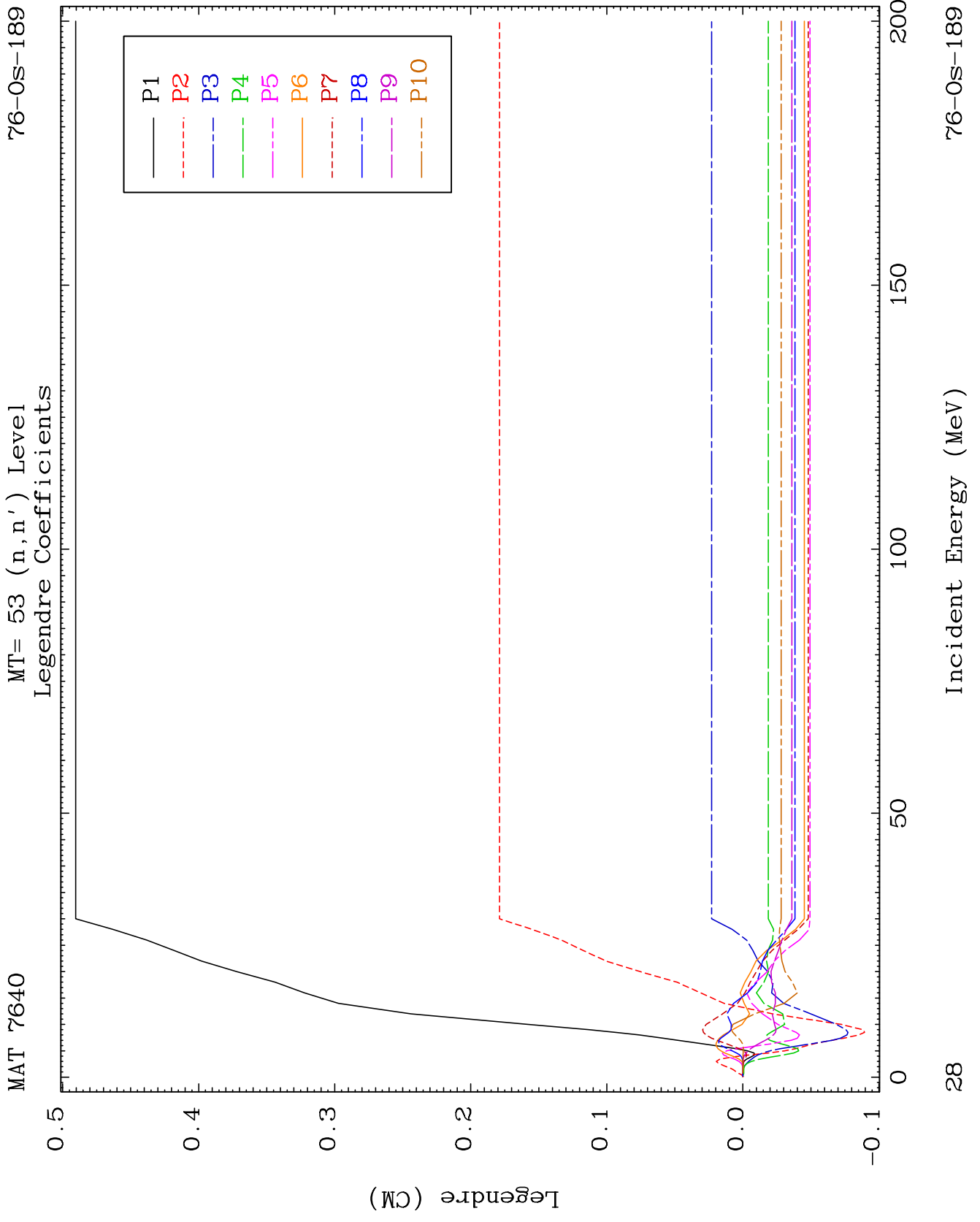


26

Incident Energy (MeV)

76-Os-189

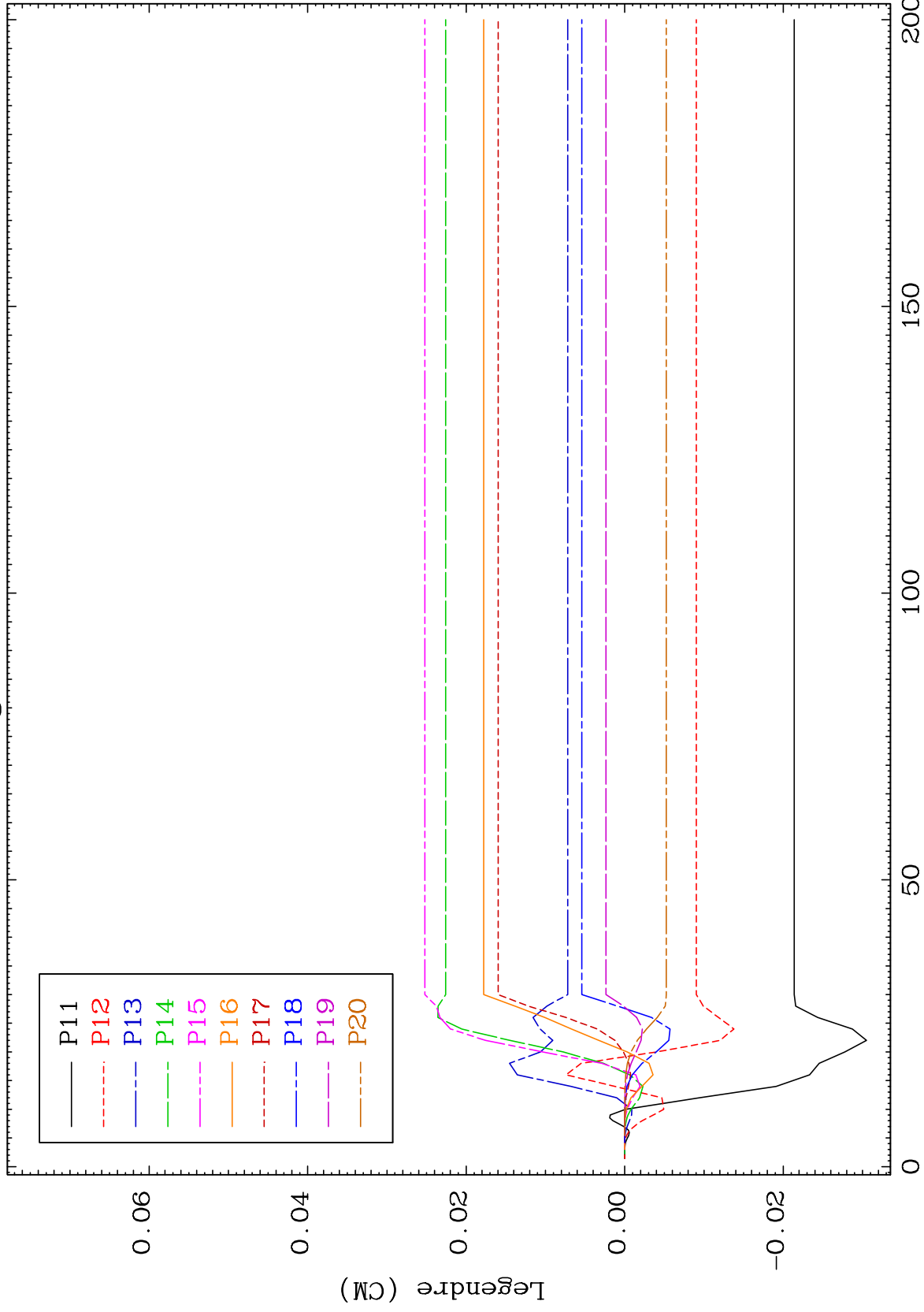




MAT 7640

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

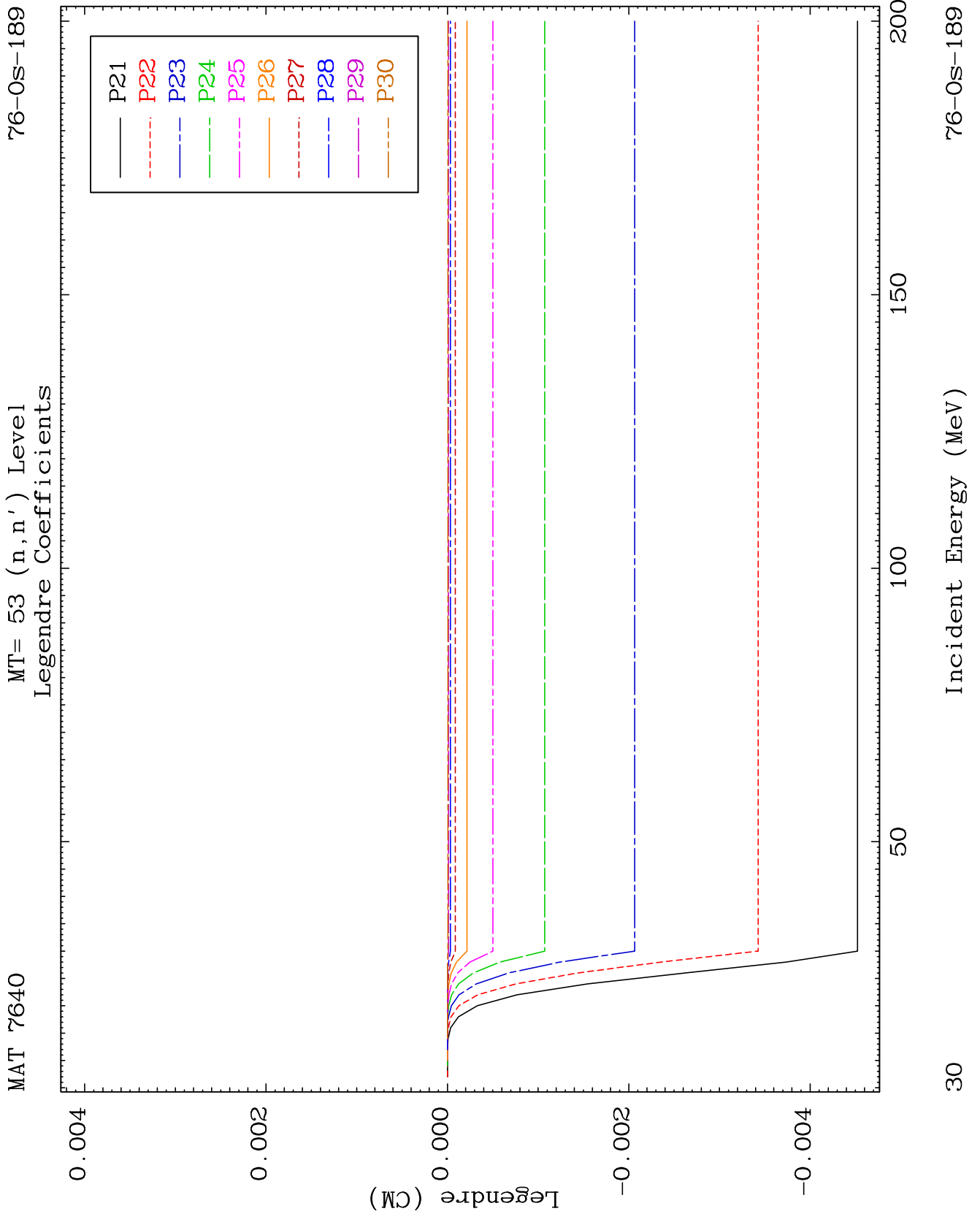
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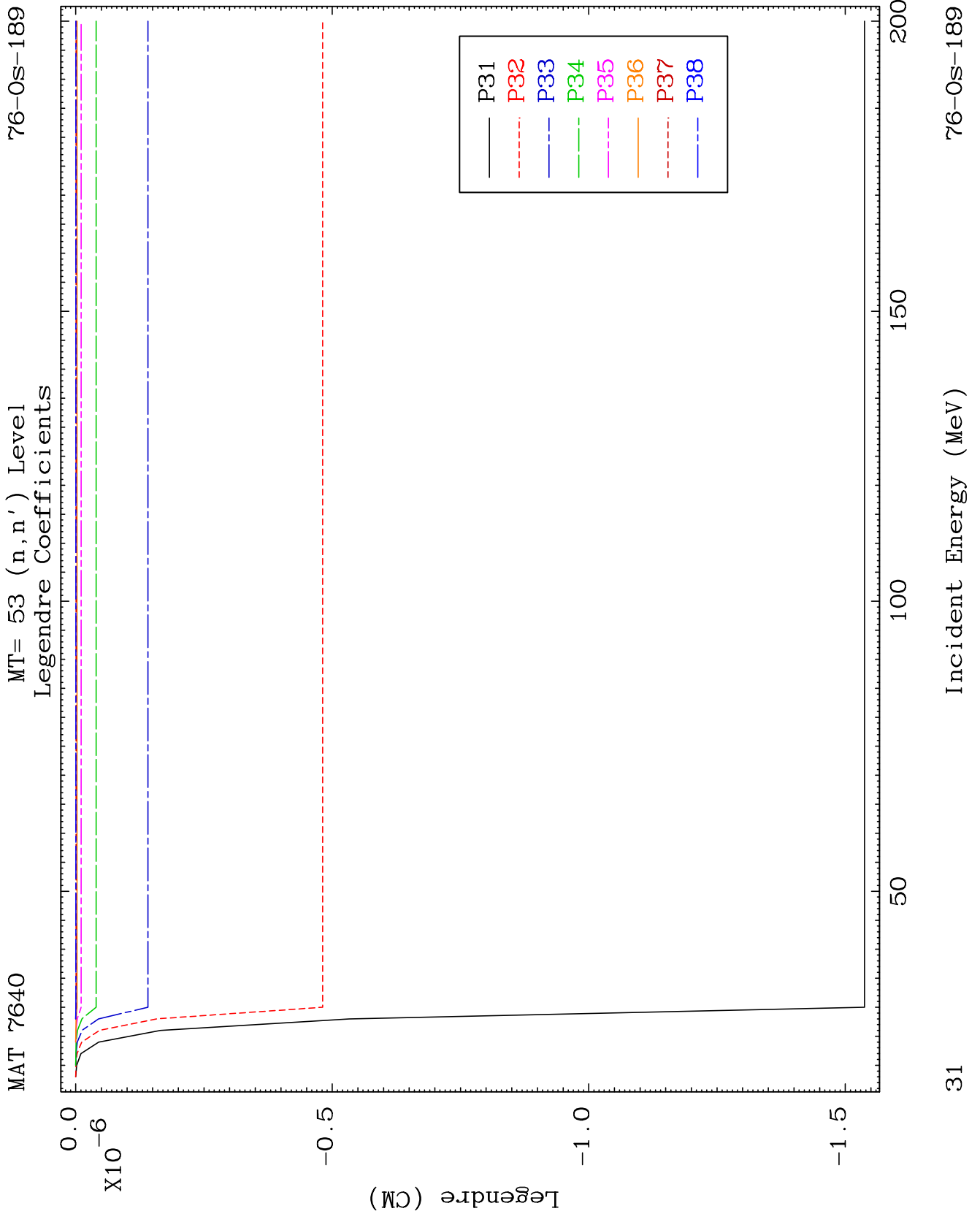


29

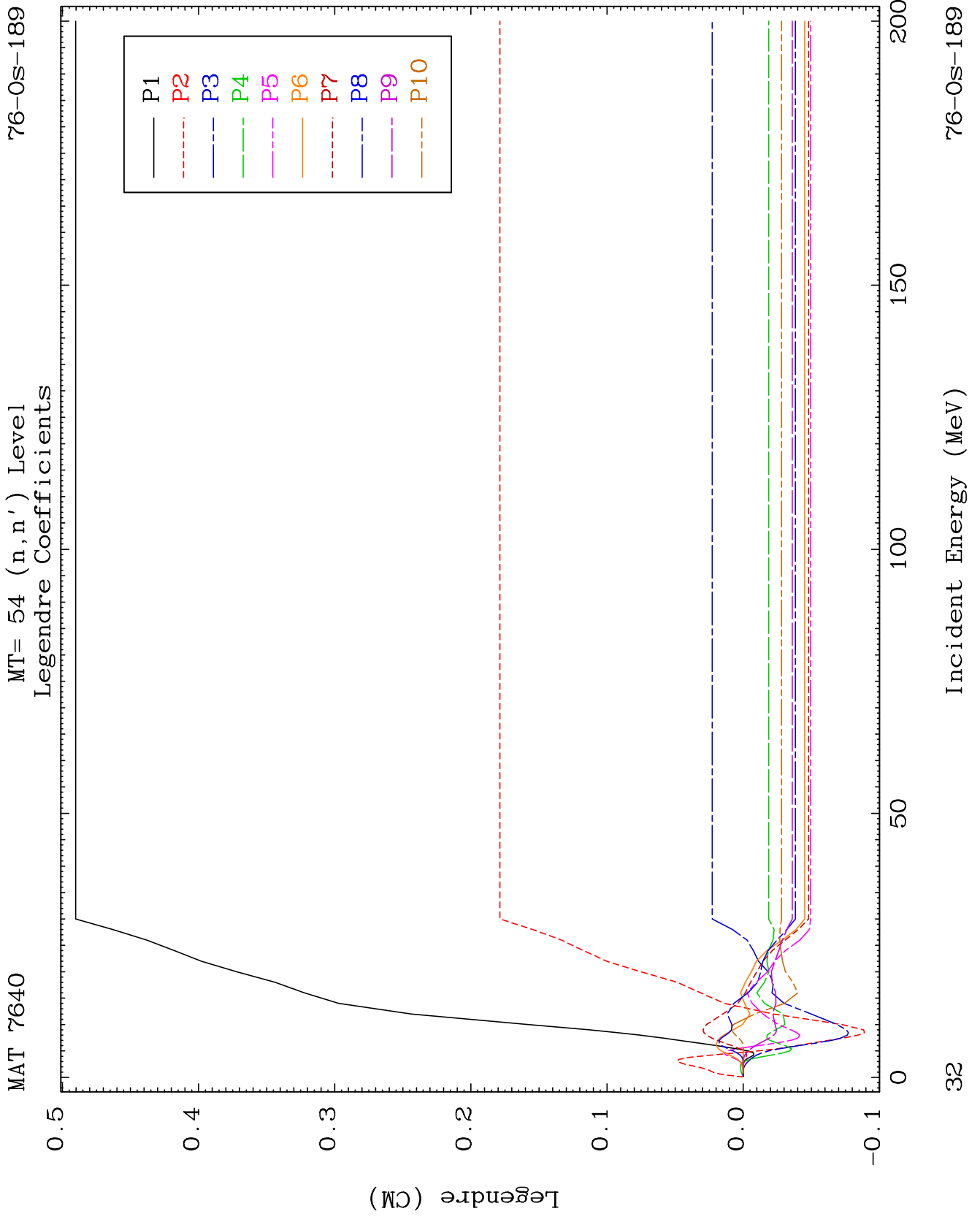
Incident Energy (MeV)

76-0s-189





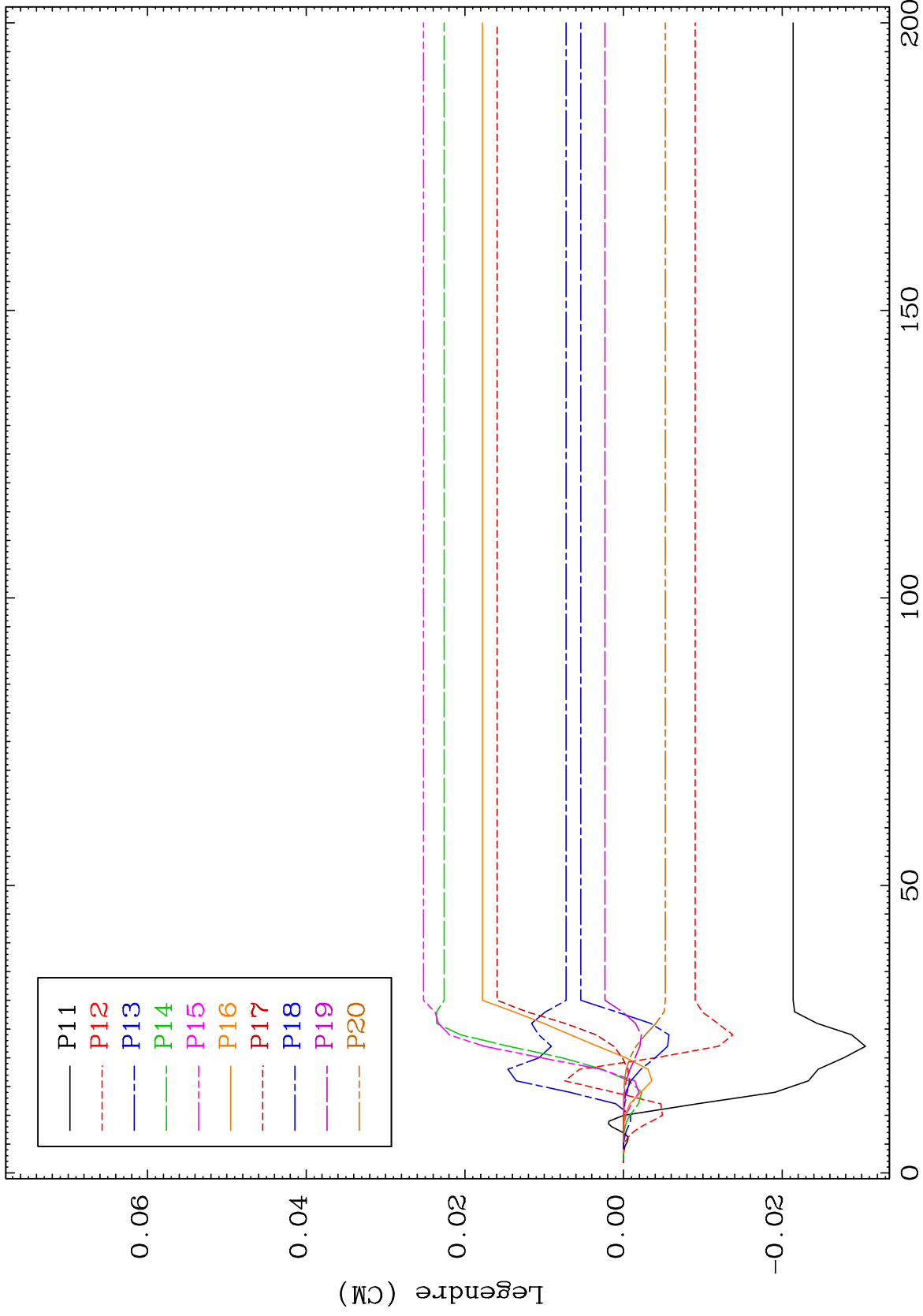




MAT 7640

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

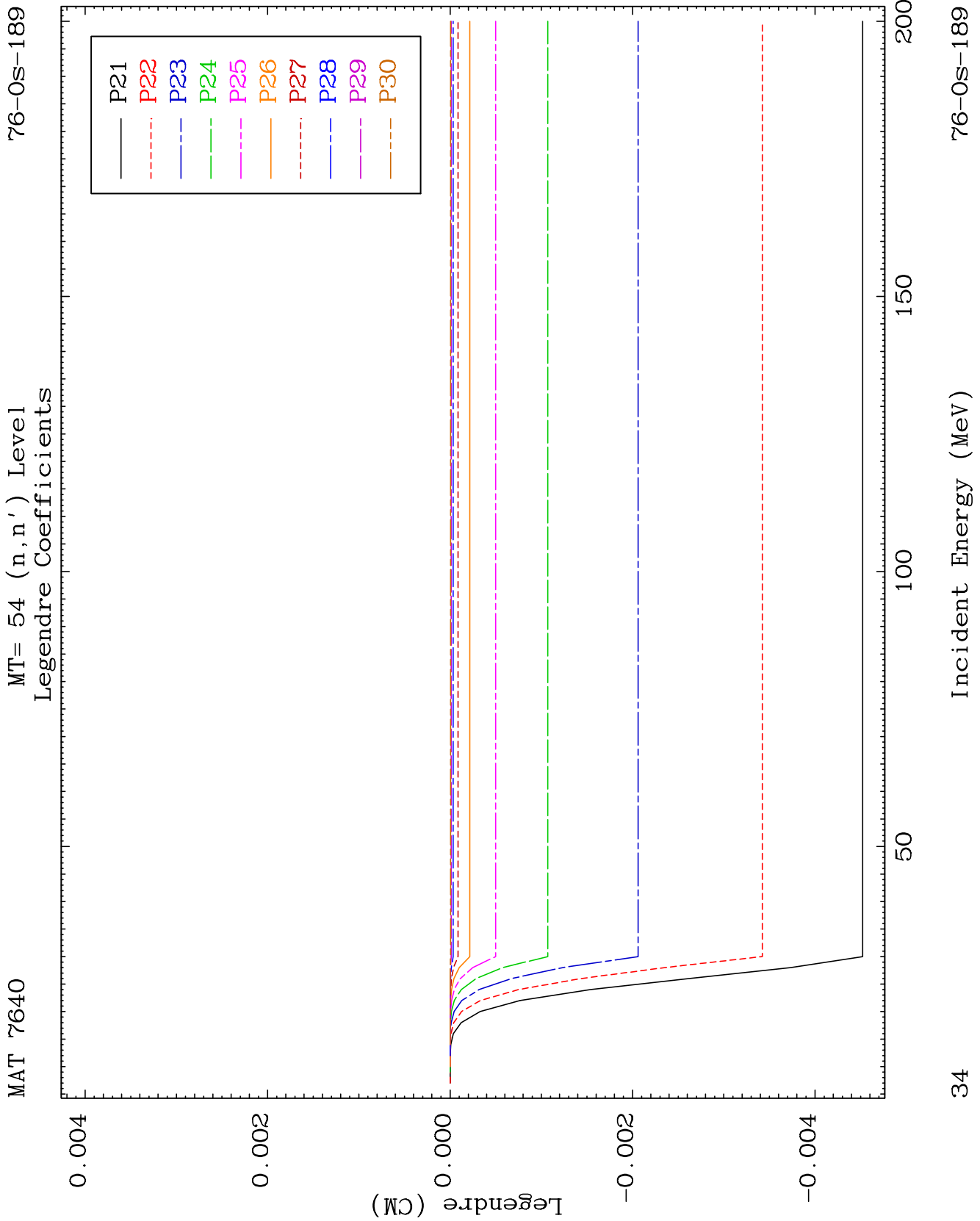
76-0s-189

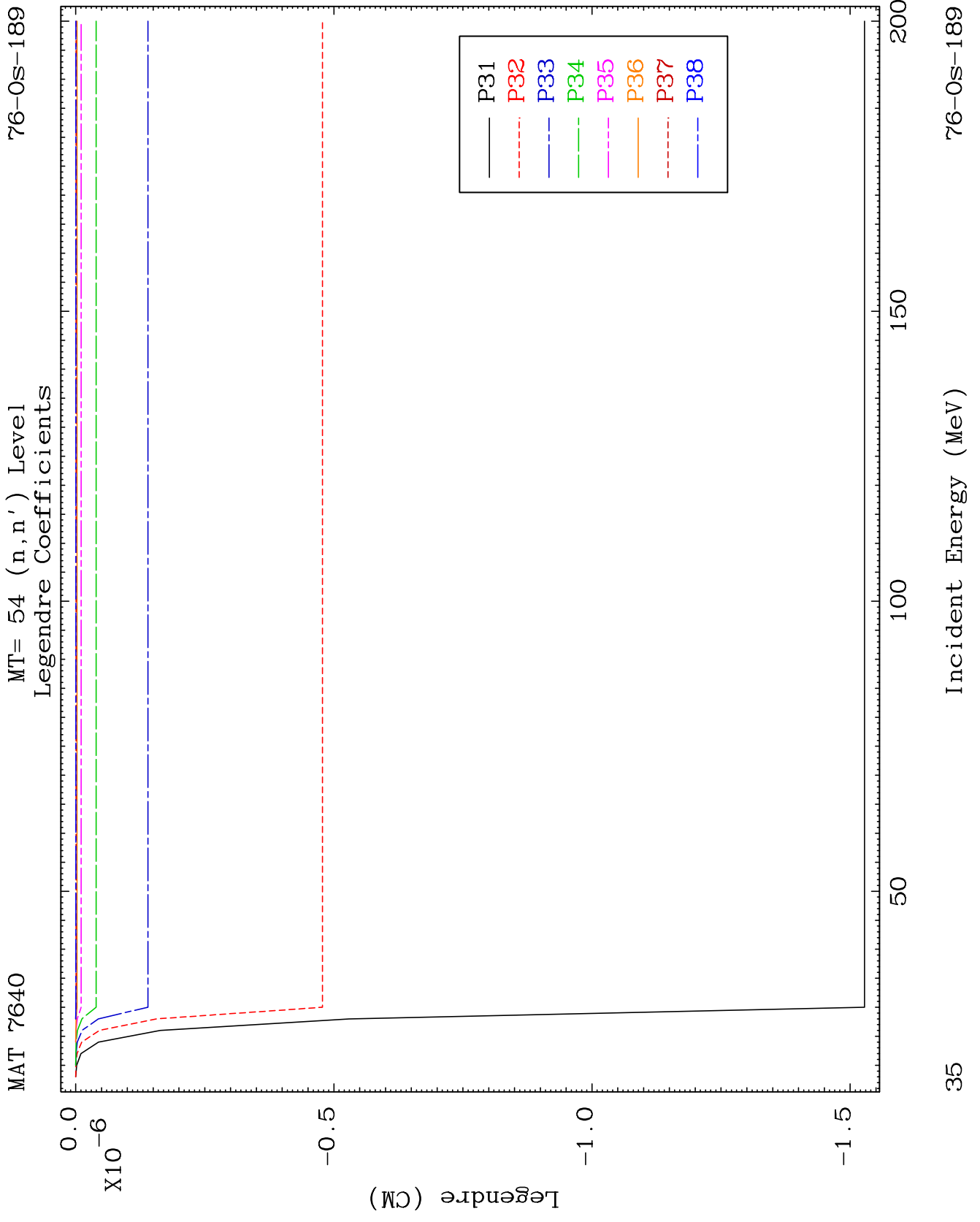


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Incident Energy (MeV)

76-0s-189

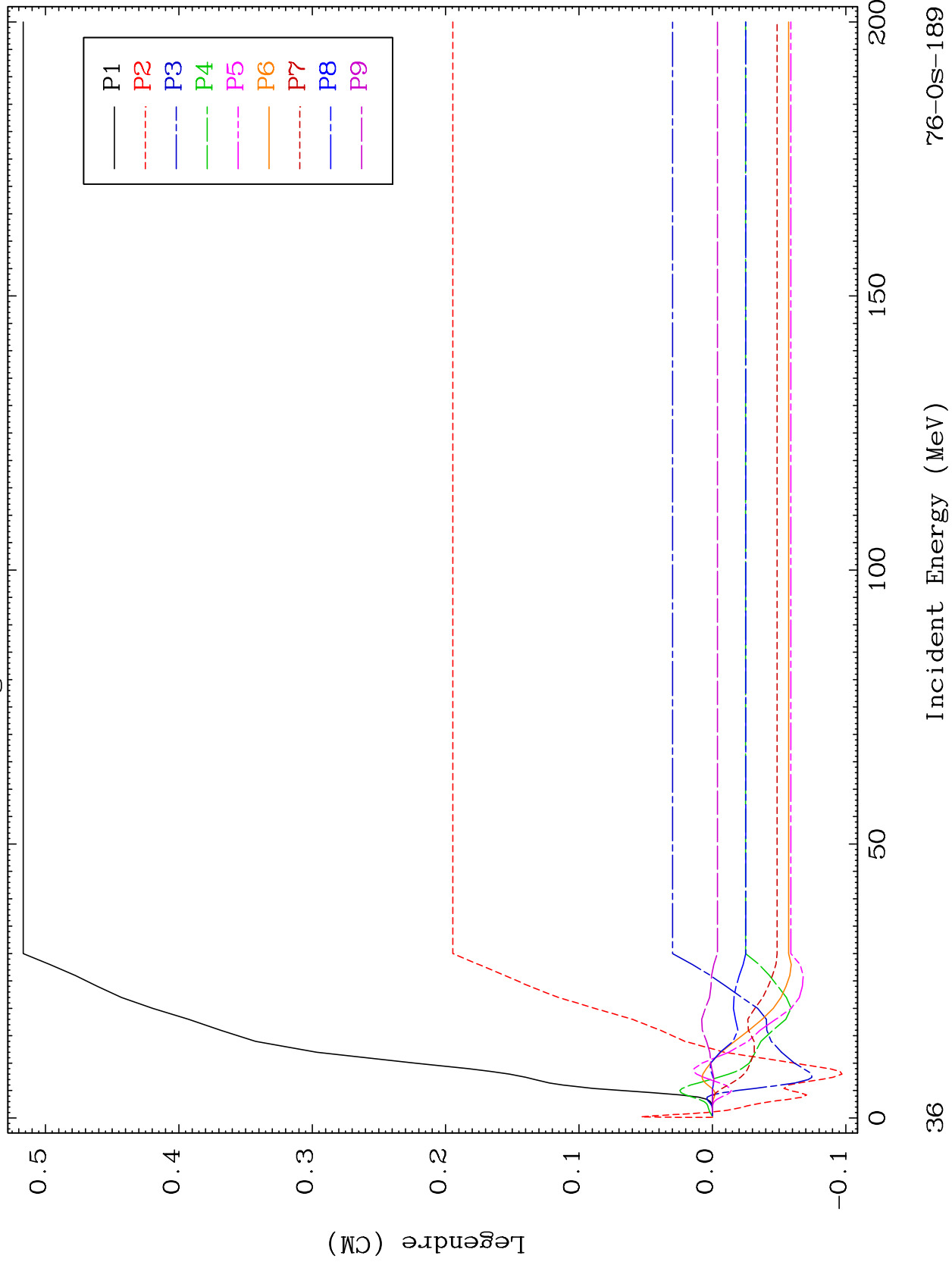




MAT 7640

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

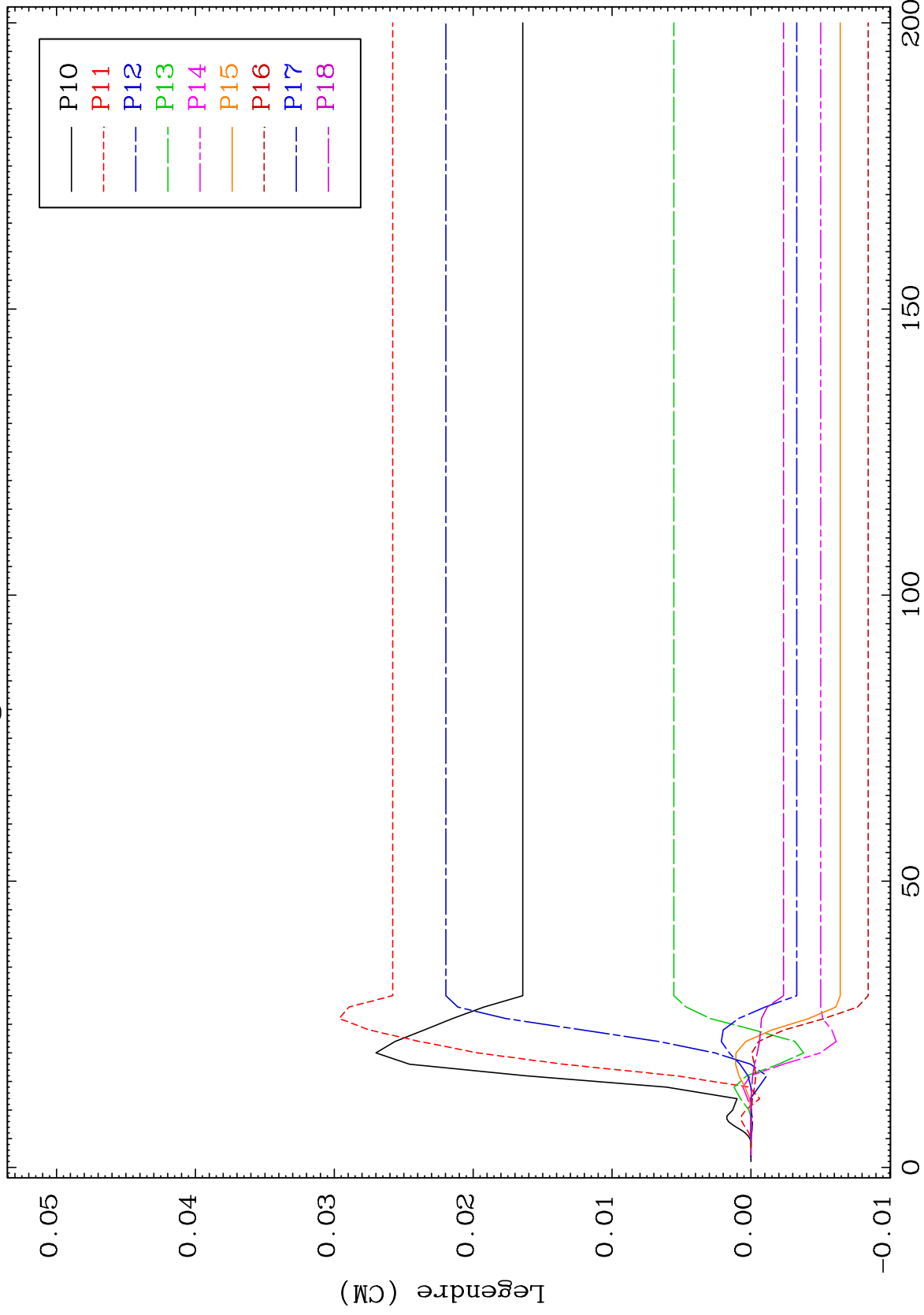
76-Os-189



MAT 7640

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

76-Os-189



37

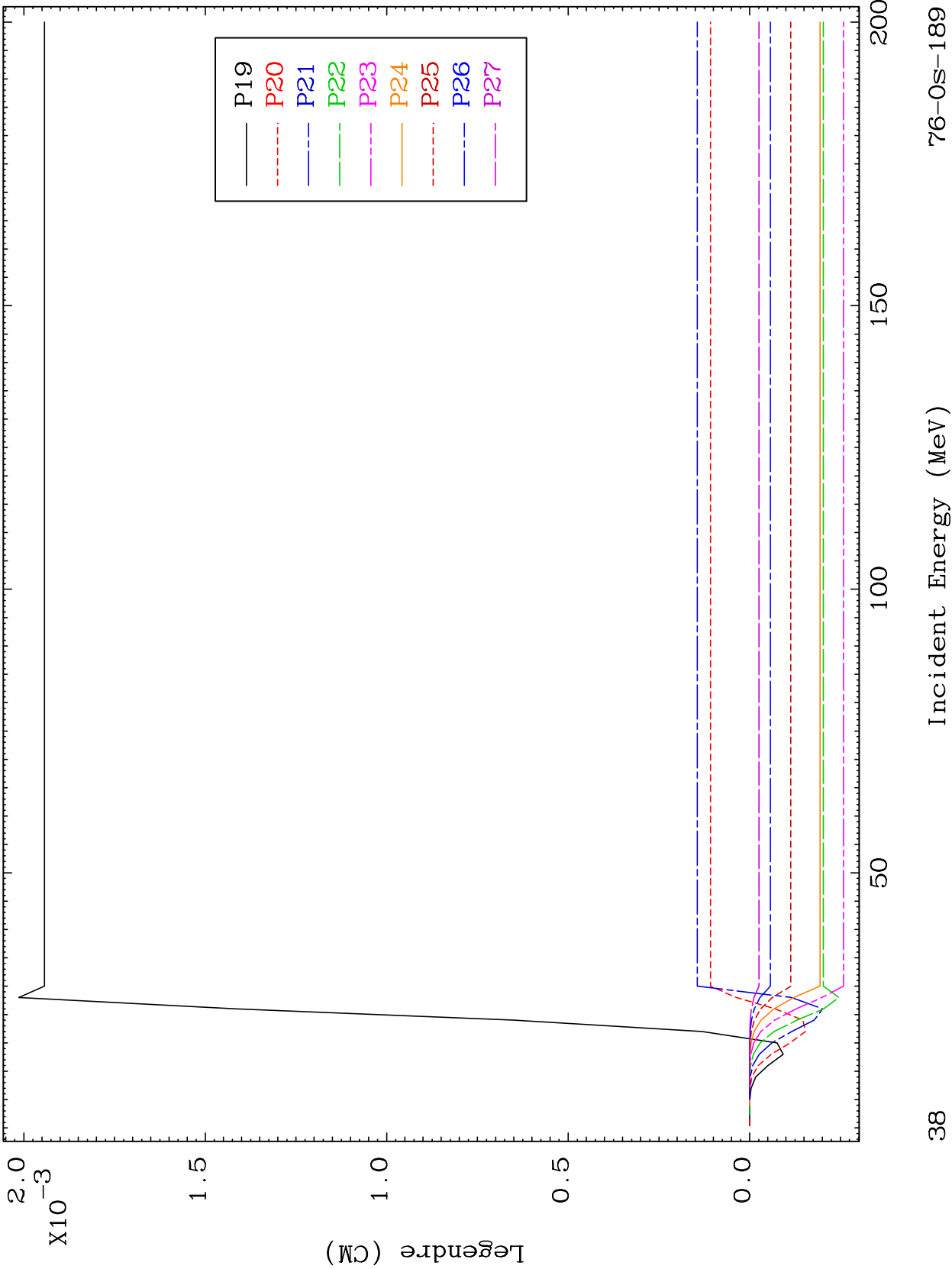
Incident Energy (MeV)

76-Os-189

MAT 7640

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

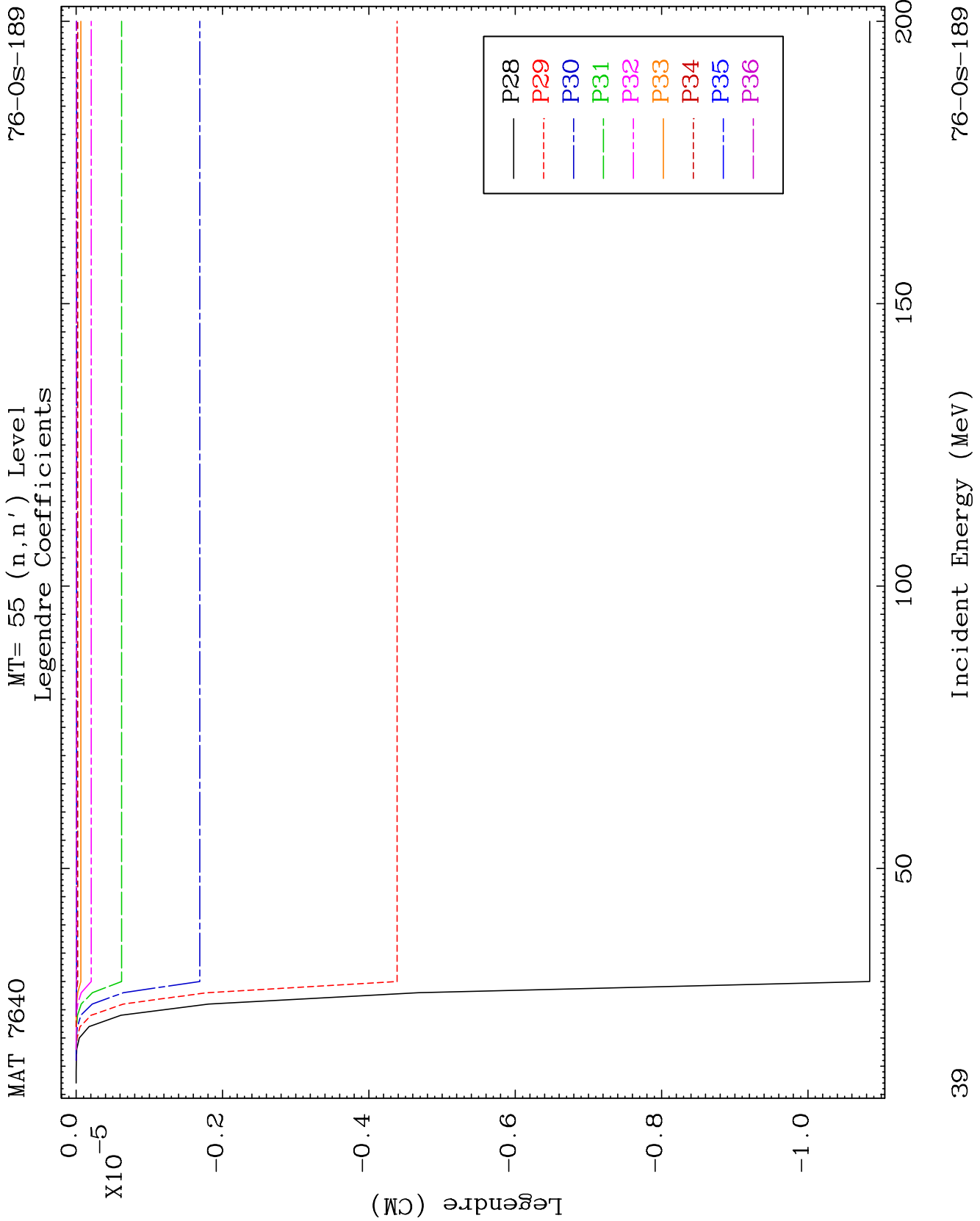
76-Os-189



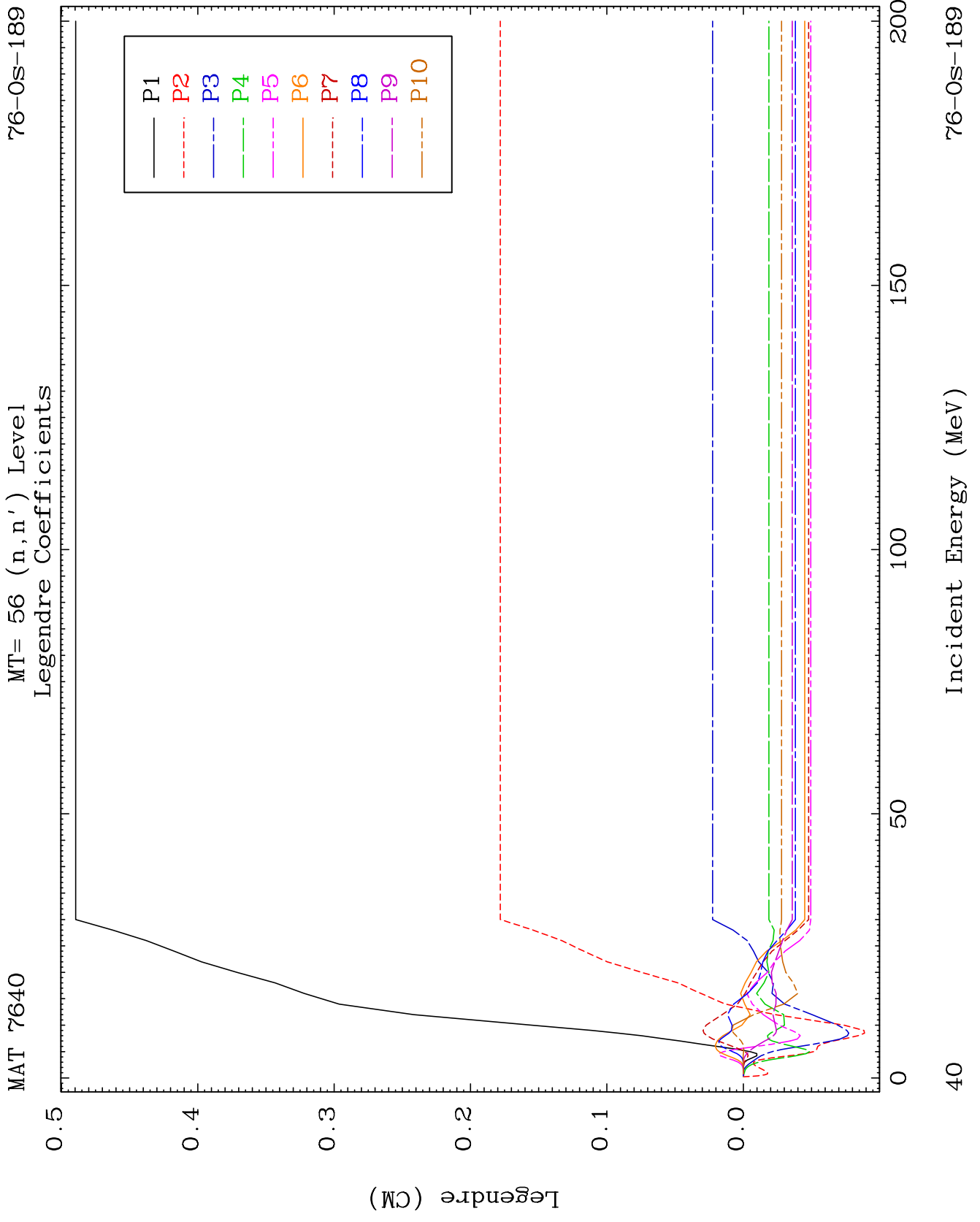
38

Incident Energy (MeV)

76-Os-189



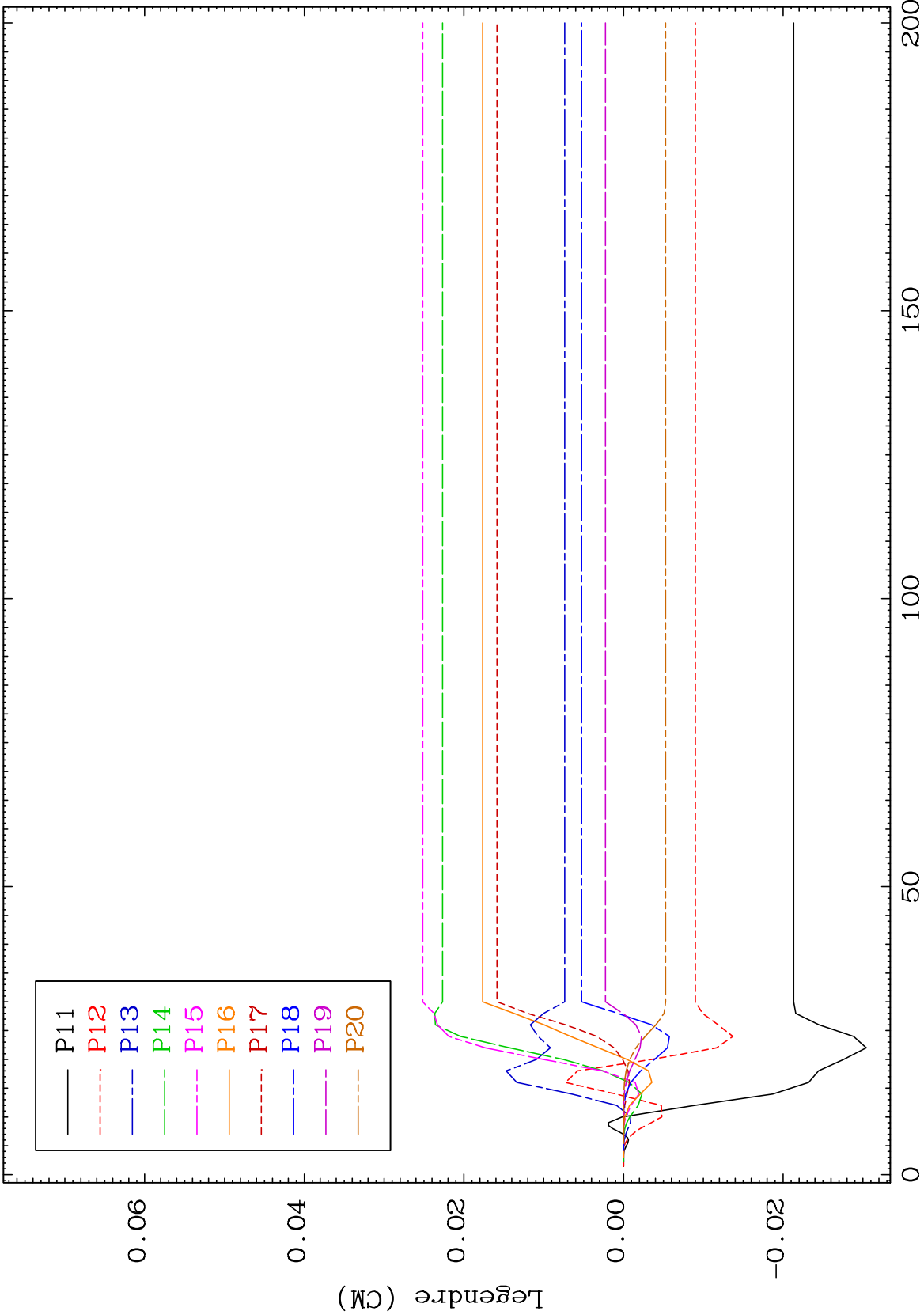




MAT 7640

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

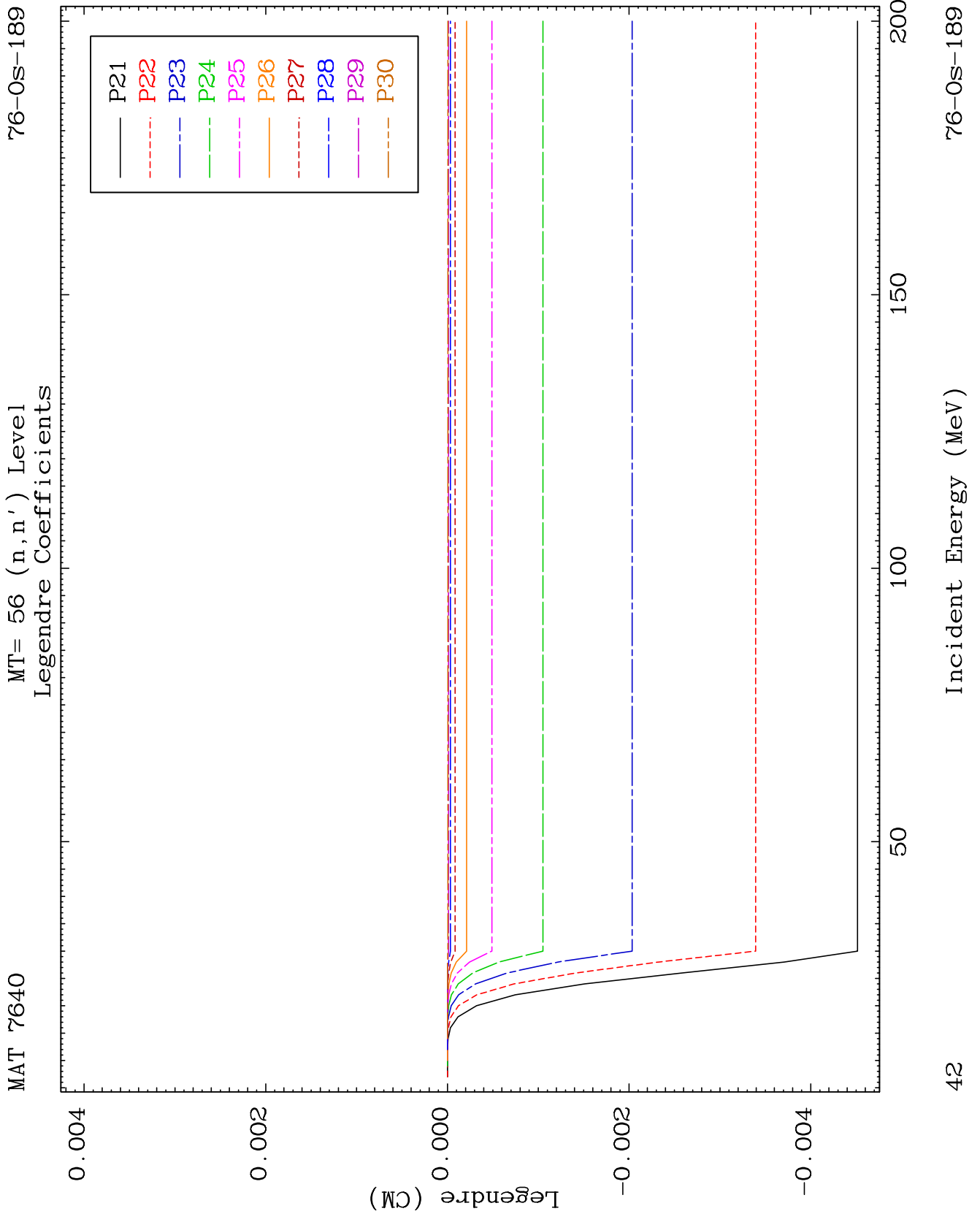
76-0s-189

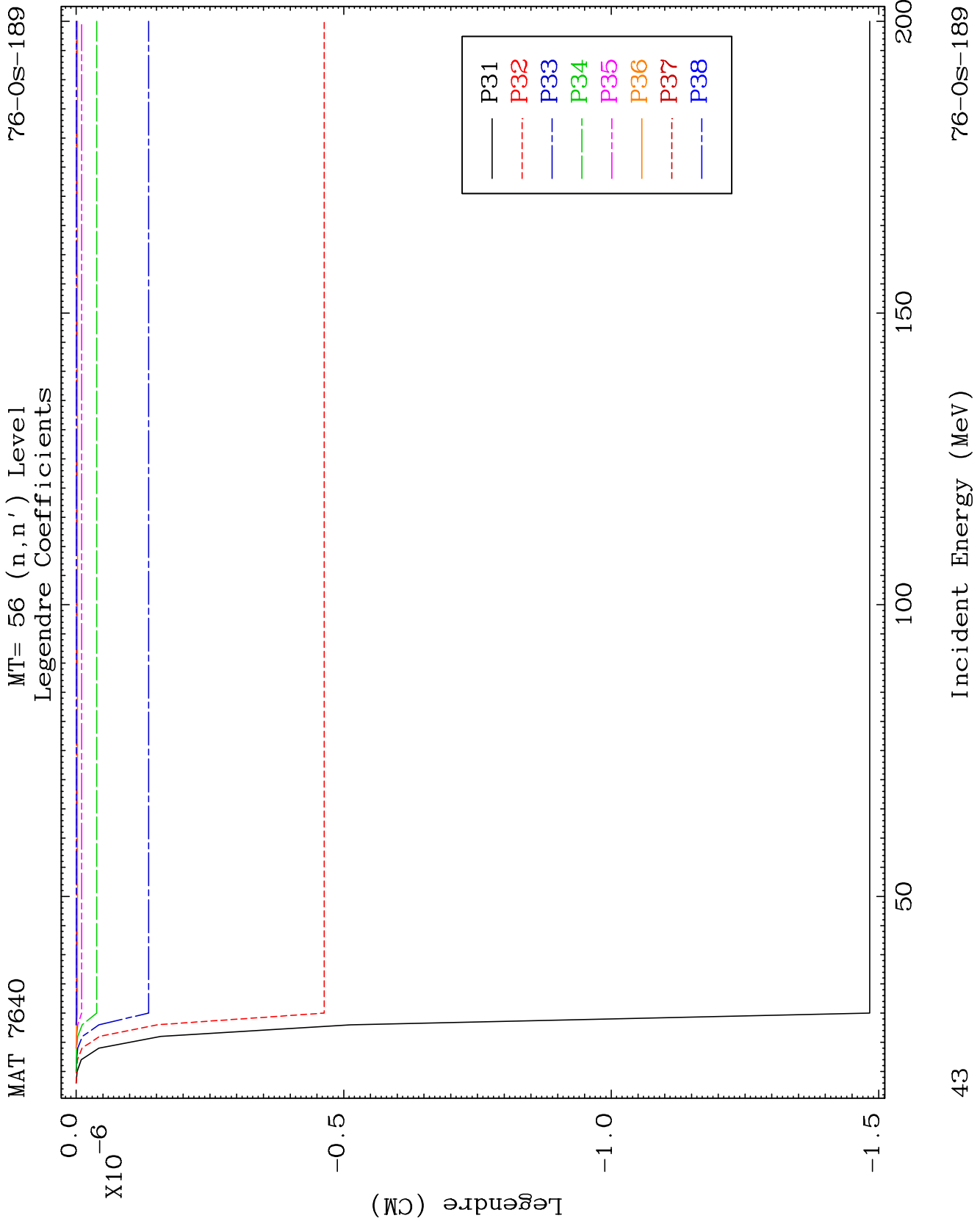


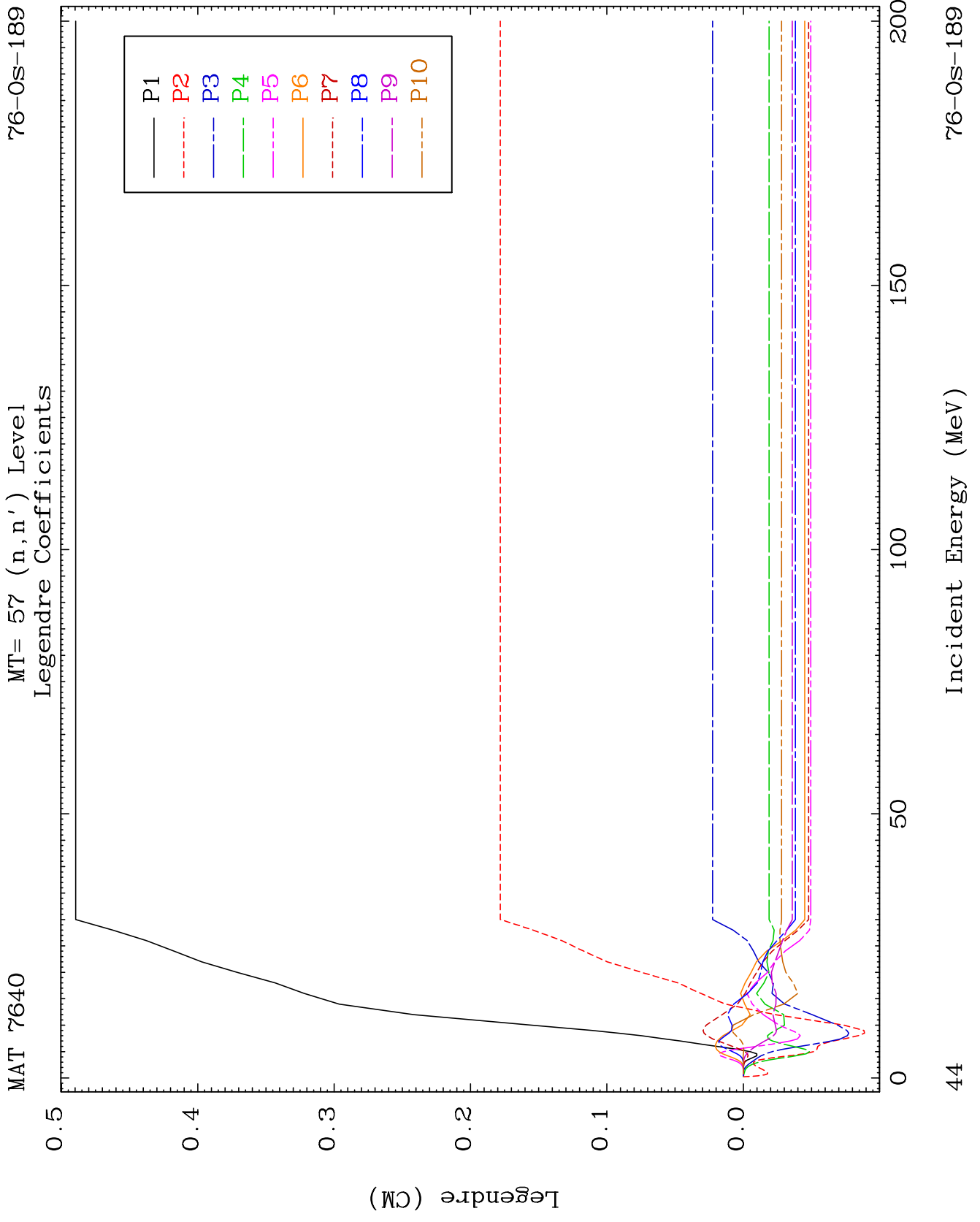
41

Incident Energy (MeV)

76-0s-189



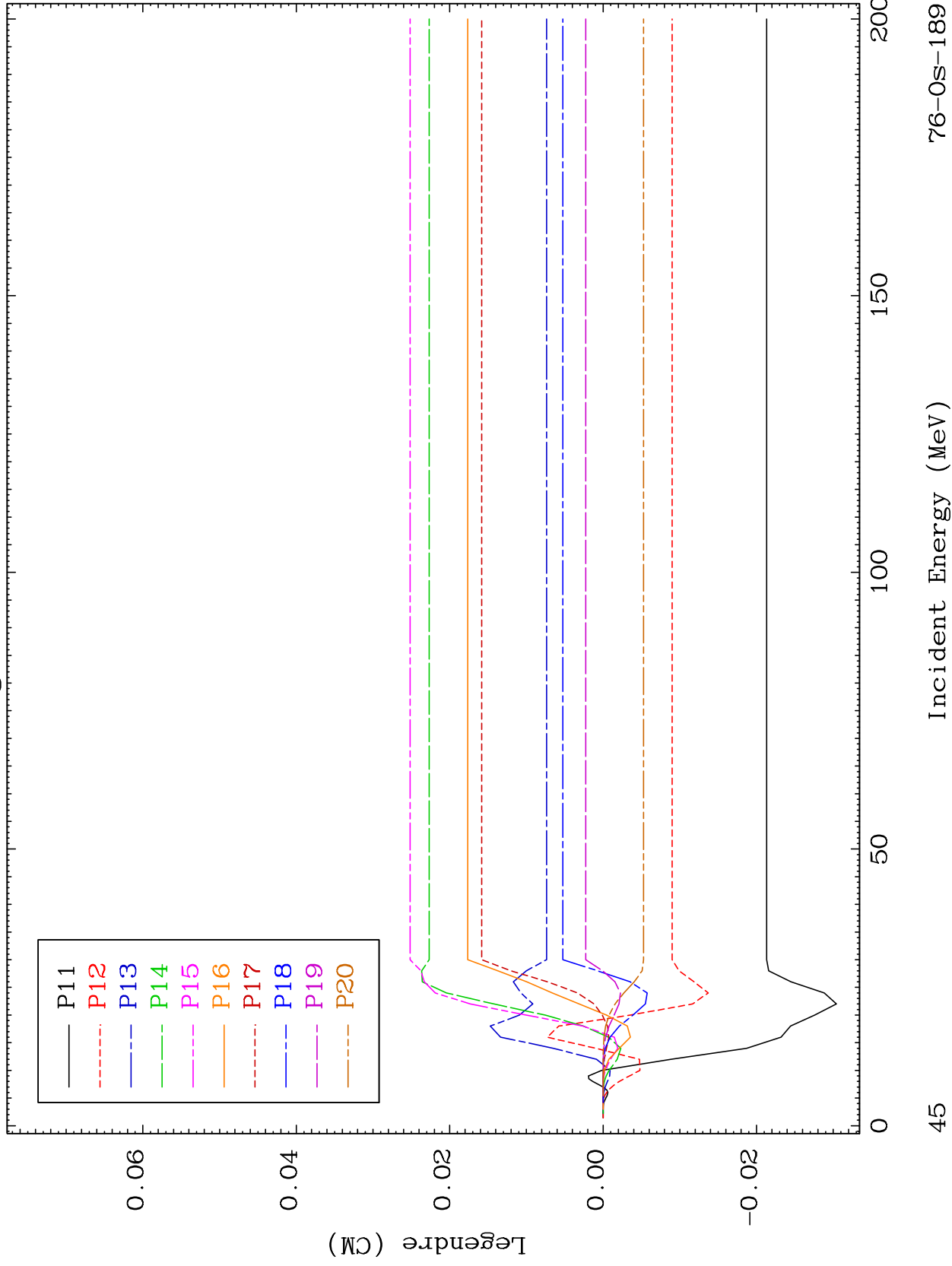




MAT 7640

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

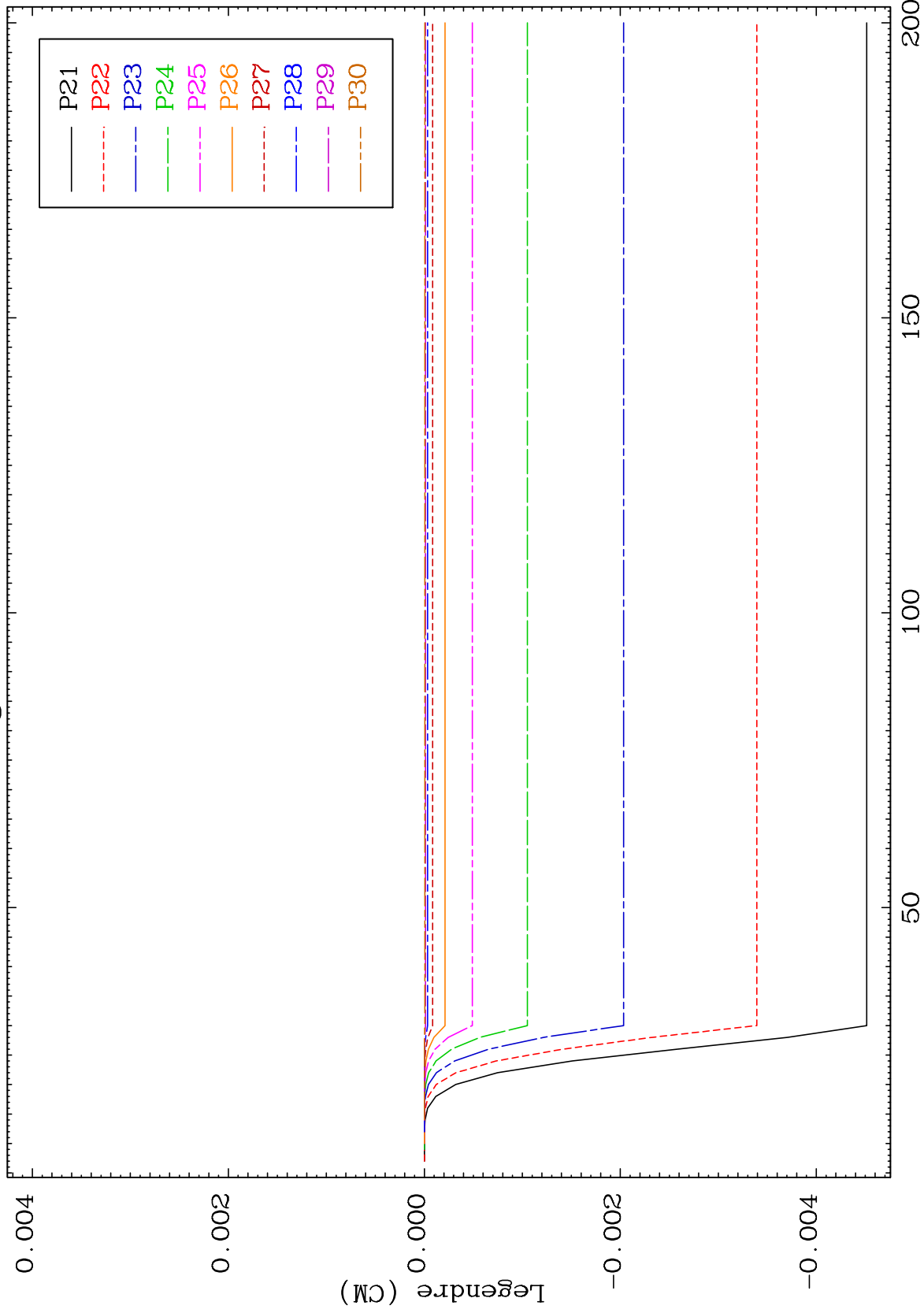
76-0s-189



MAT 7640

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

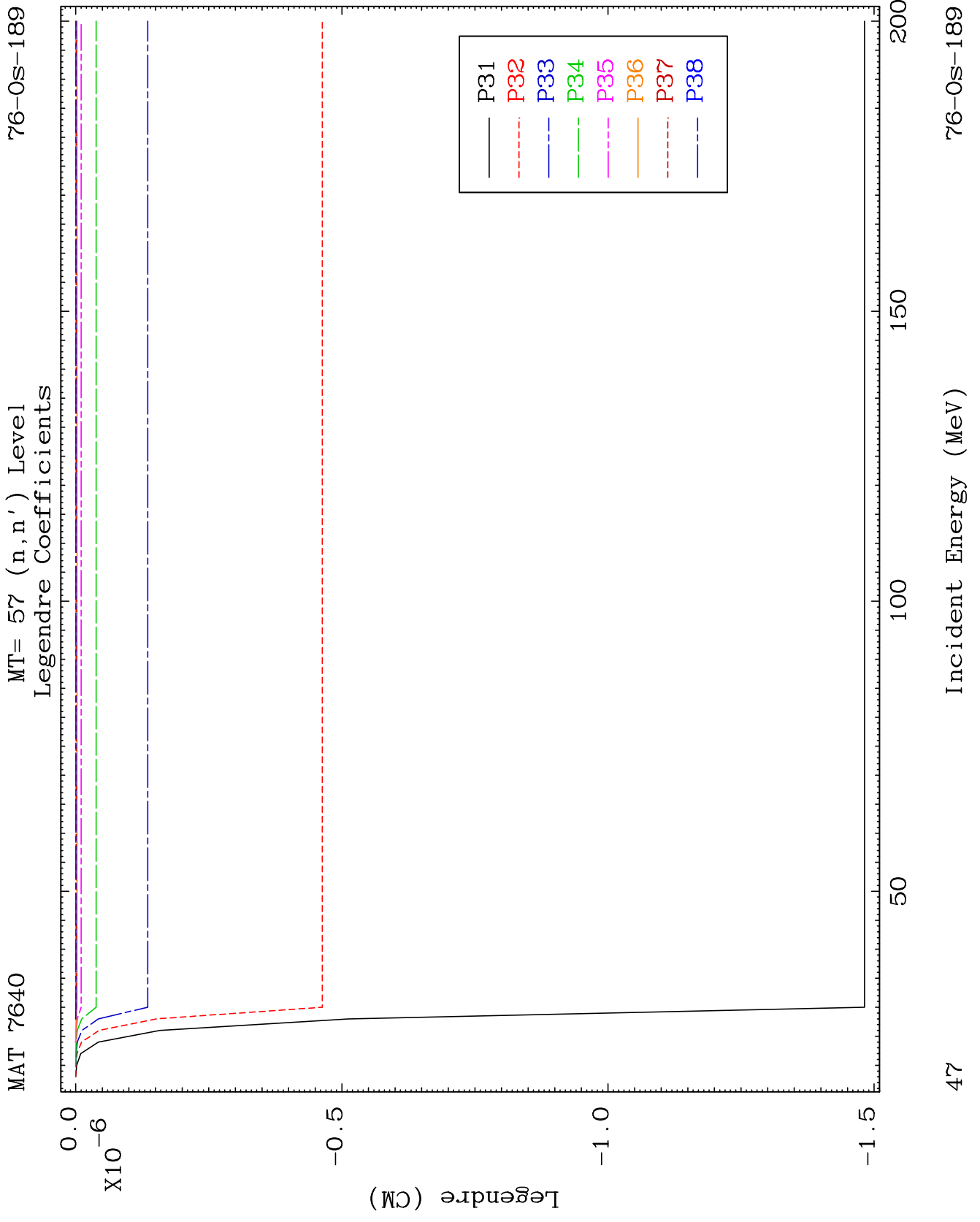
76-Os-189



46

Incident Energy (MeV)

76-Os-189



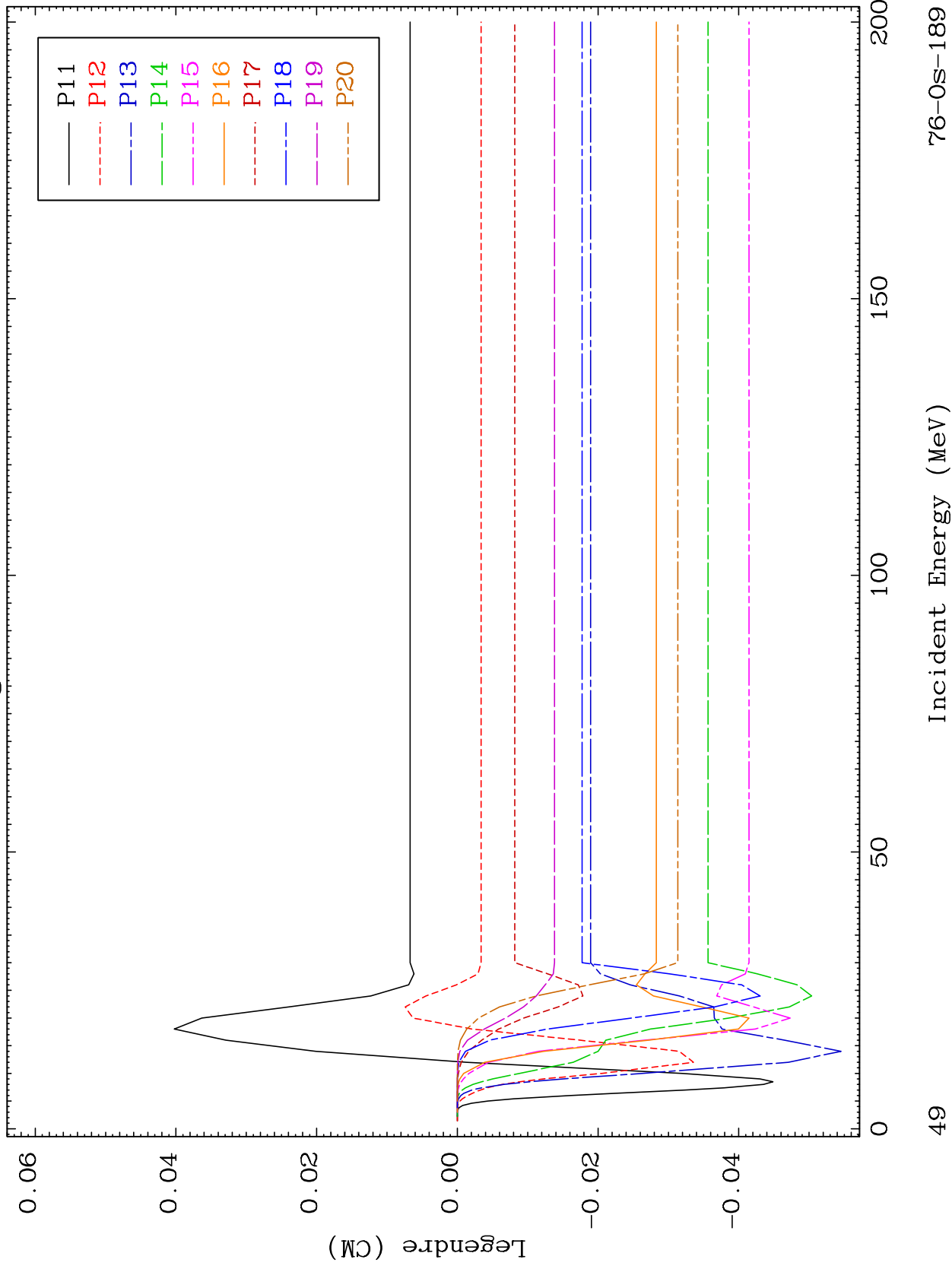




MAT 7640

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

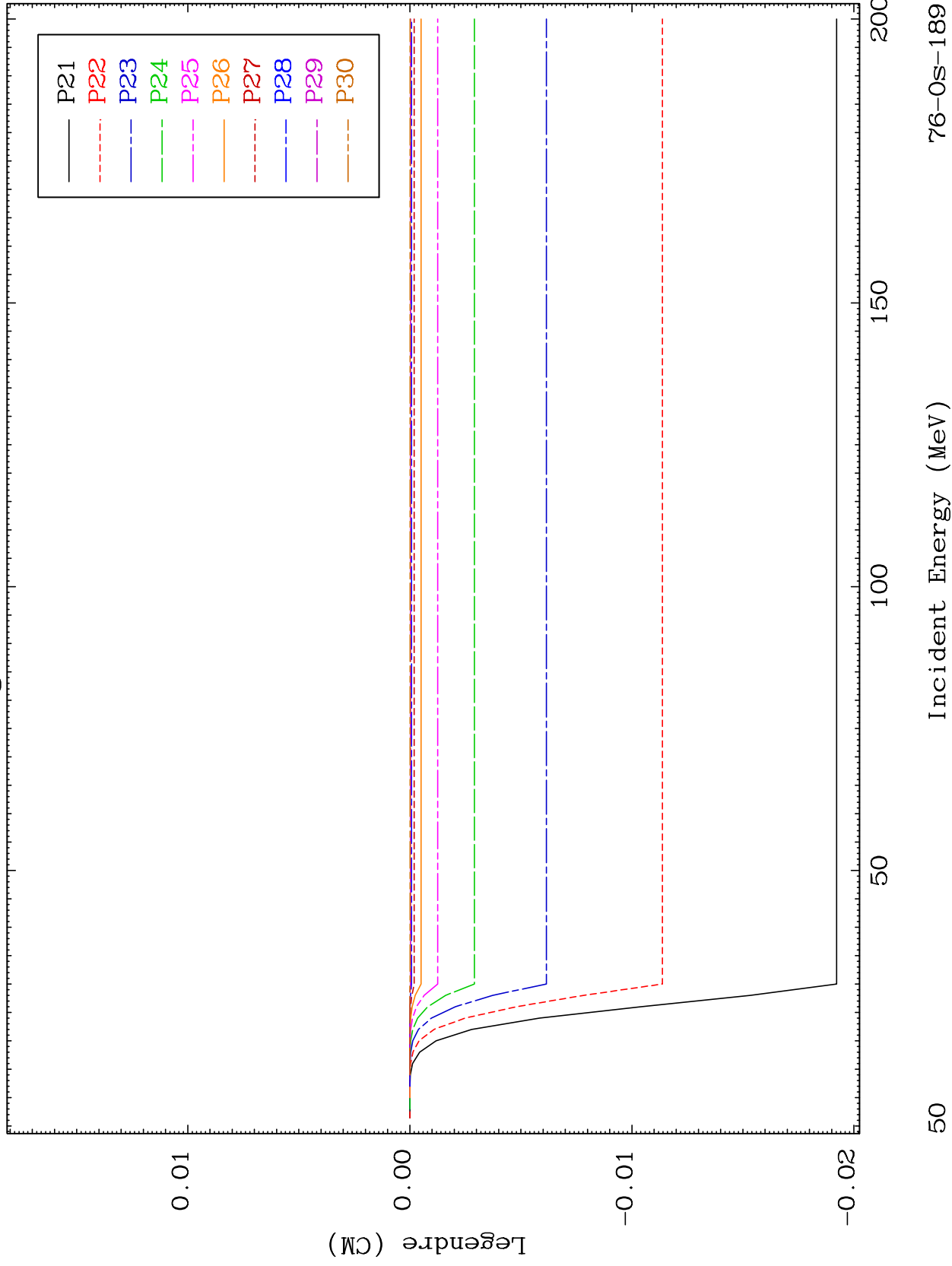
76-Os-189



MAT 7640

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

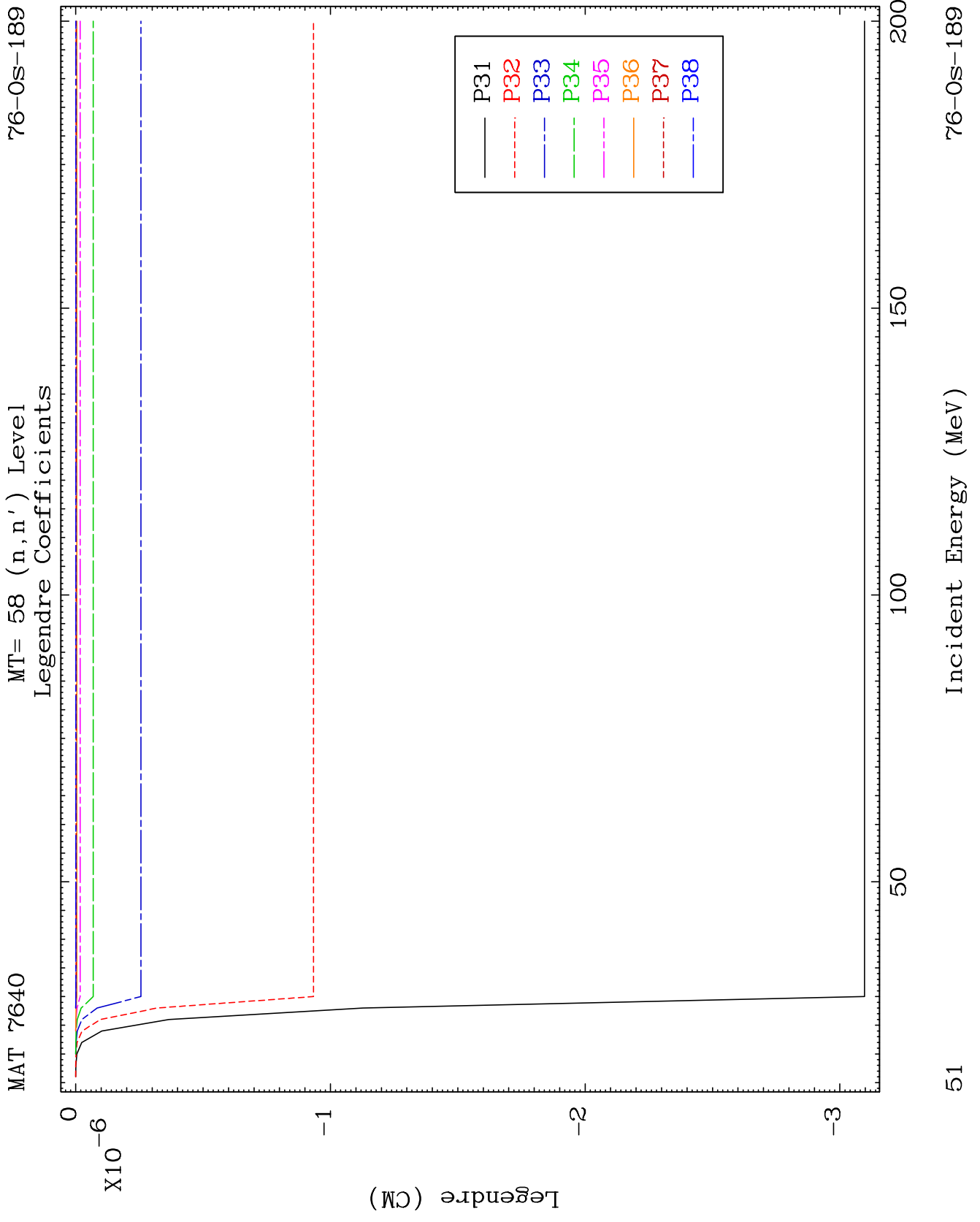
76-Os-189

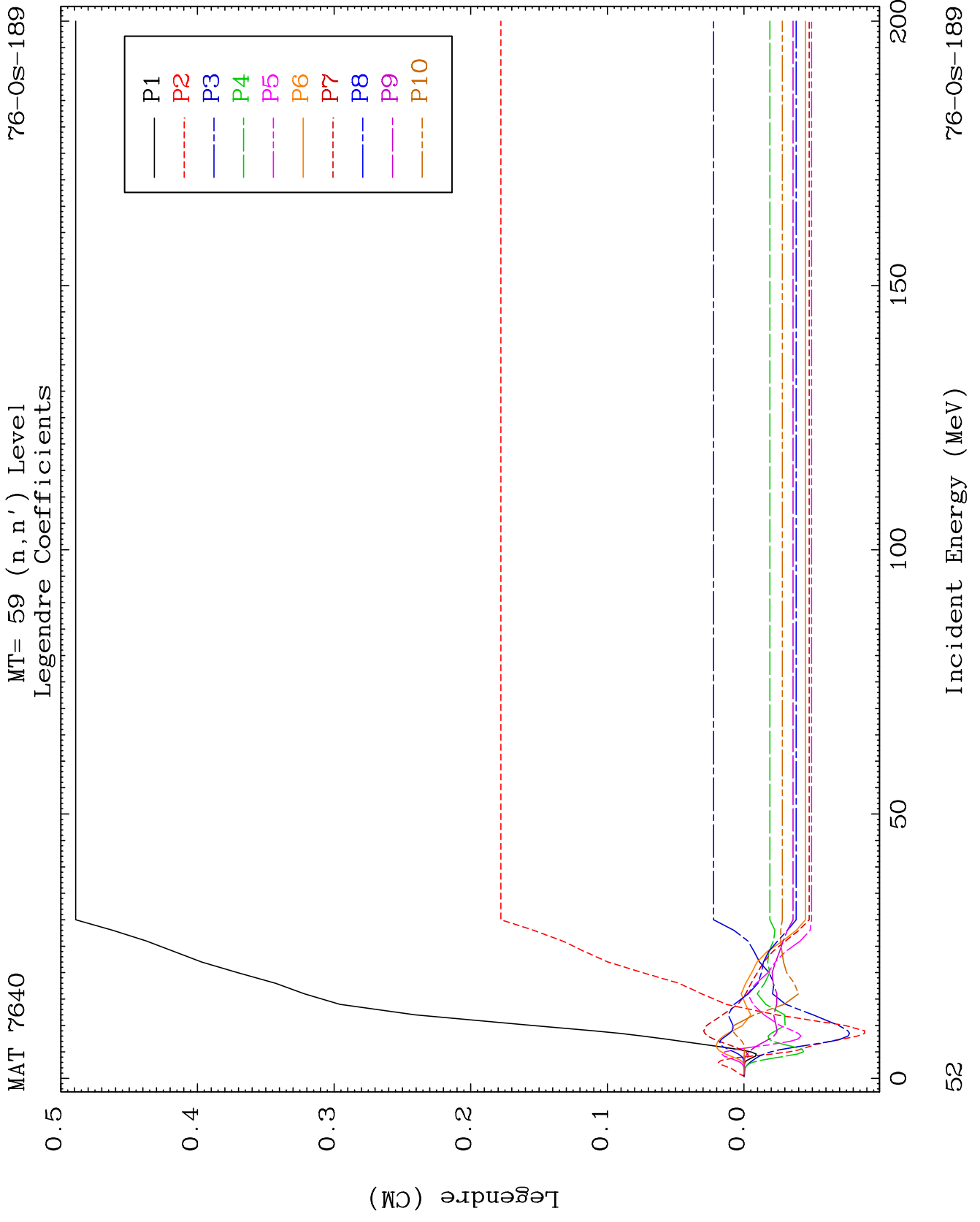


76-Os-189

Incident Energy (MeV)

50

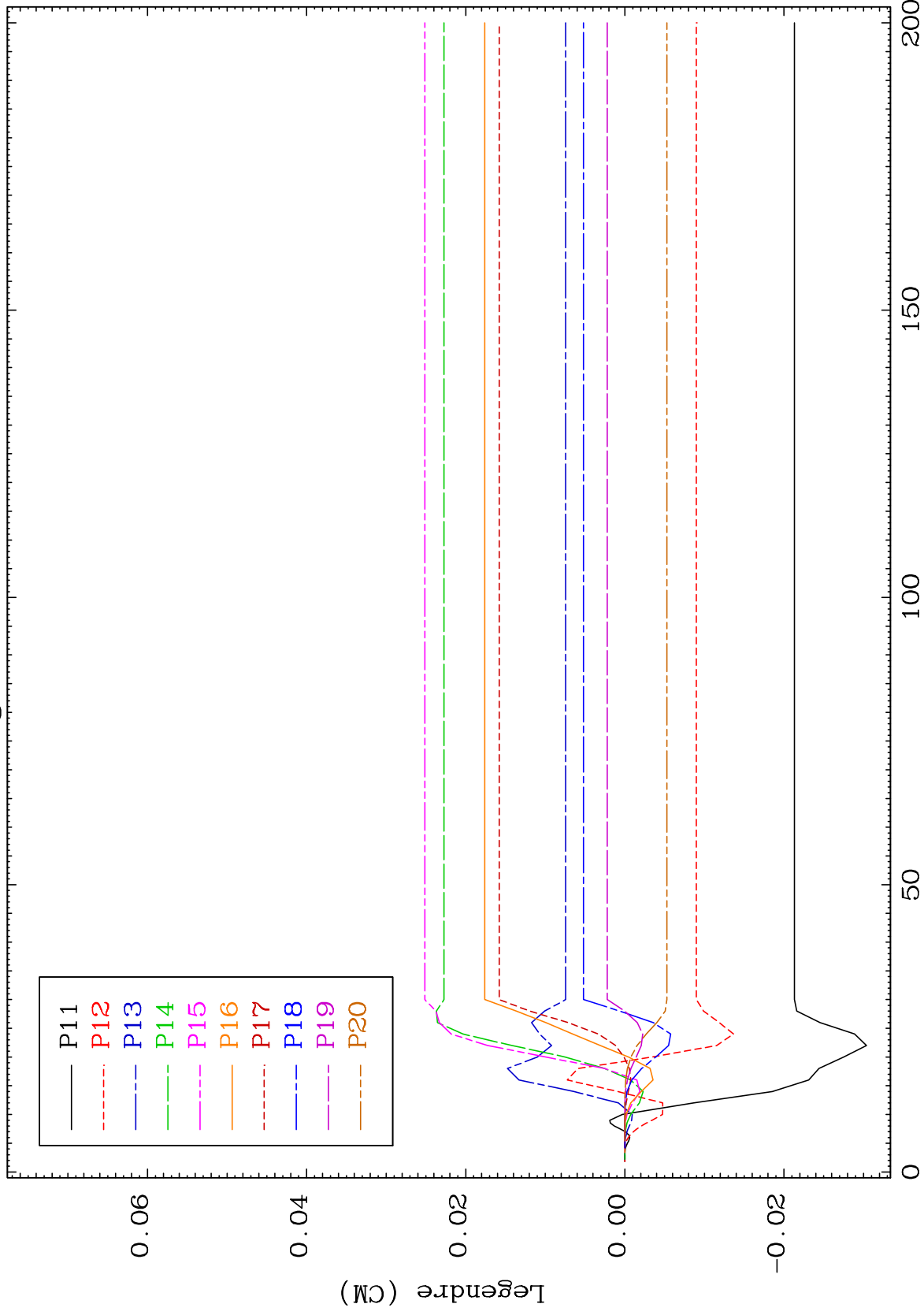




MAT 7640

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

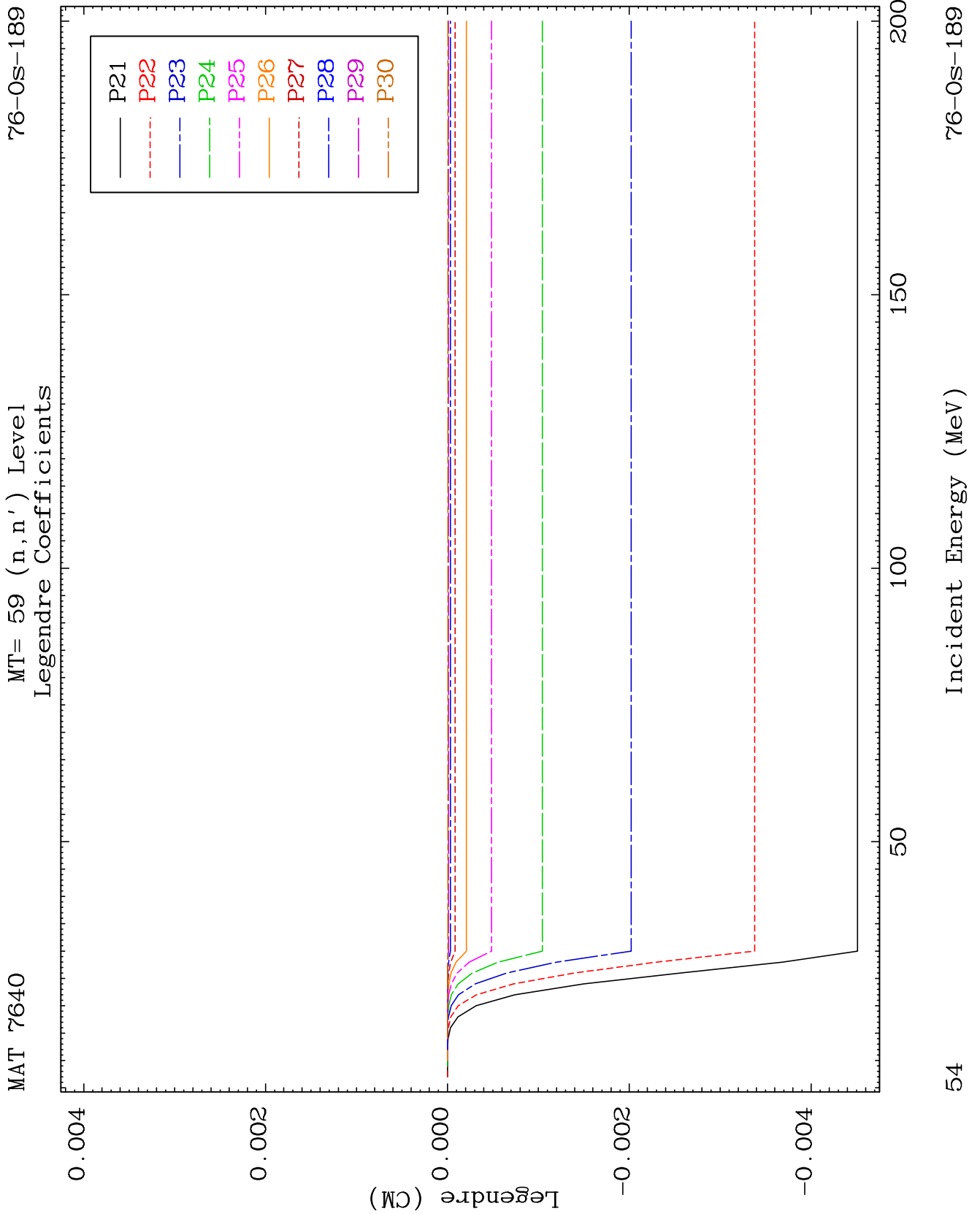
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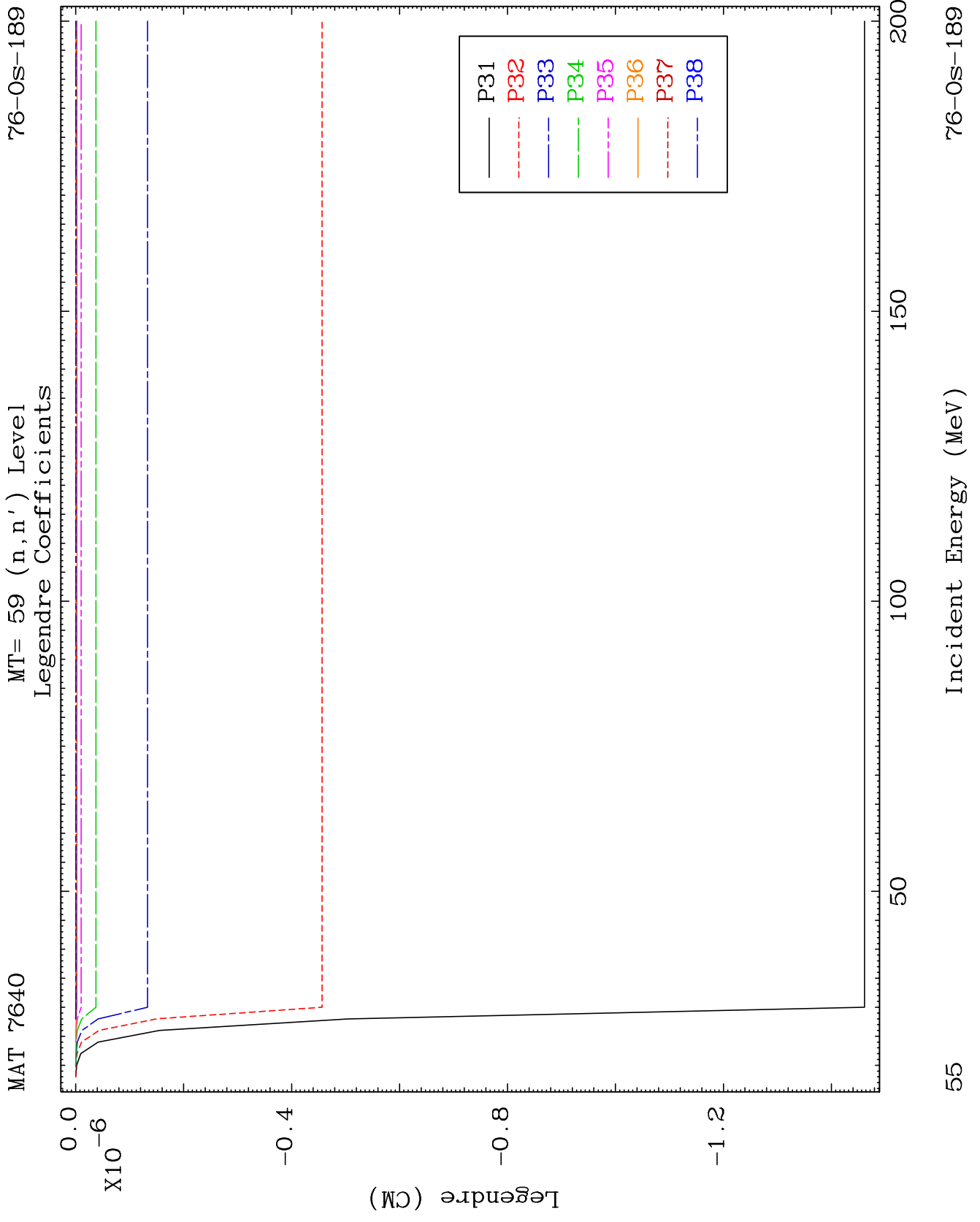


53

Incident Energy (MeV)

76-0s-189



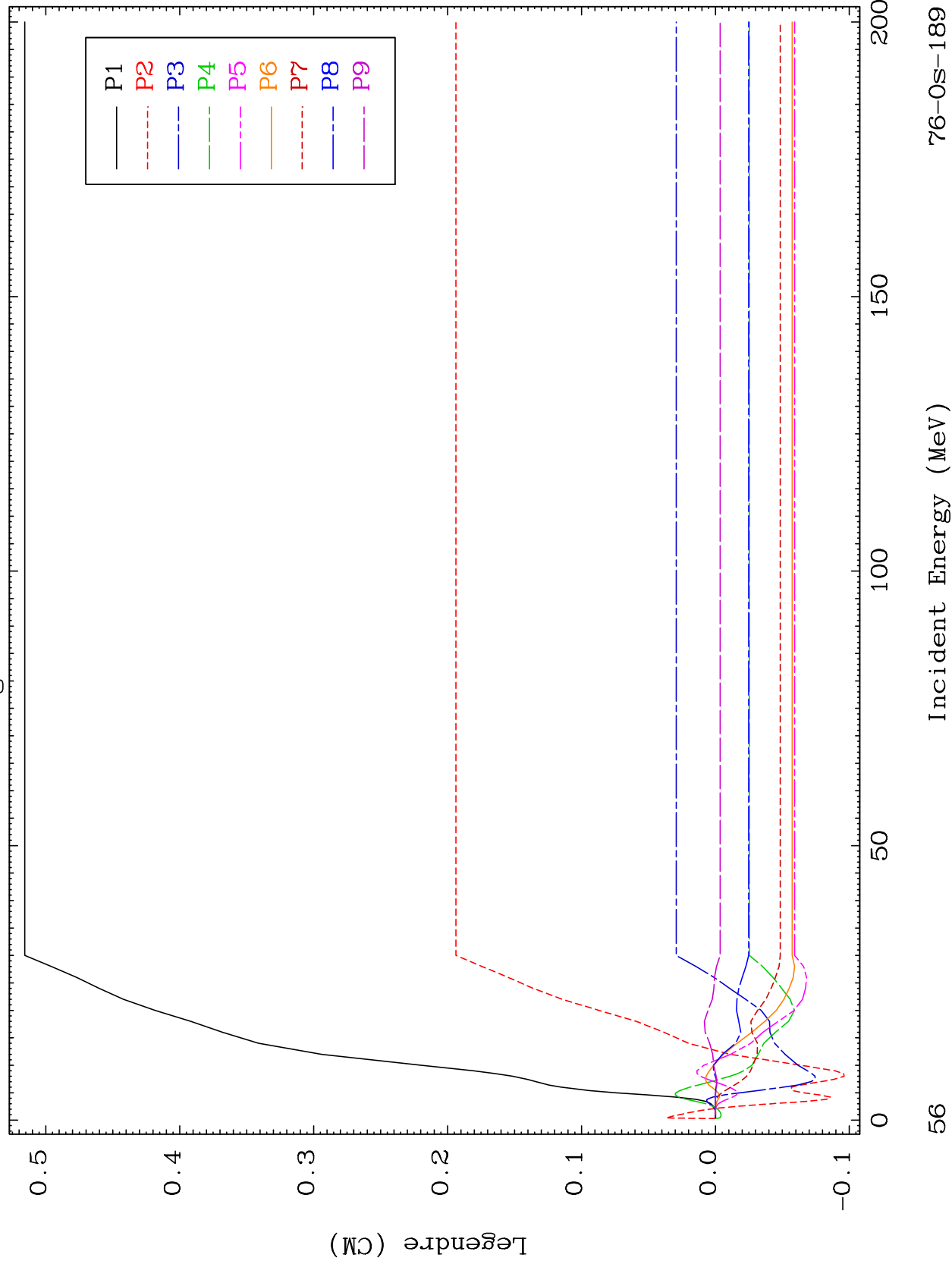




MAT 7640

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

76-Os-189

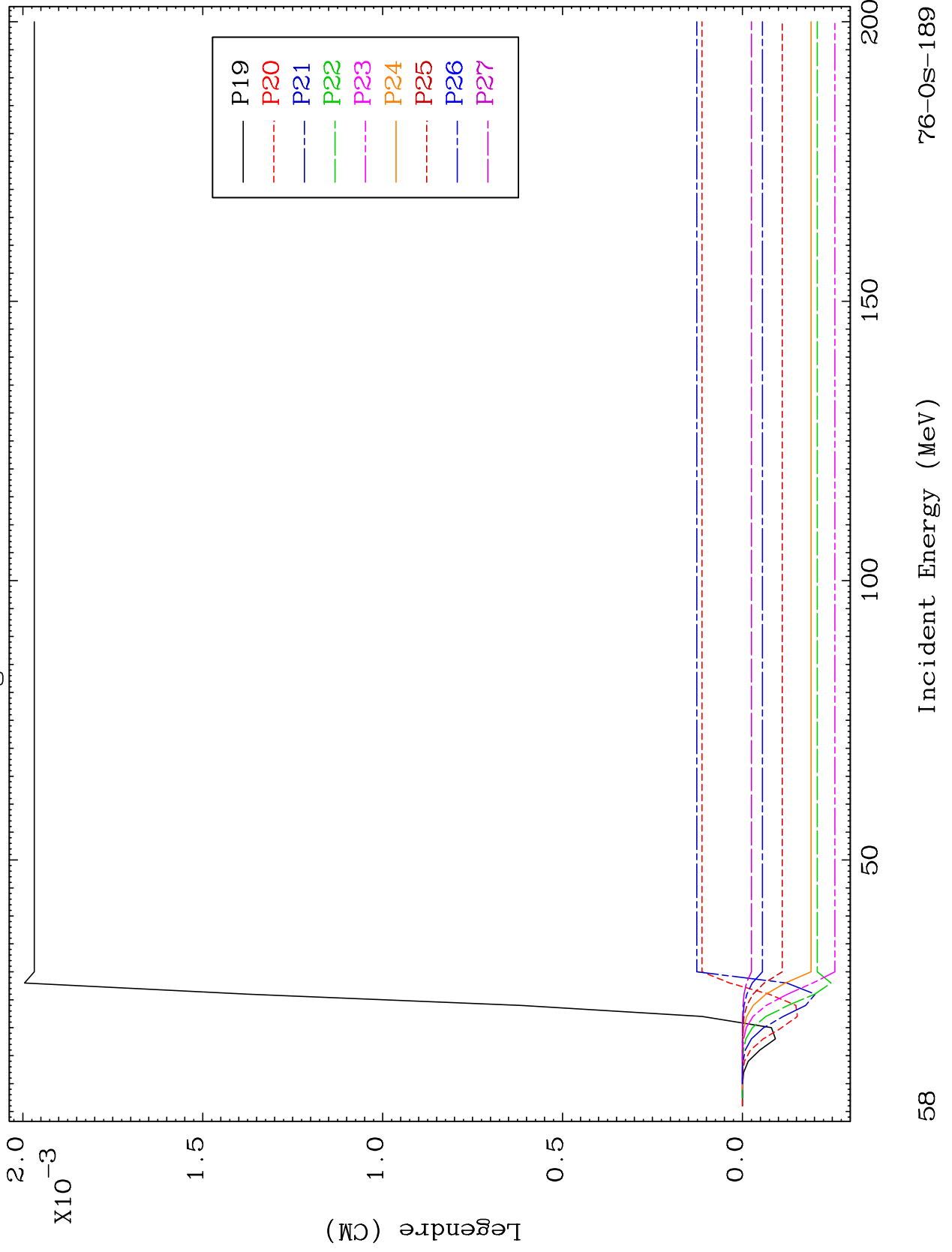




MAT 7640

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

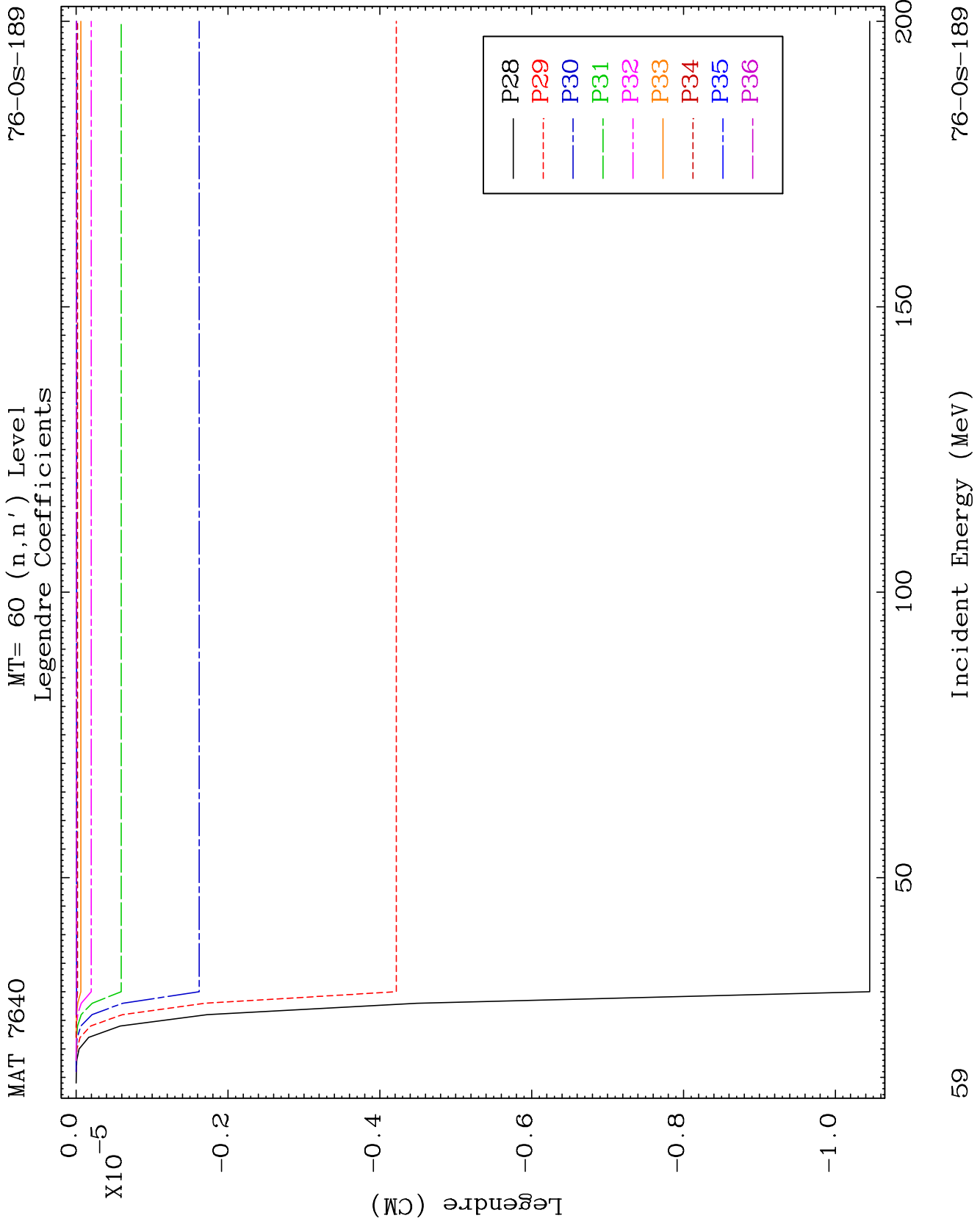
76-Os-189

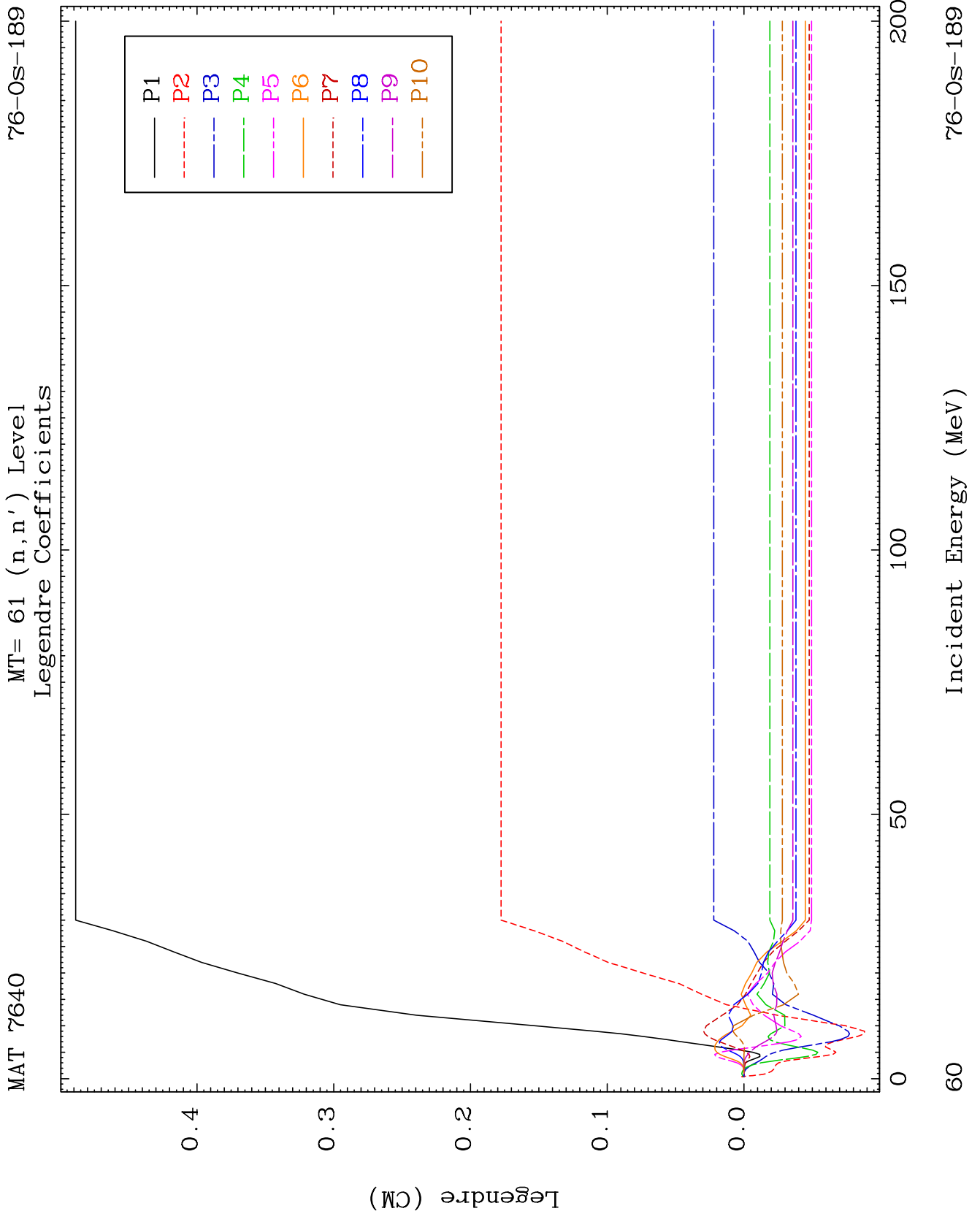


58

Incident Energy (MeV)

76-Os-189

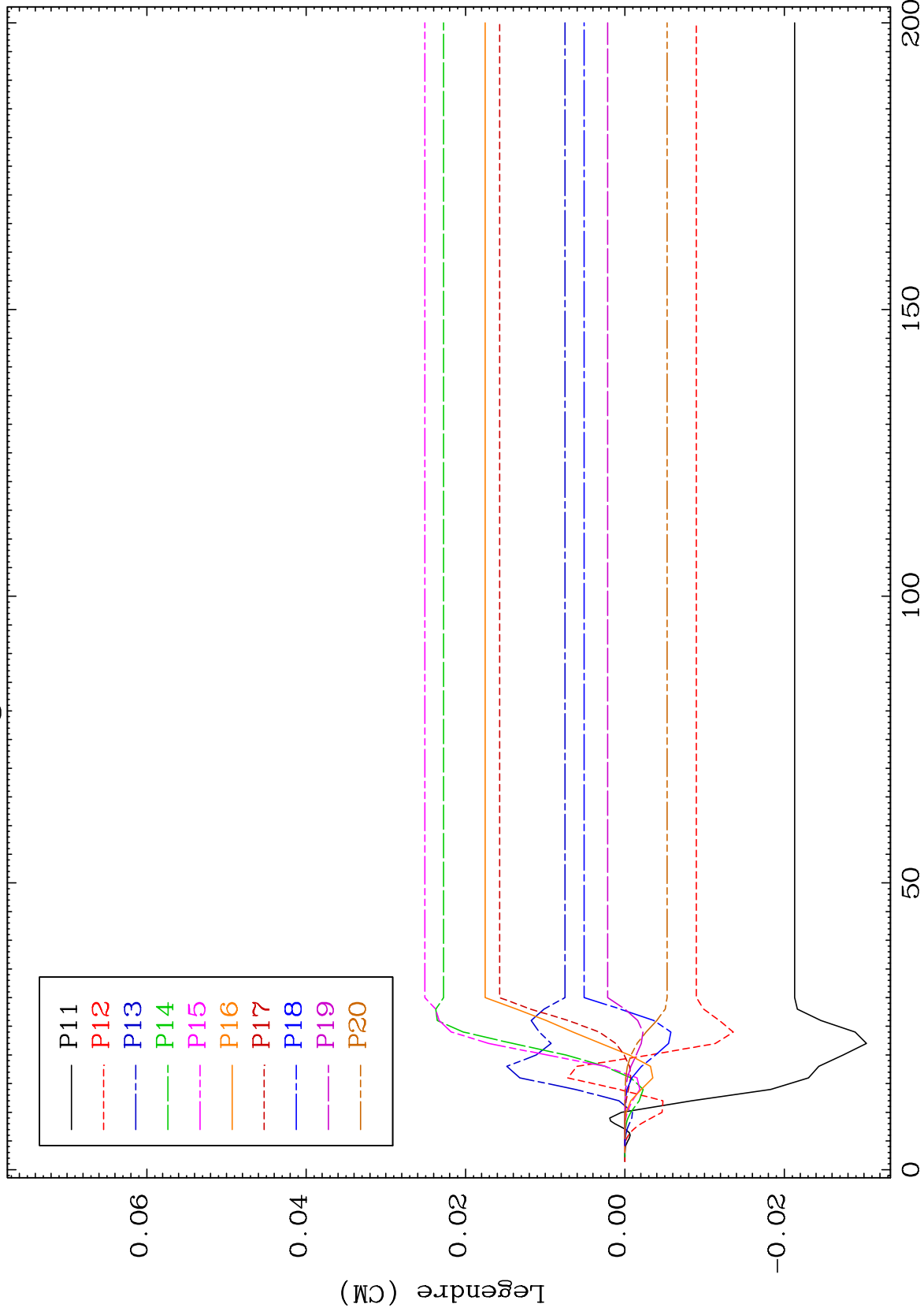




MAT 7640

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

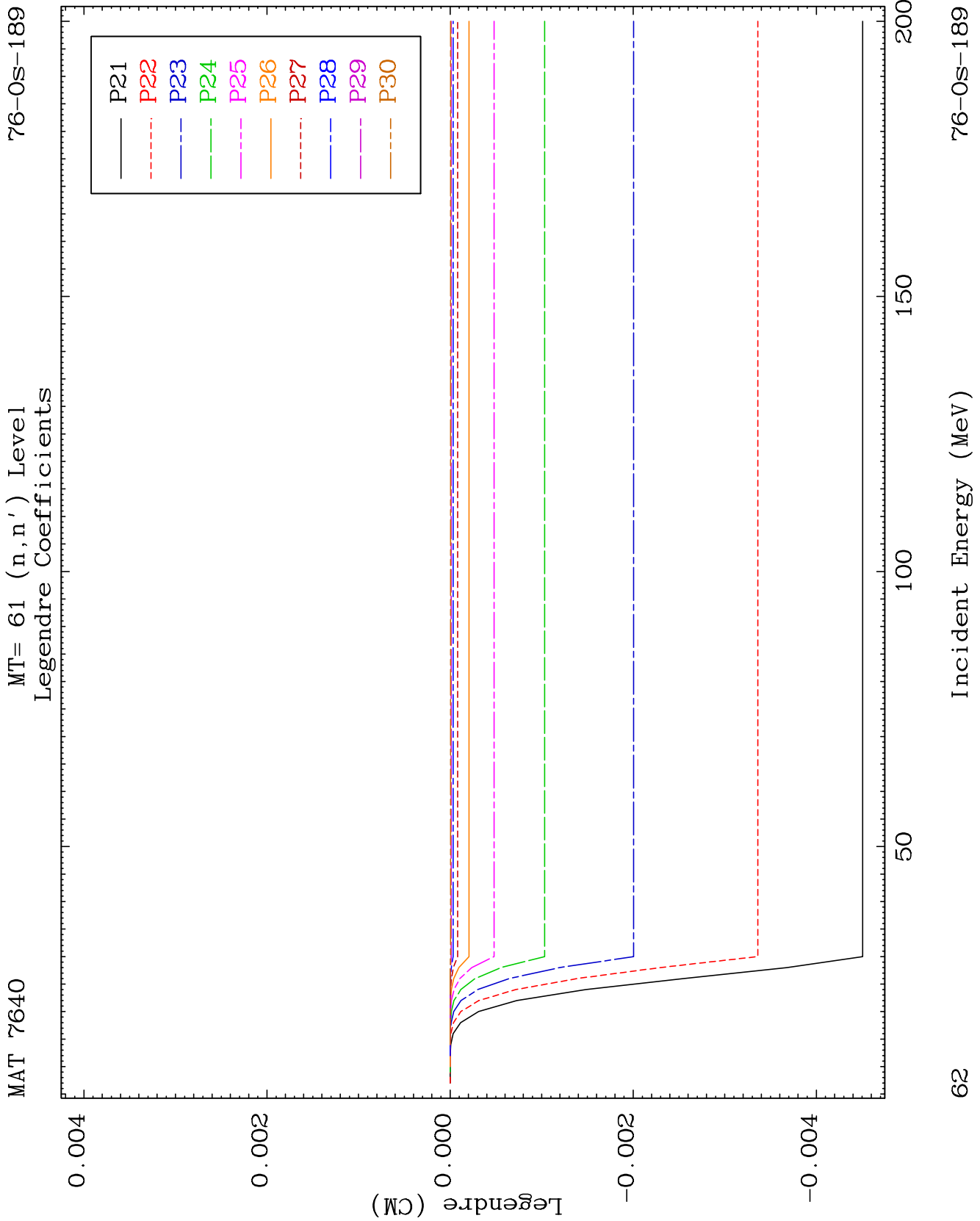
76-Os-189

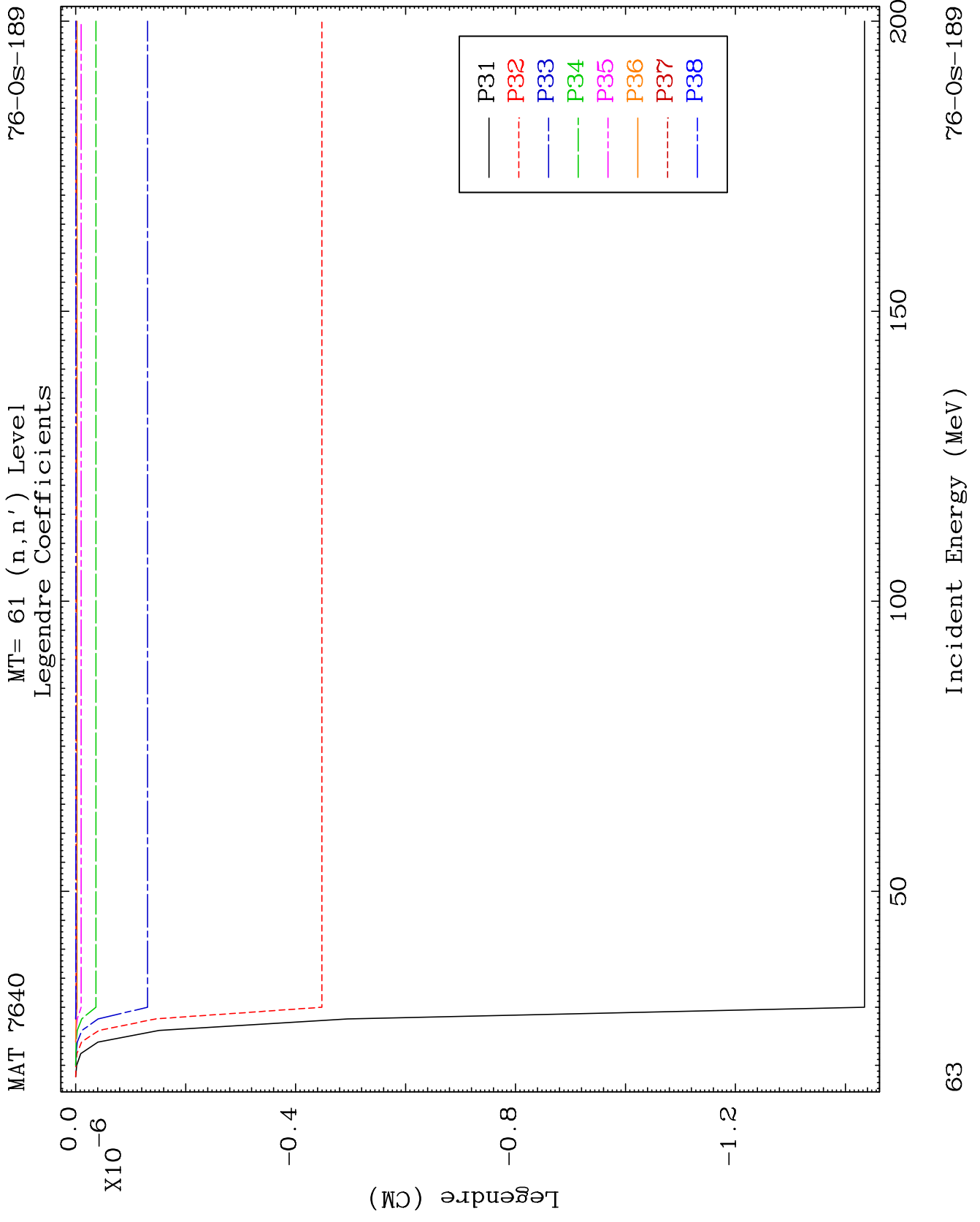


61

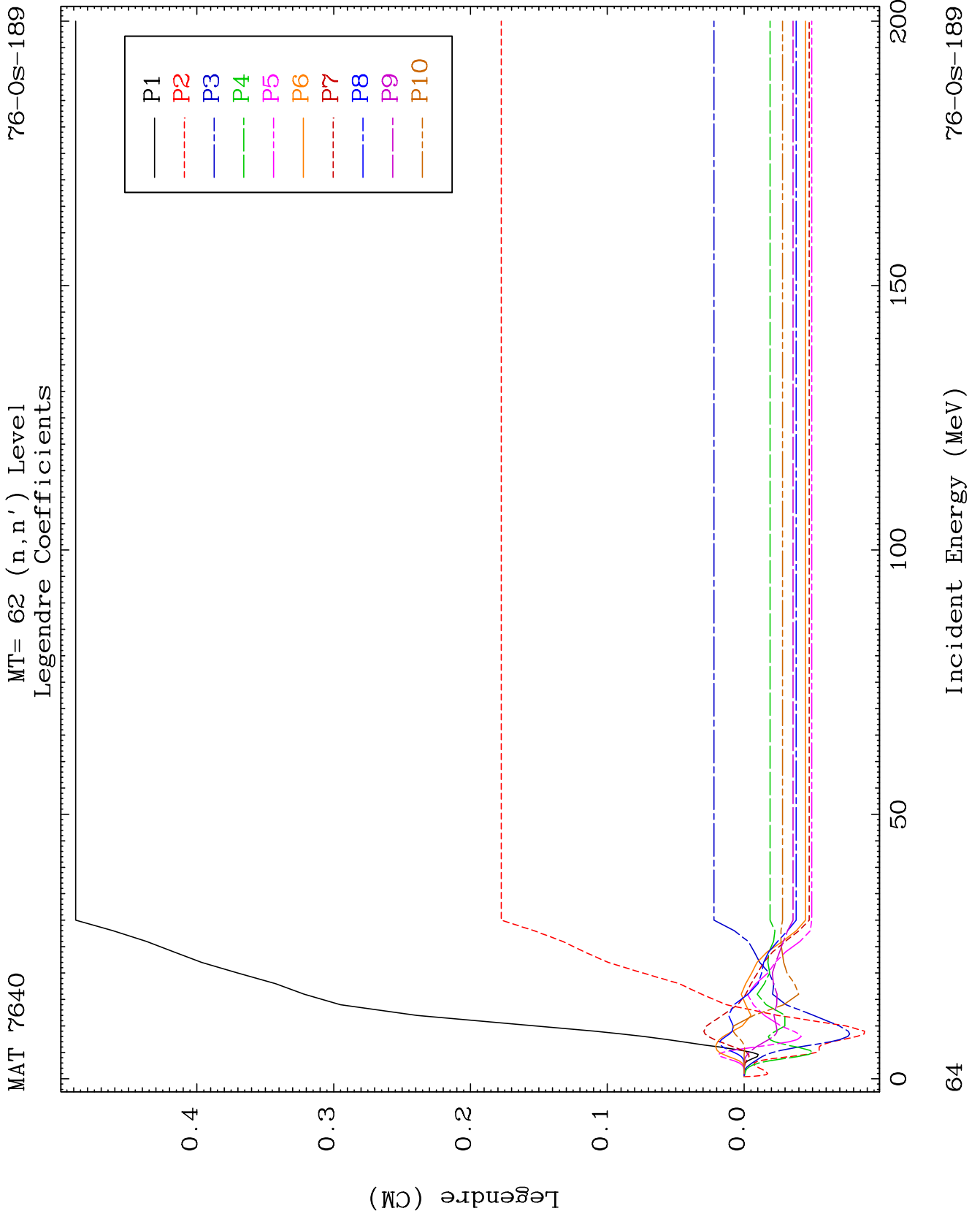
Incident Energy (MeV)

76-Os-189





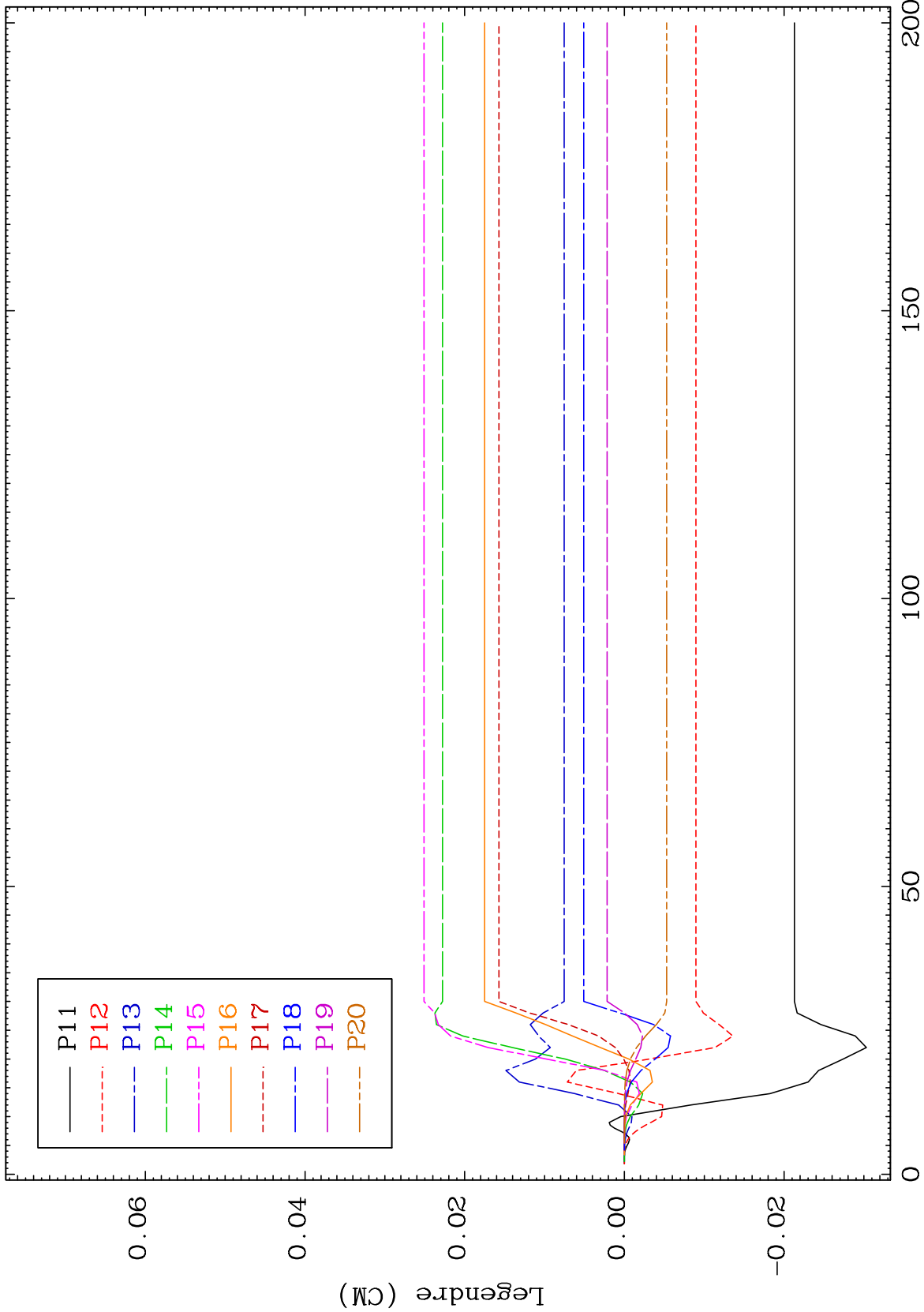




MAT 7640

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

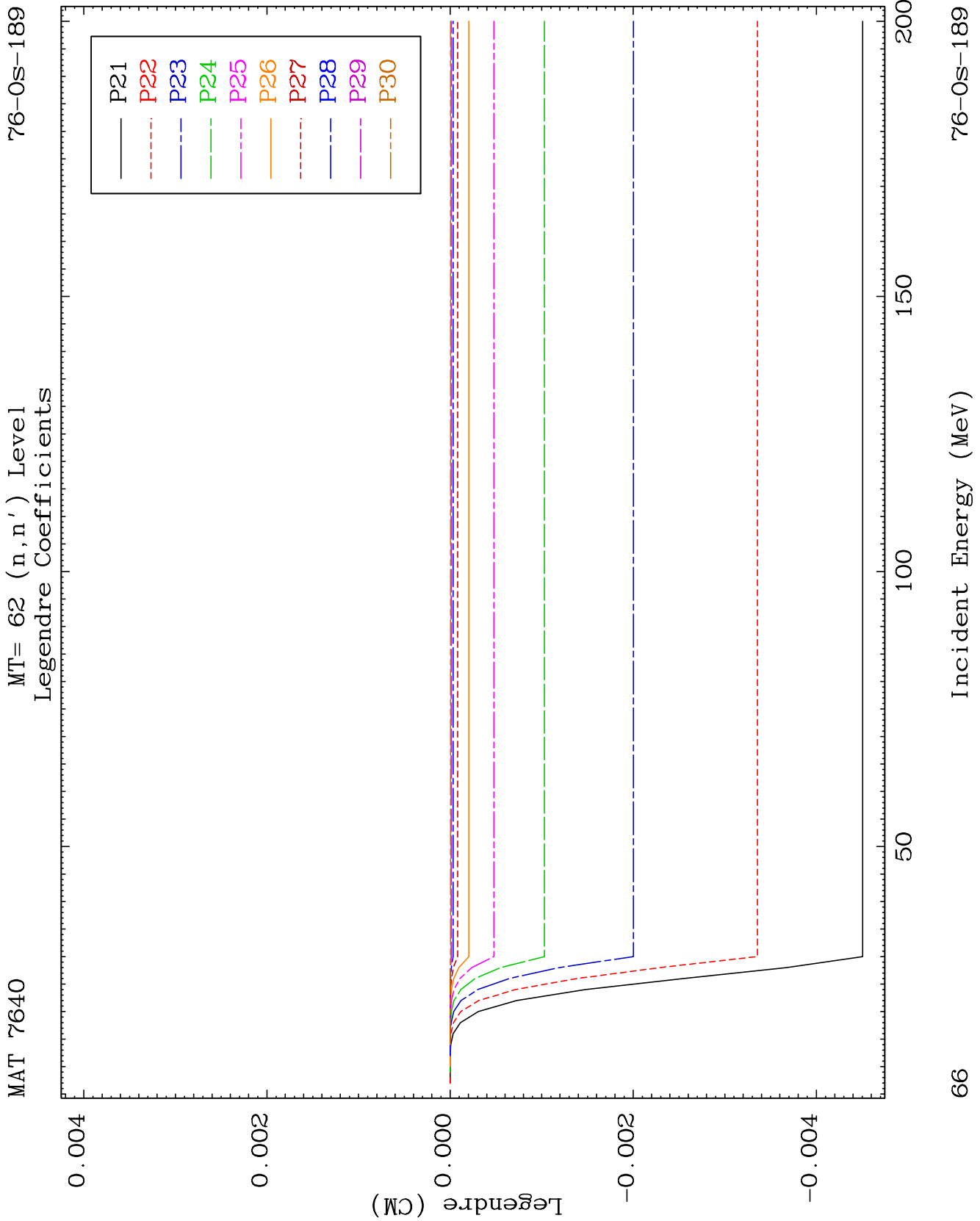
76-0s-189

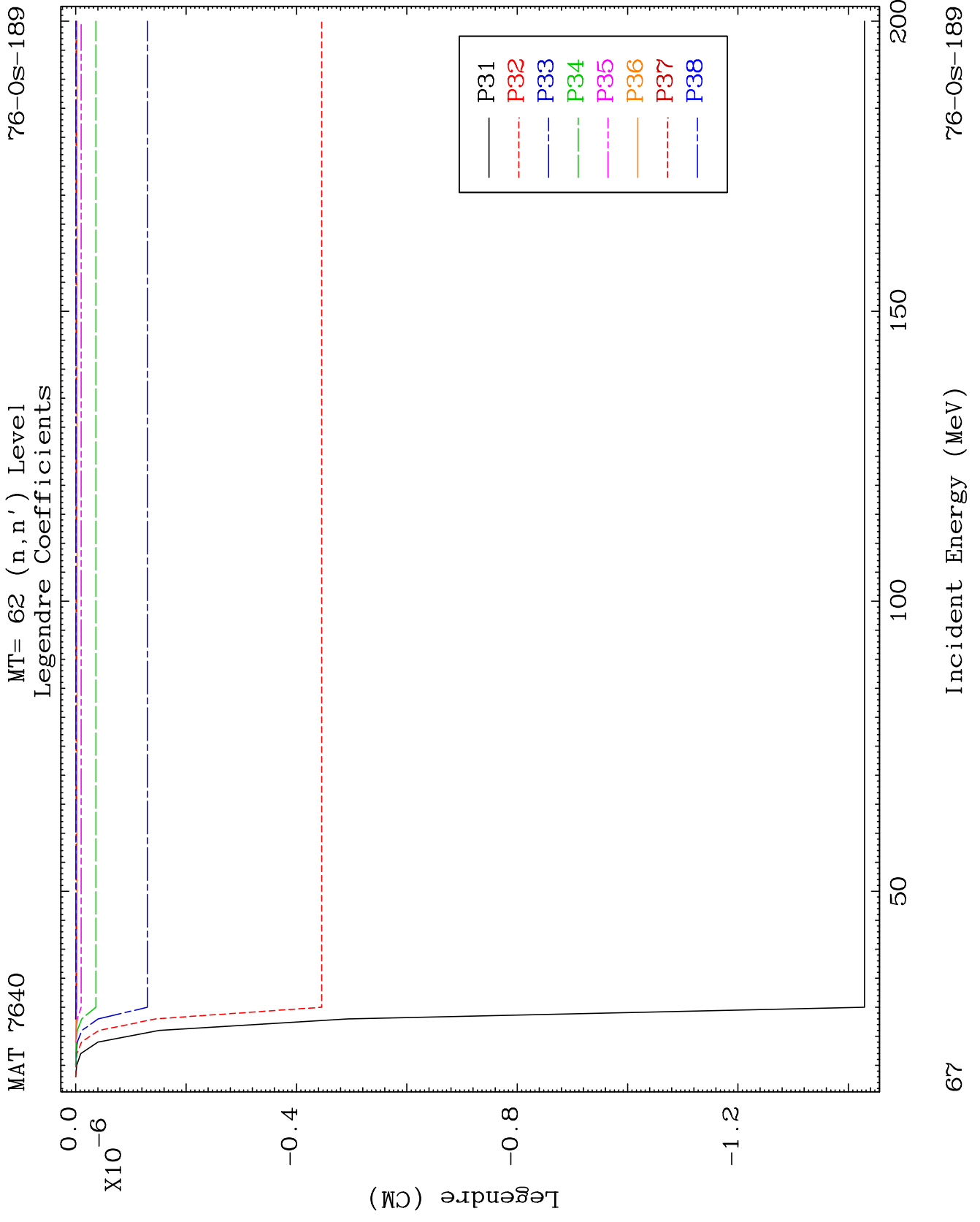


65

Incident Energy (MeV)

76-0s-189

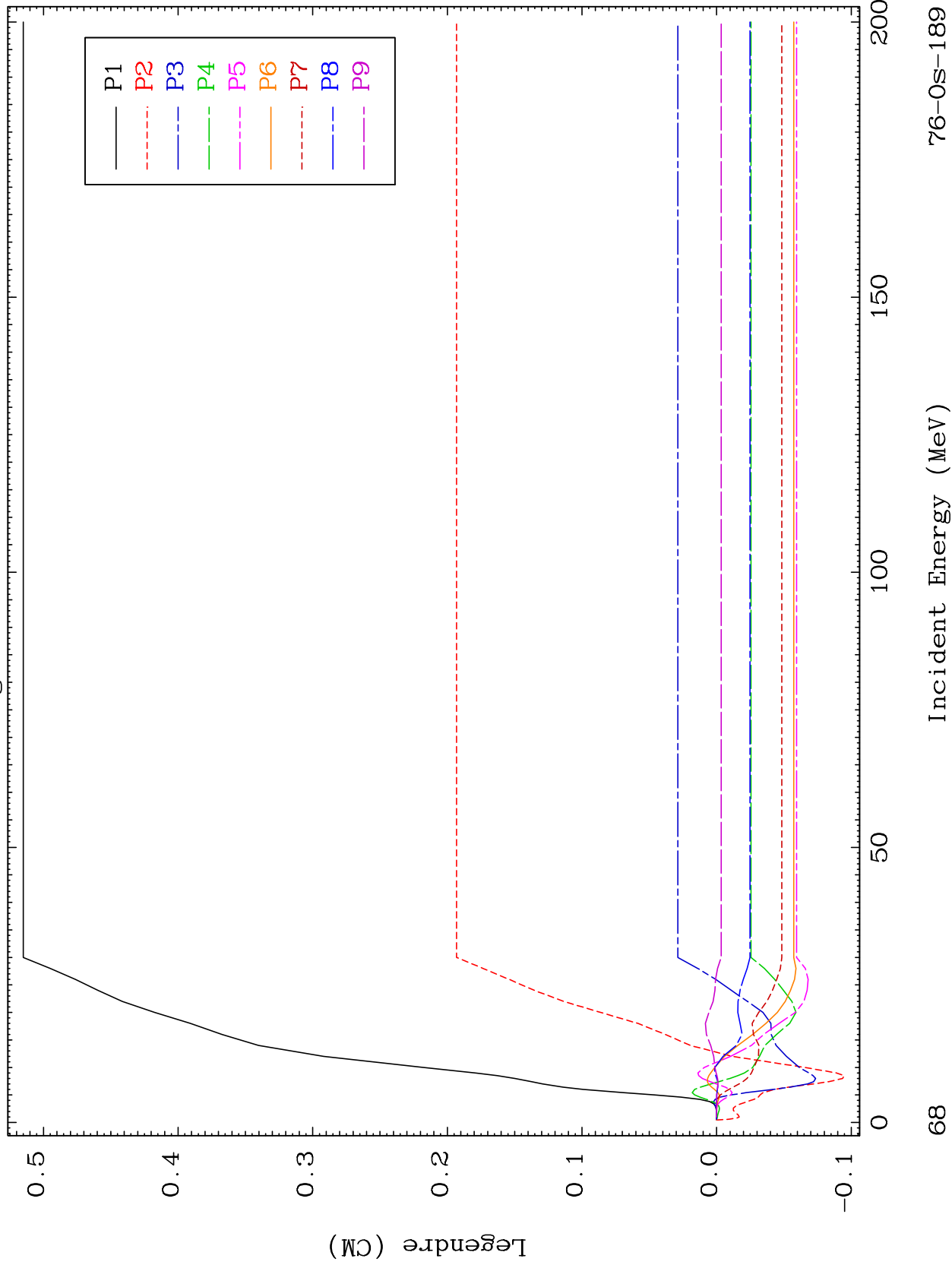




MAT 7640

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

76-Os-189



76-Os-189

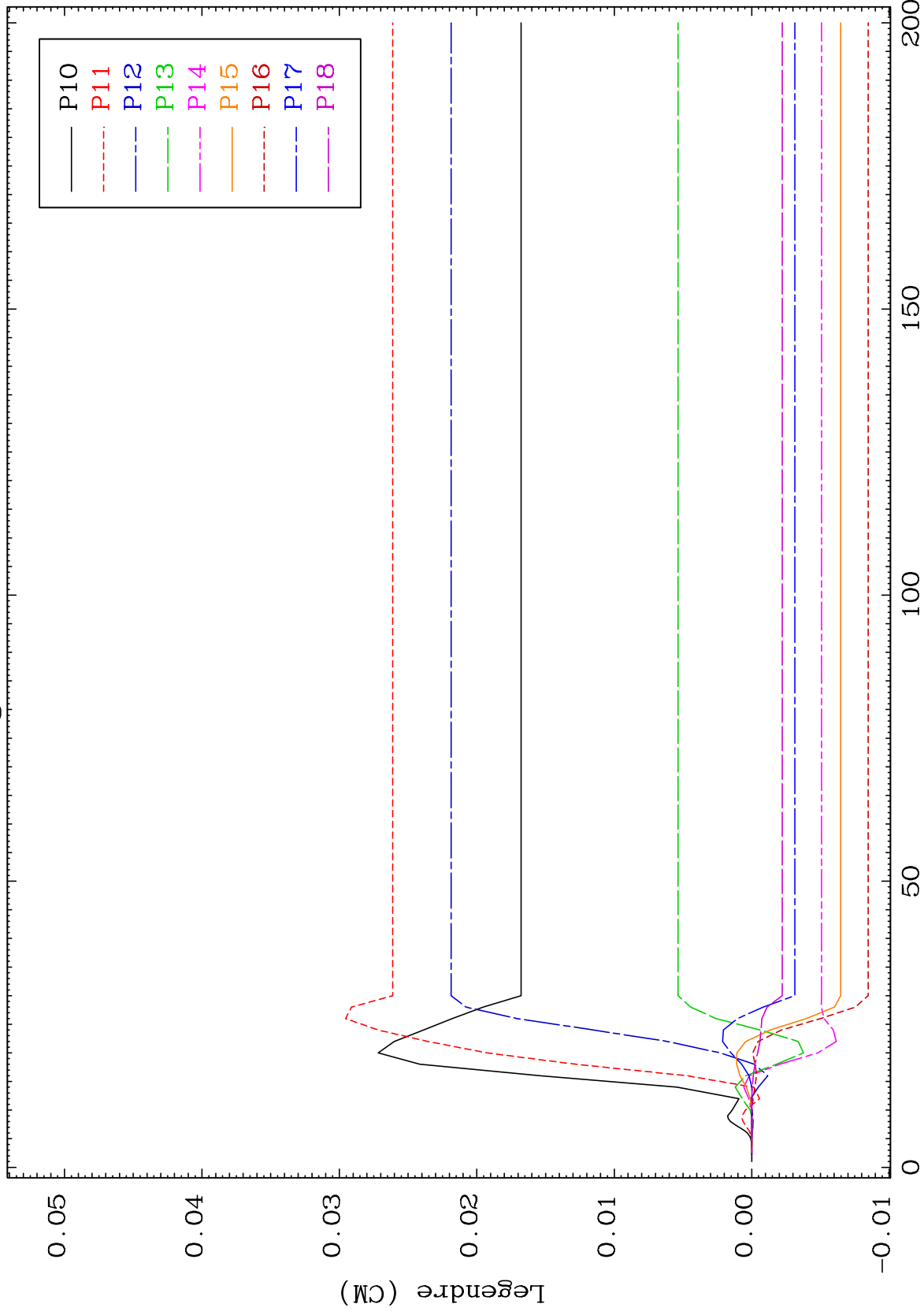
Incident Energy (MeV)

68

MAT 7640

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

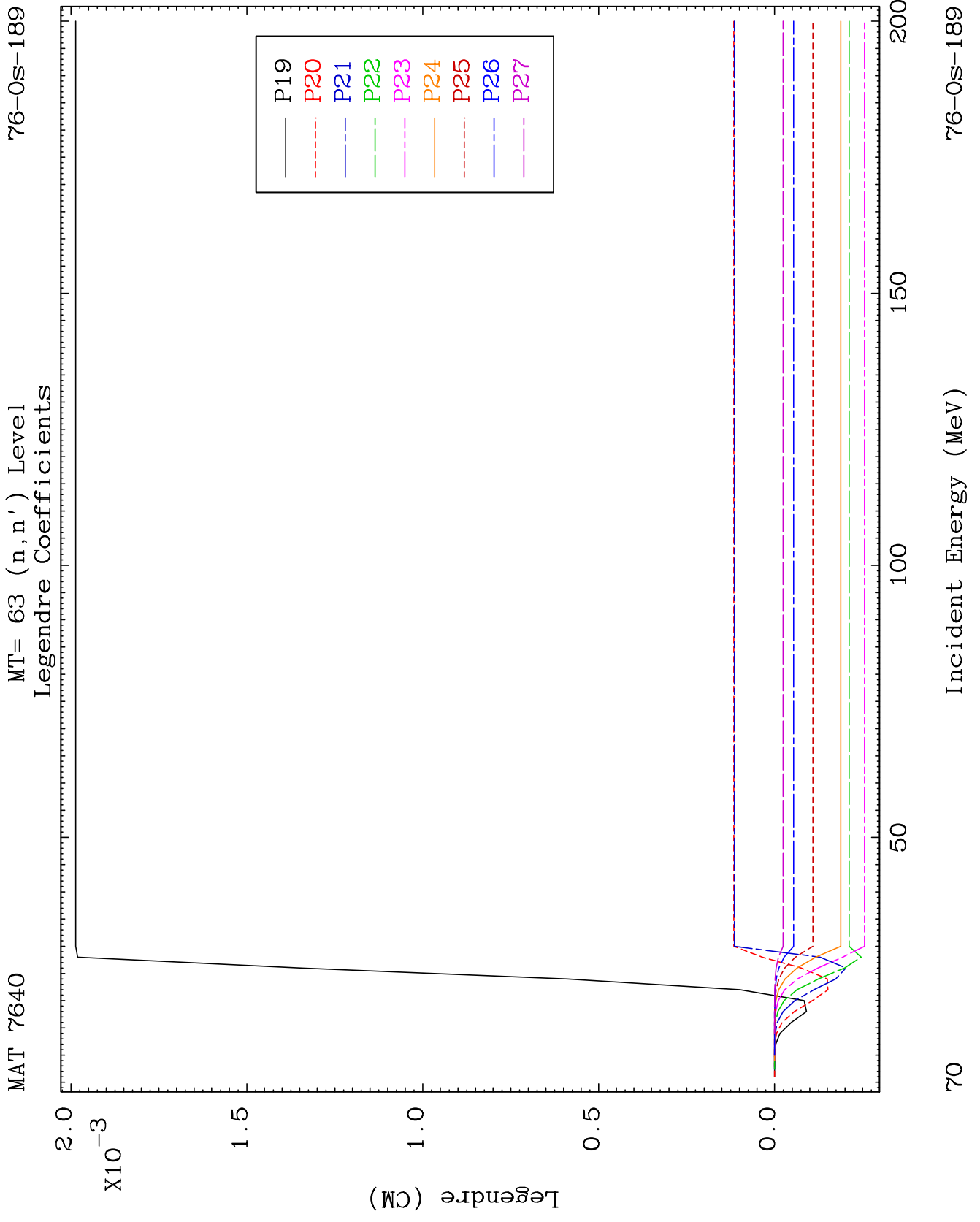
76-Os-189



69

Incident Energy (MeV)

76-Os-189



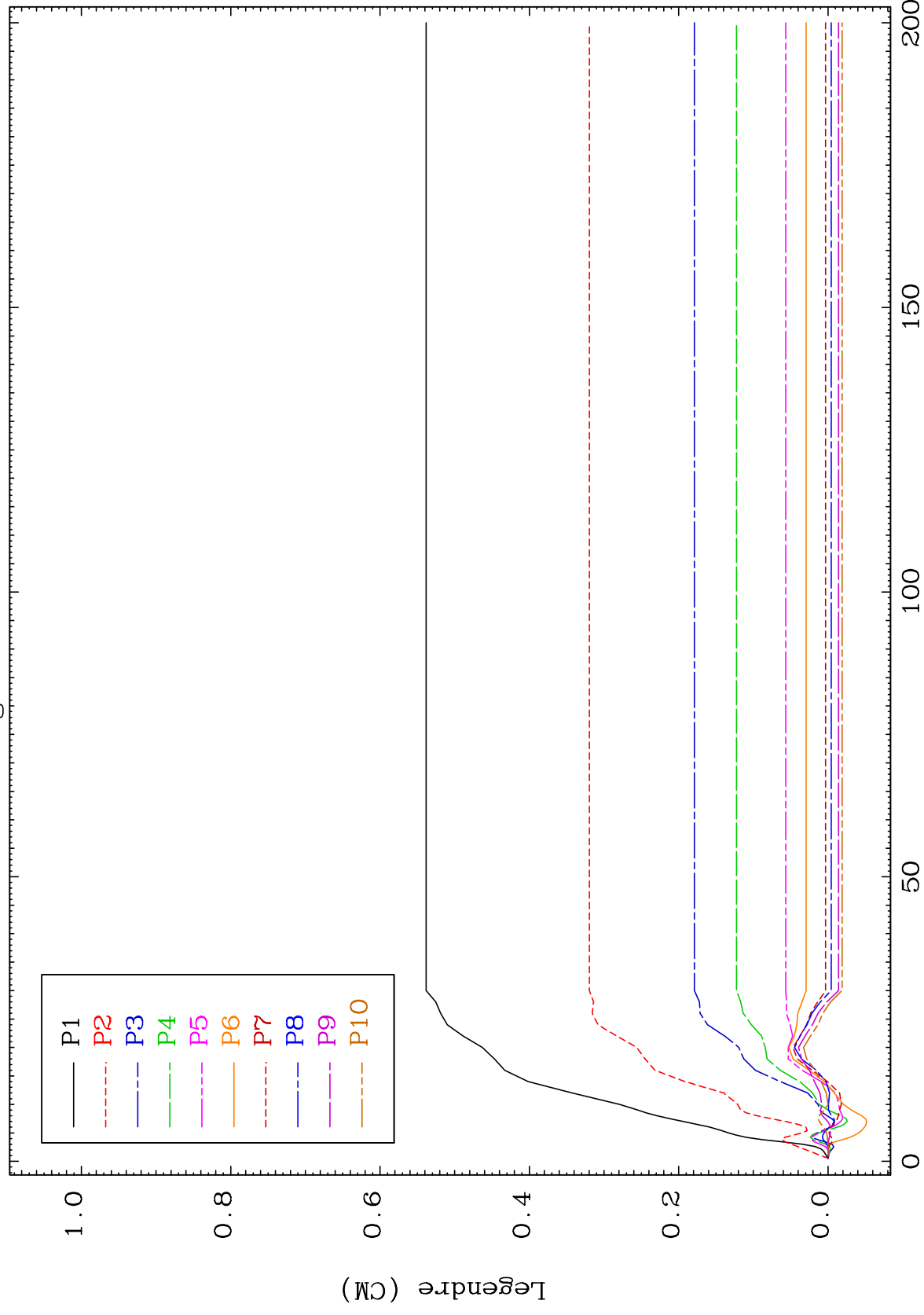




MAT 7640

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

76-0s-189



72

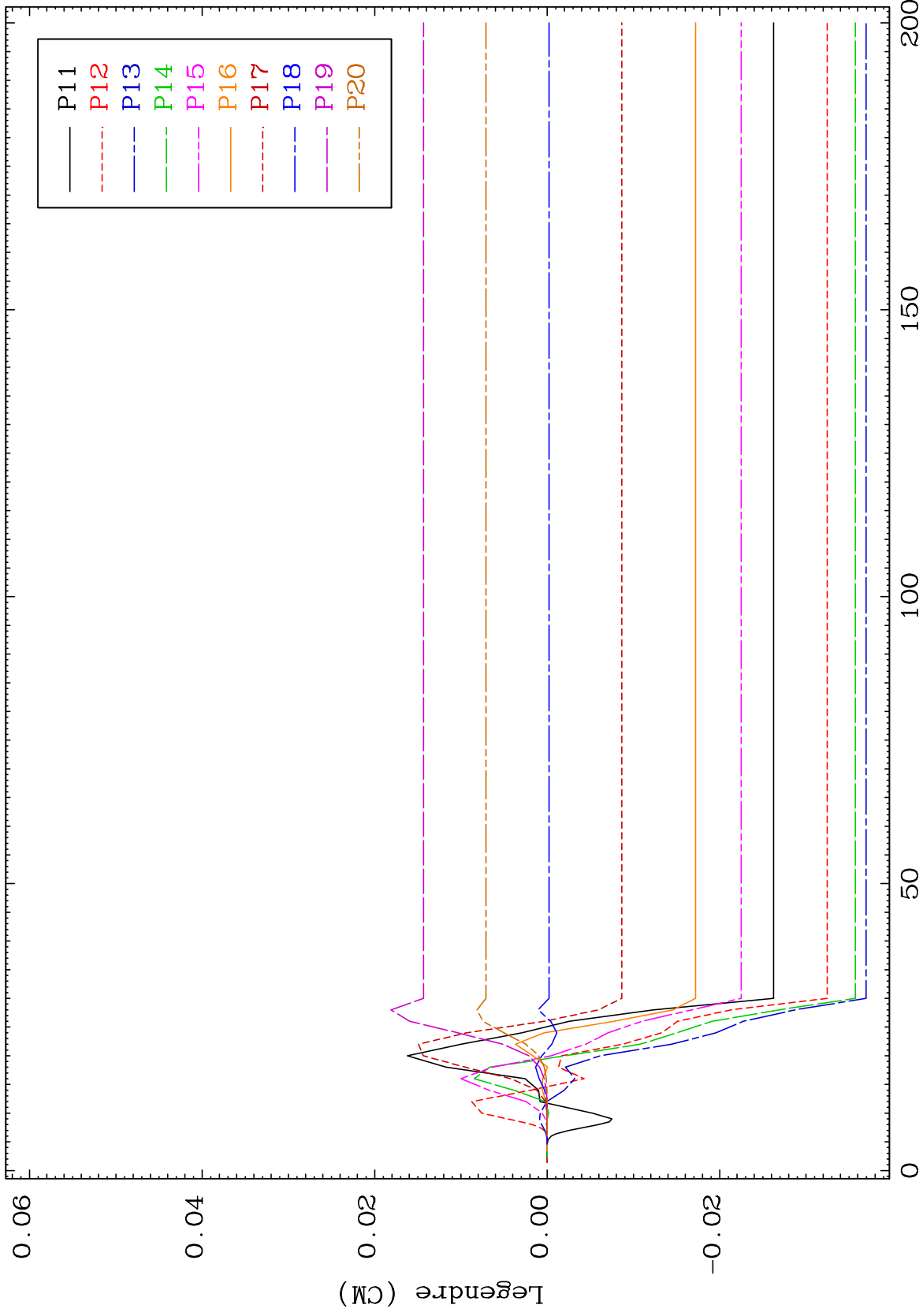
Incident Energy (MeV)

76-0s-189

MAT 7640

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

76-Os-189



73

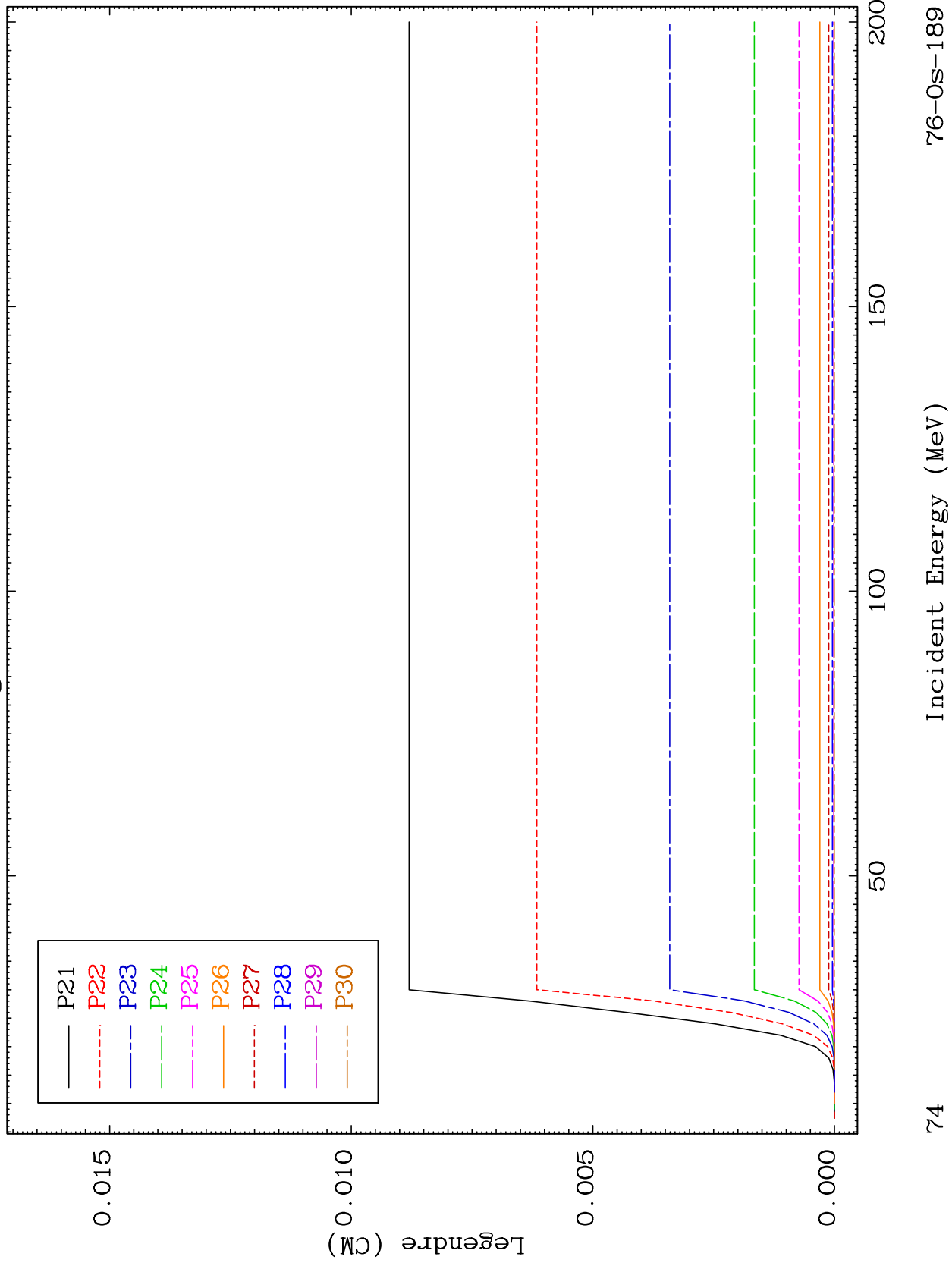
Incident Energy (MeV)

76-Os-189

MAT 7640

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

76-Os-189



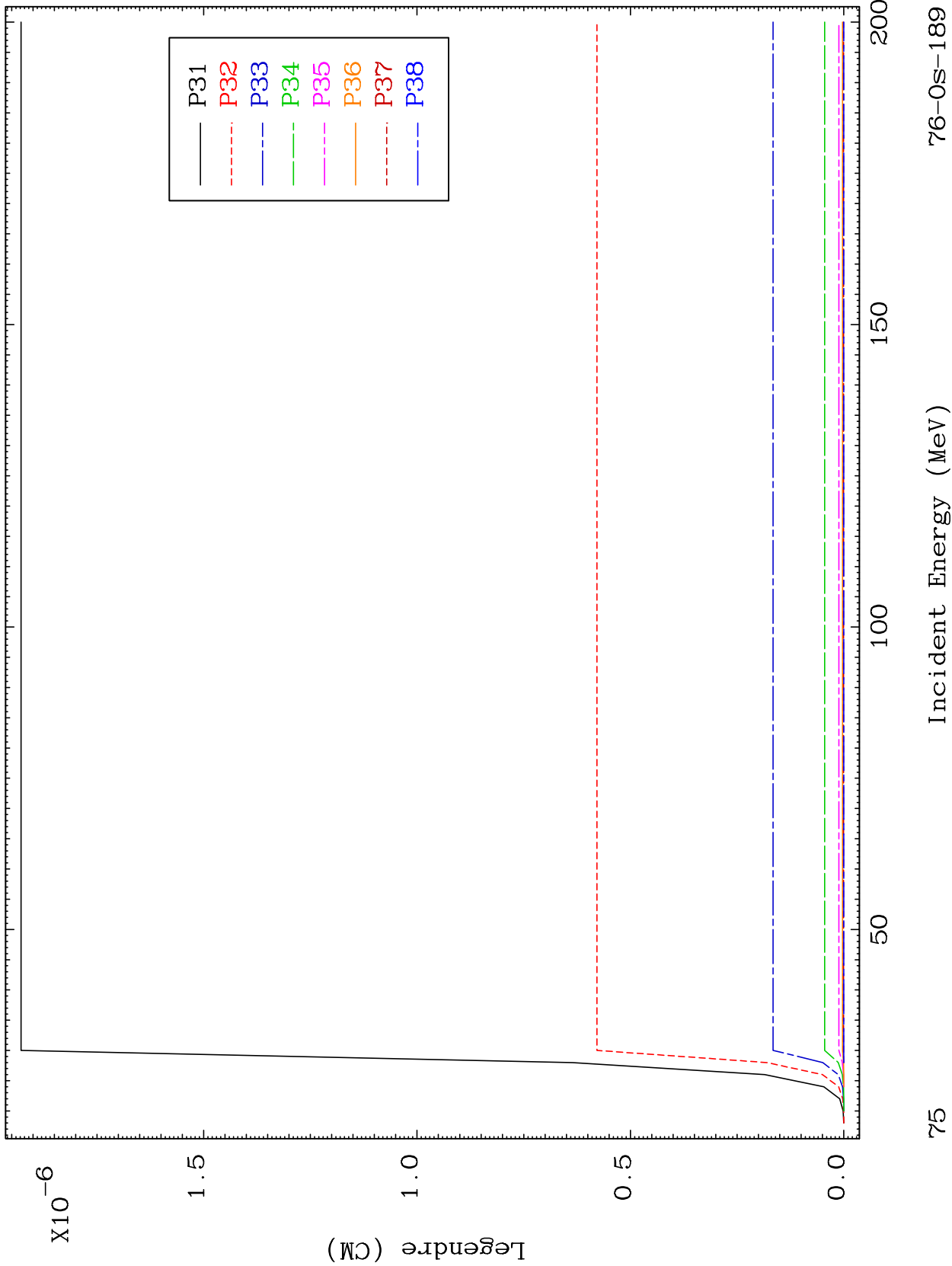
74

76-Os-189

MAT 7640

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

76-Os-189



75

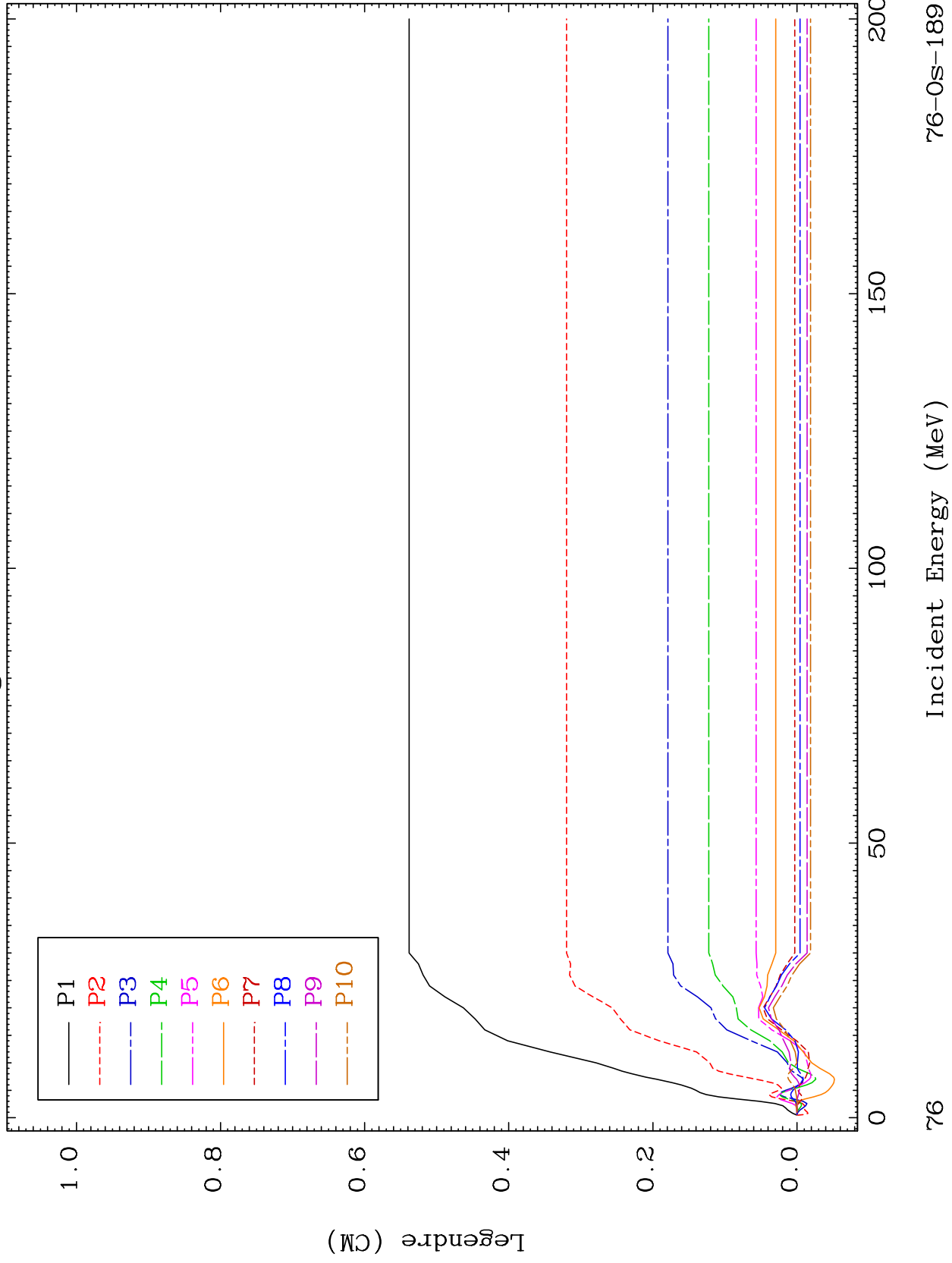
Incident Energy (MeV)

76-Os-189

MAT 7640

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

76-0s-189



76

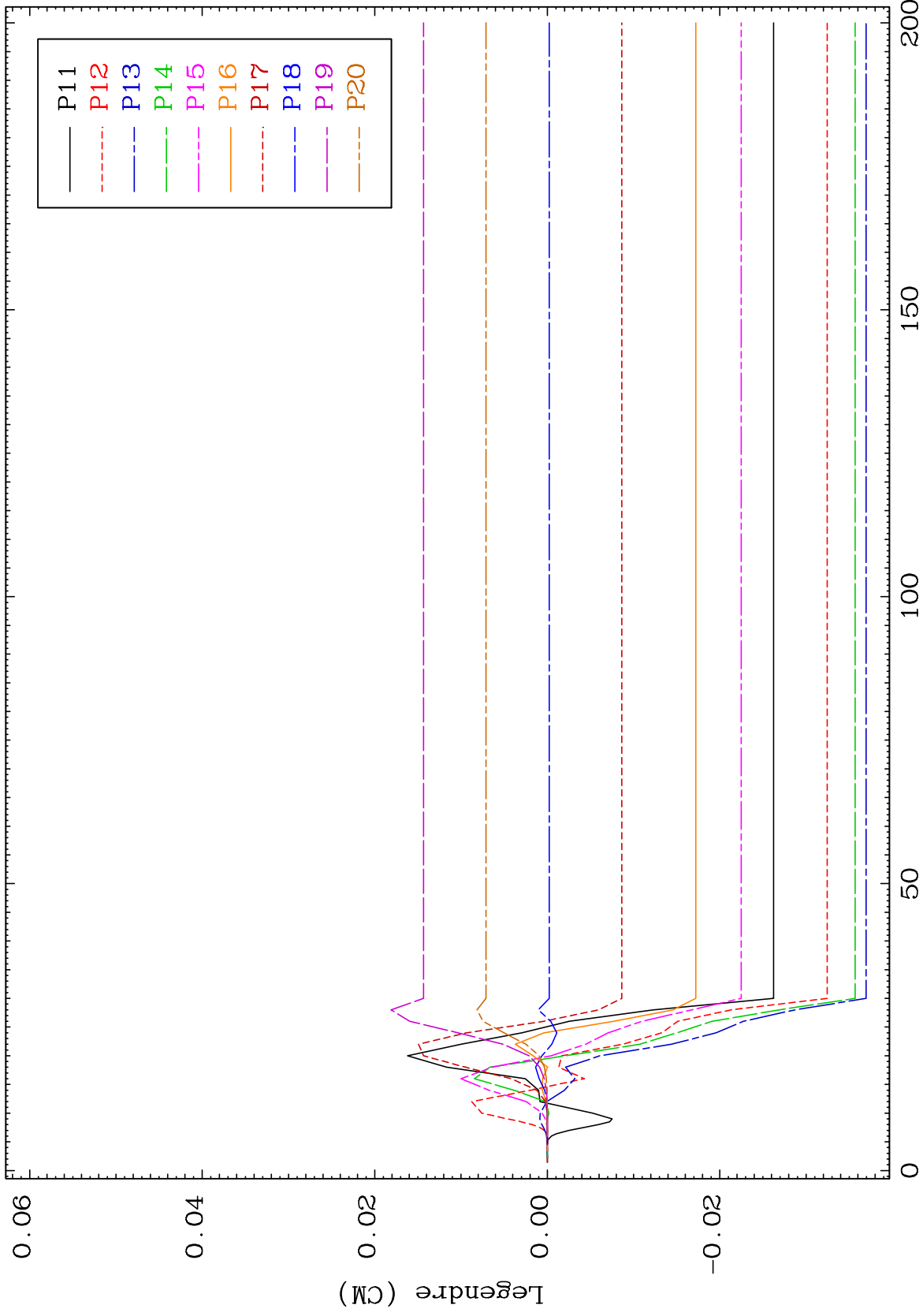
Incident Energy (MeV)

76-0s-189

MAT 7640

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

76-Os-189



77

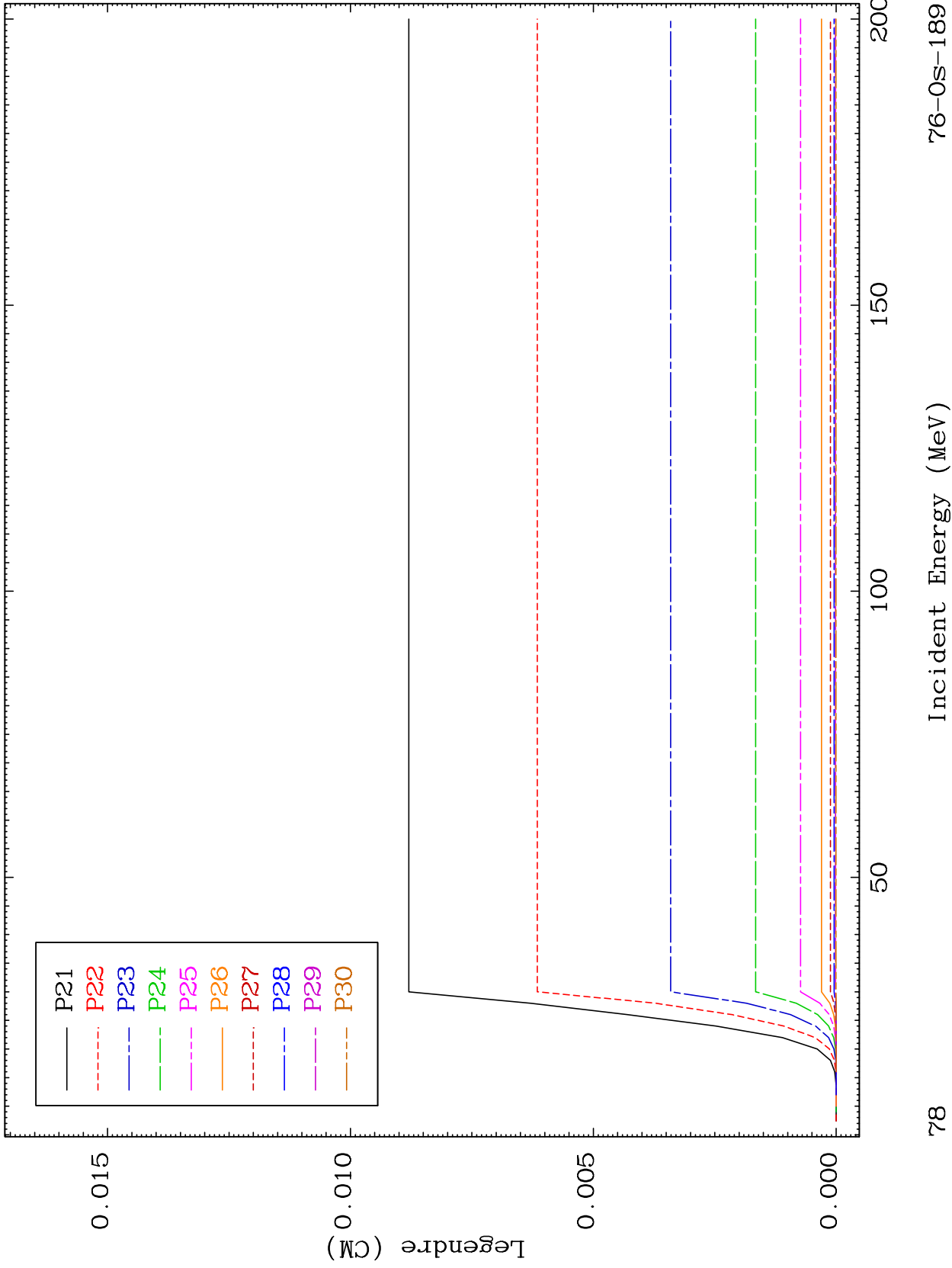
Incident Energy (MeV)

76-Os-189

MAT 7640

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

76-0s-189



78

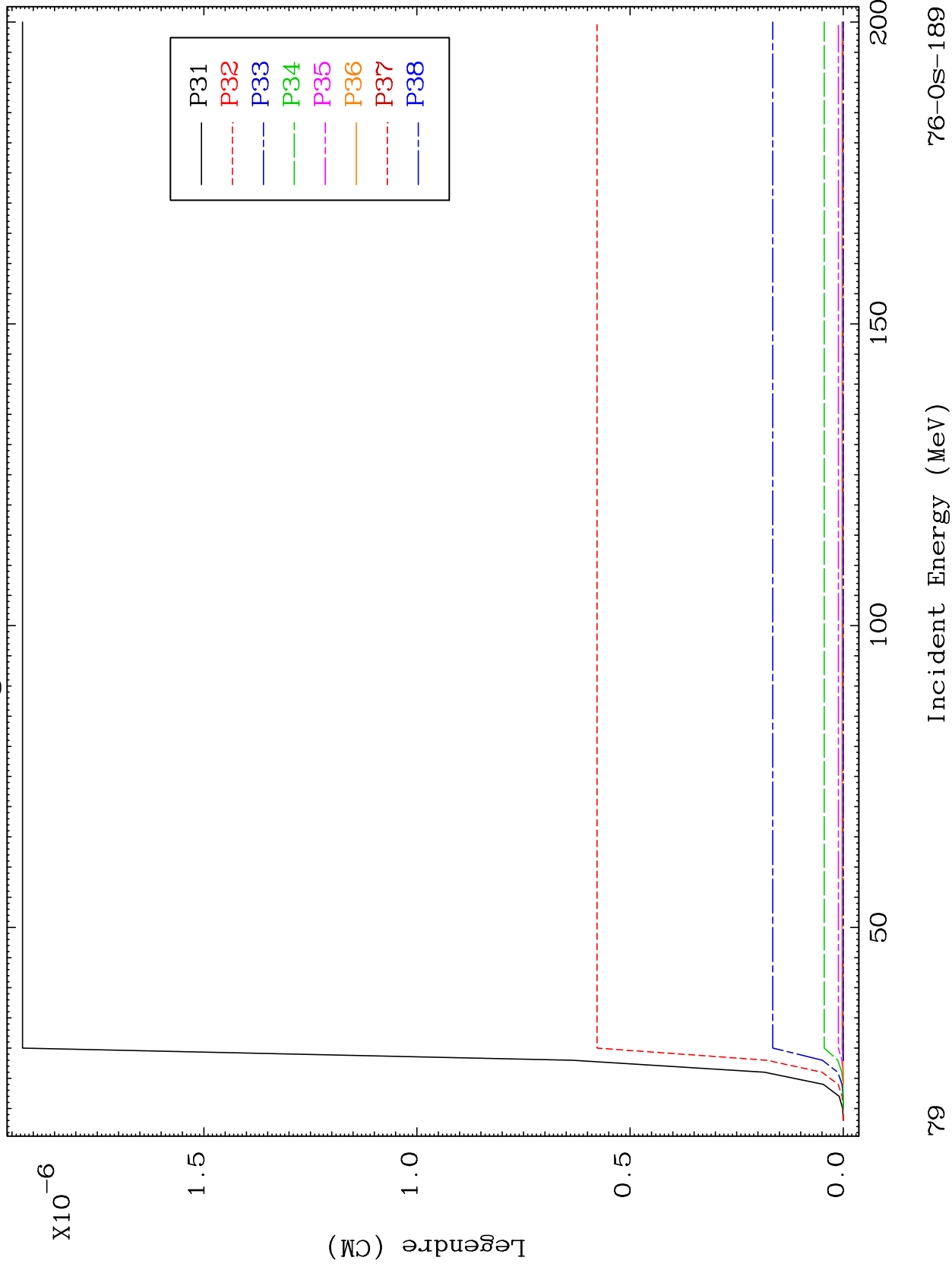
Incident Energy (MeV)

76-0s-189

MAT 7640

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

76-Os-189

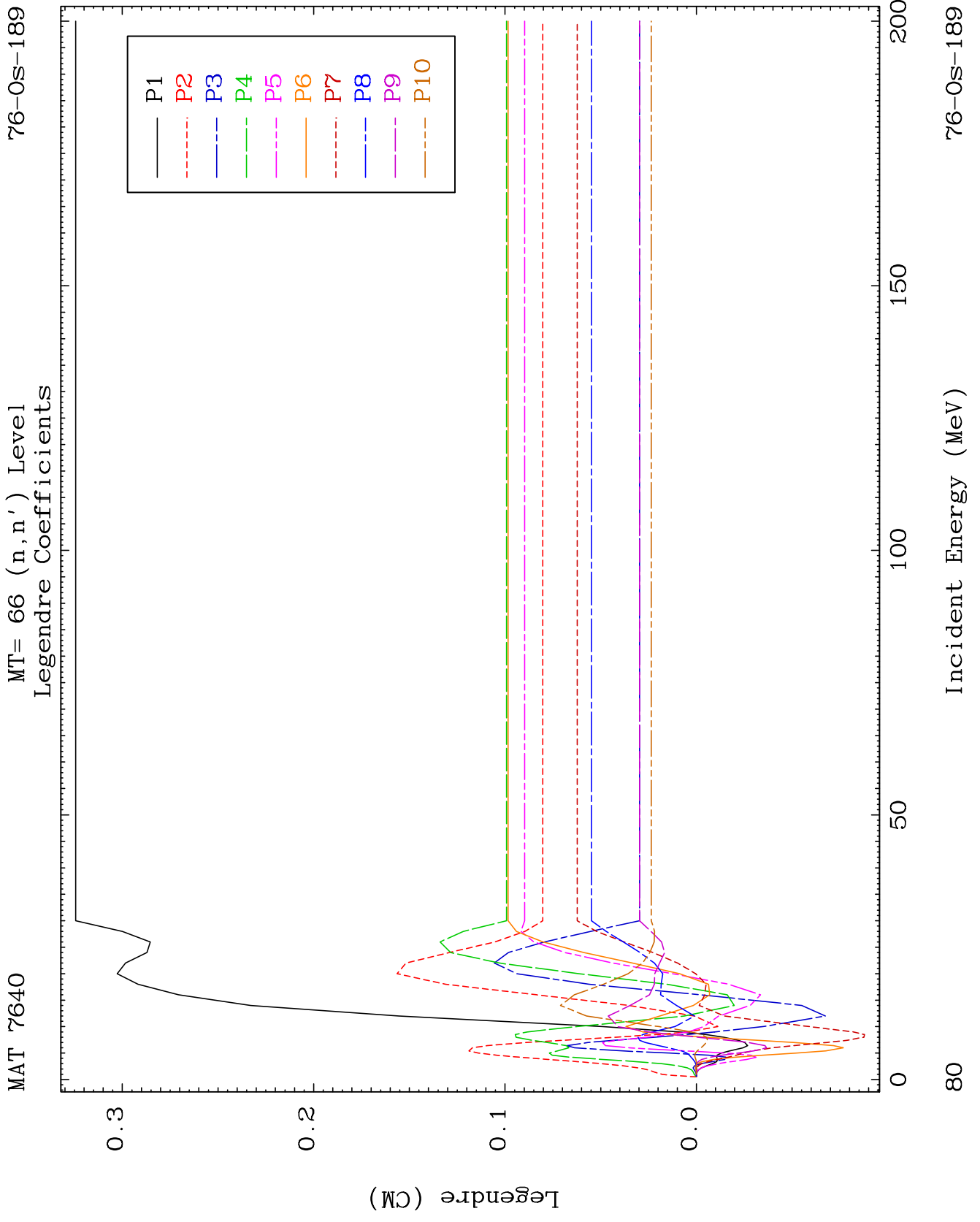


79

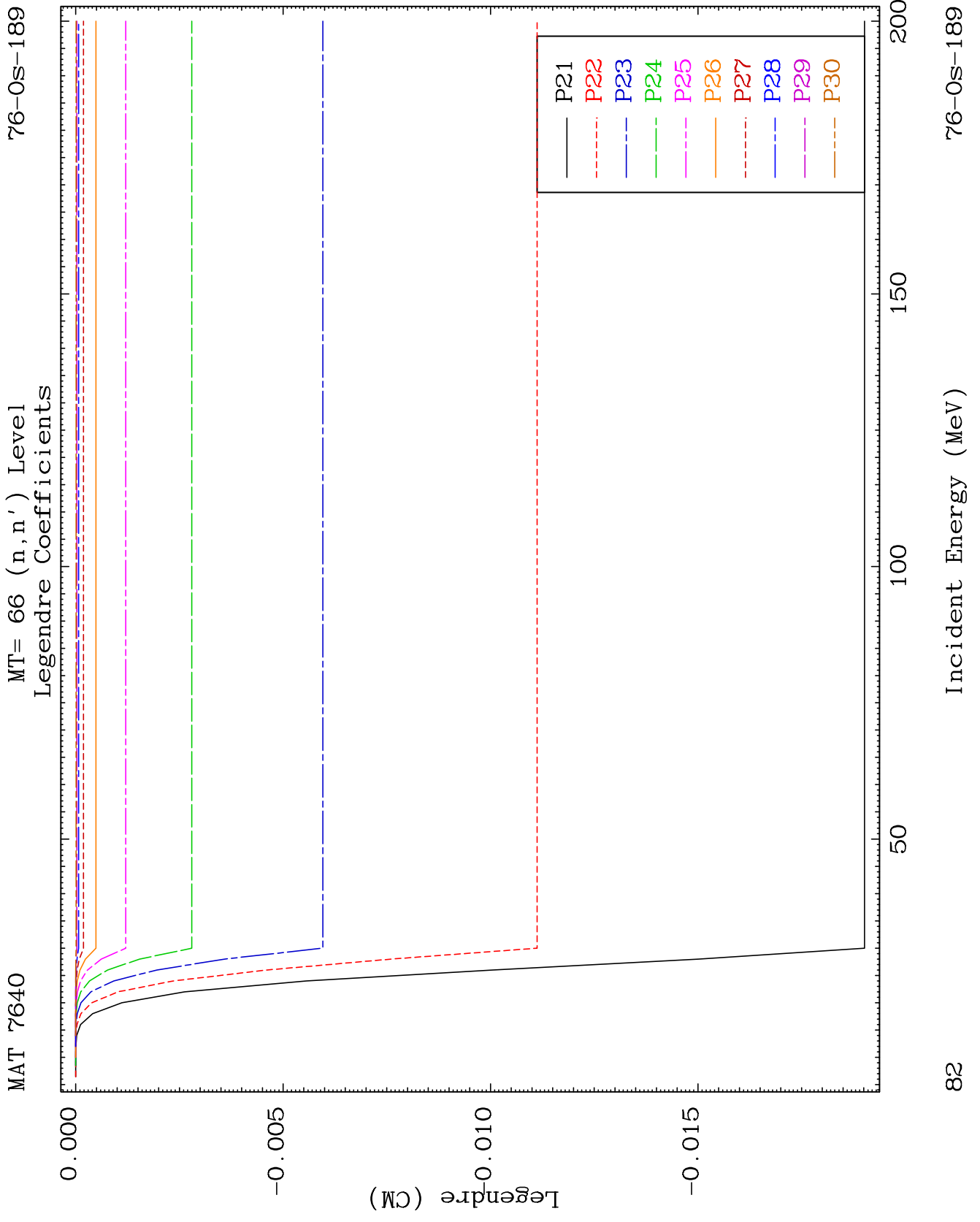
Incident Energy (MeV)

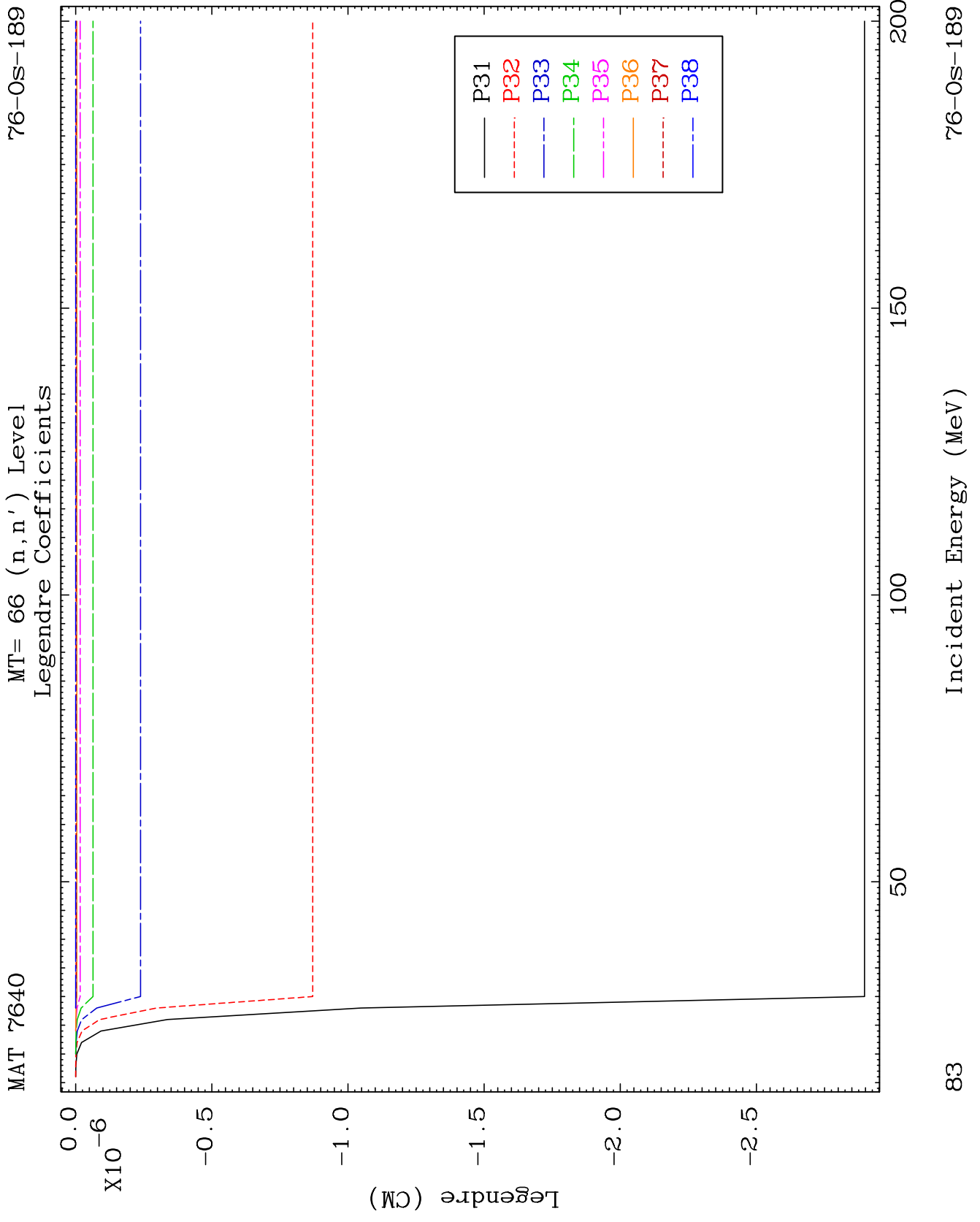
76-Os-189







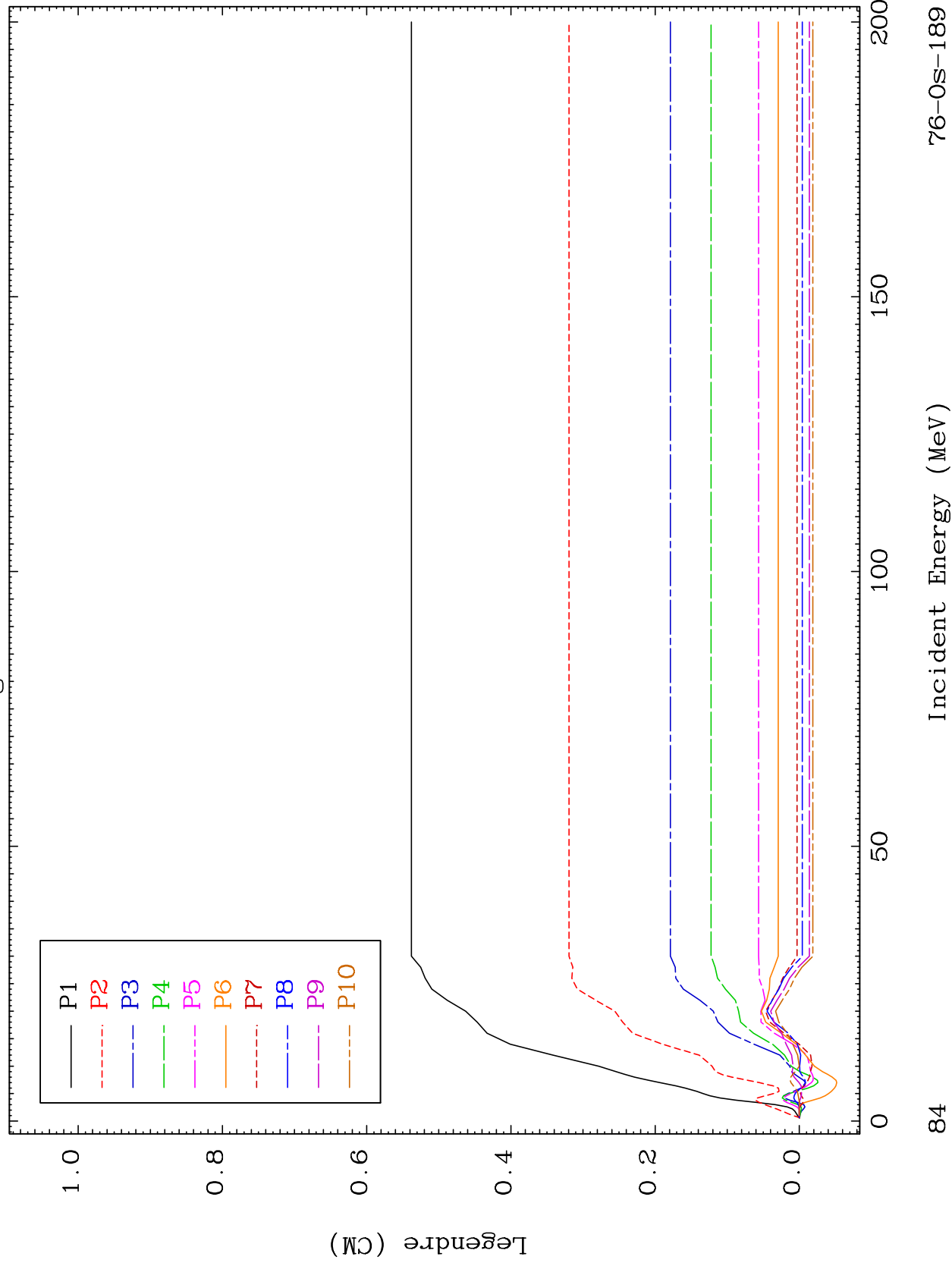




MAT 7640

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

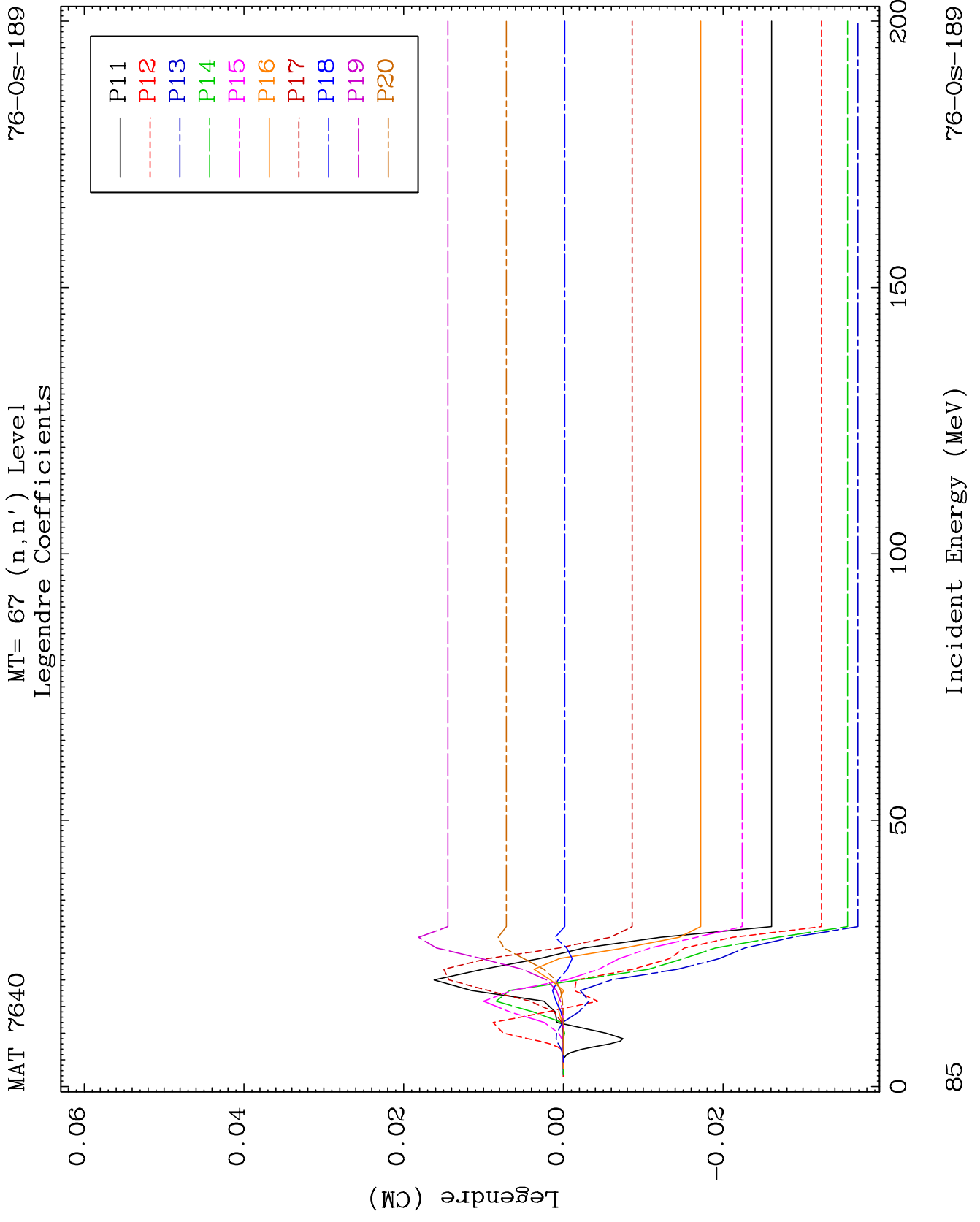
76-0s-189

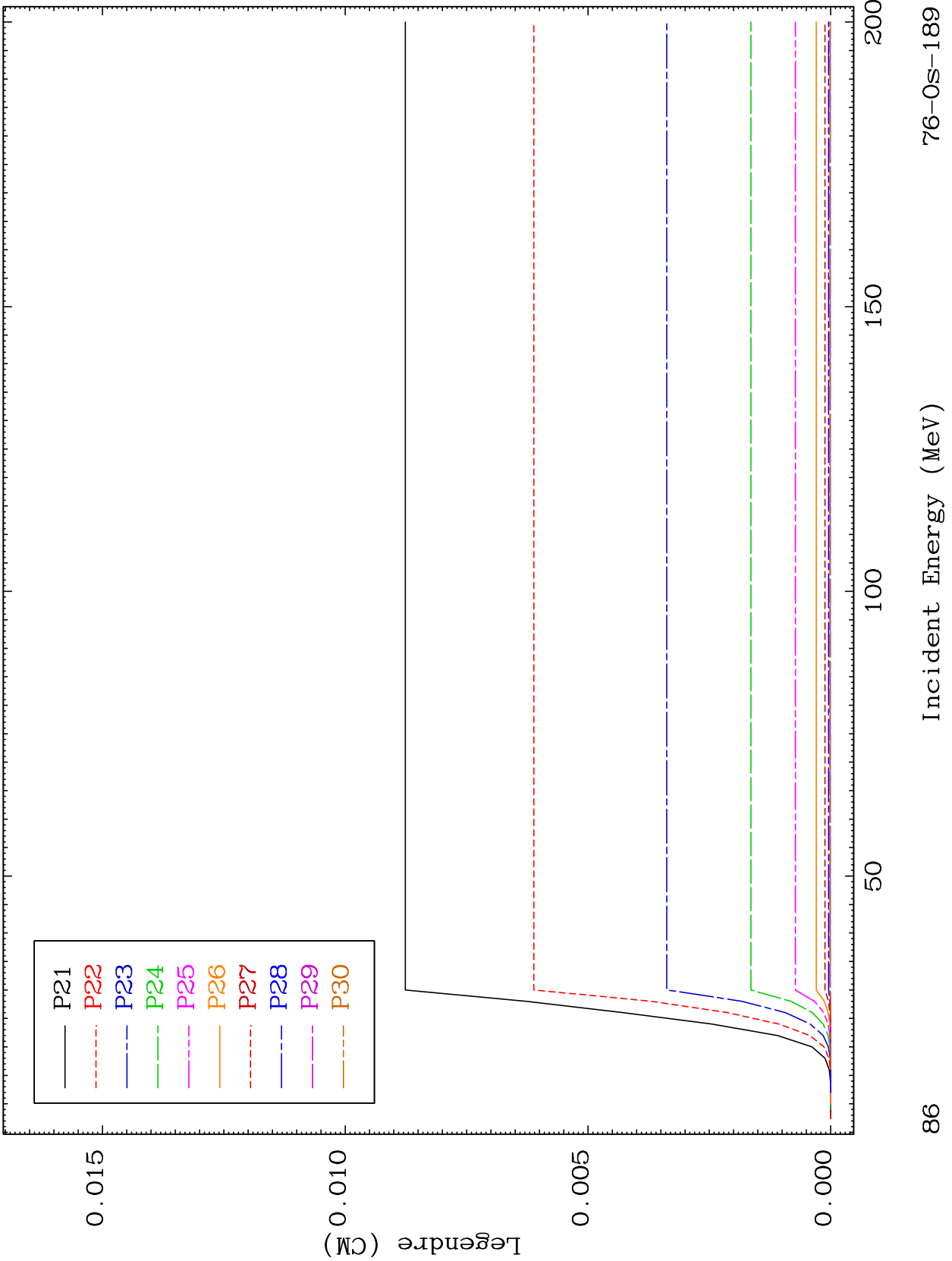


84

Incident Energy (MeV)

76-0s-189

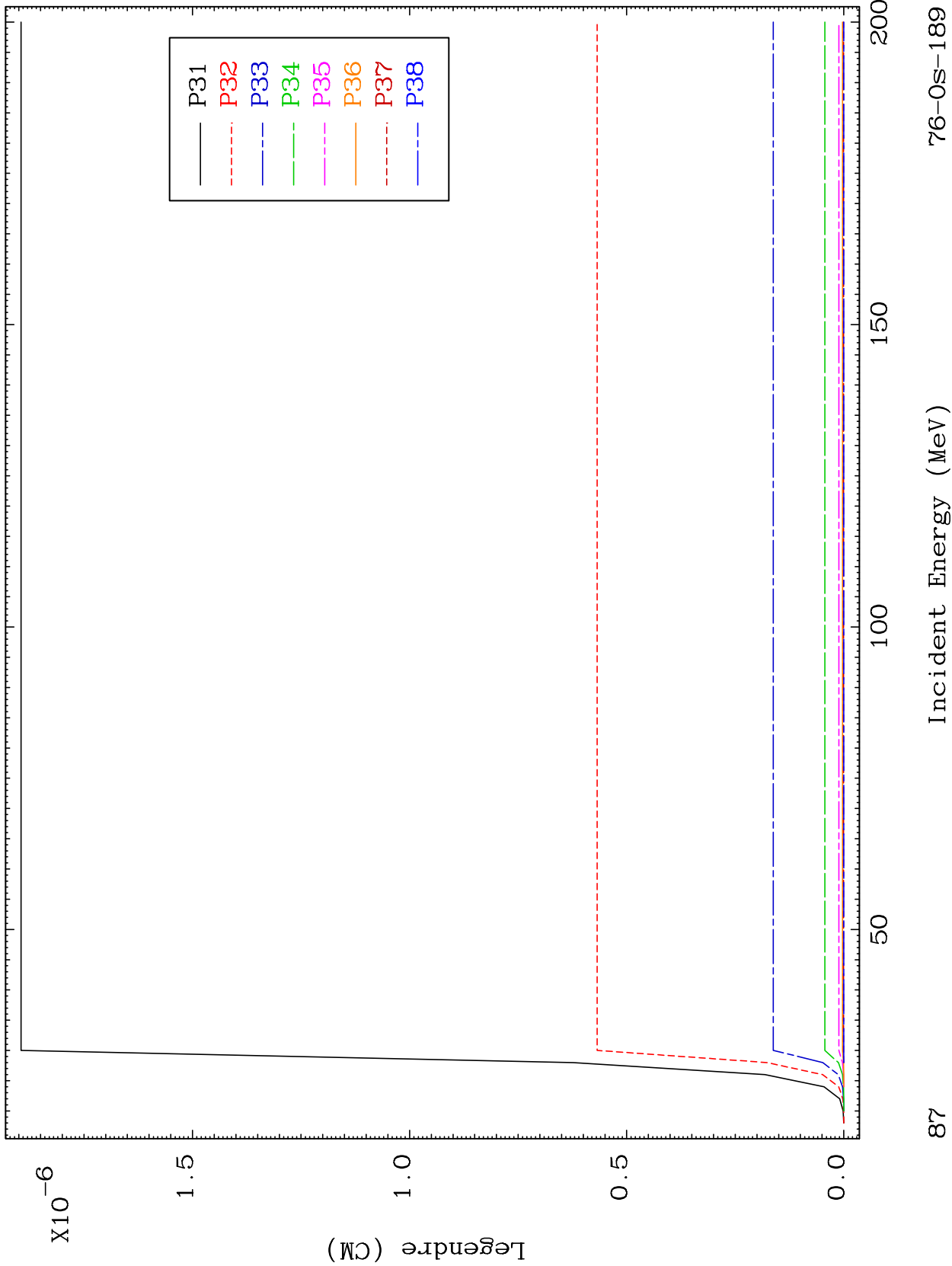




MAT 7640

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

76-Os-189

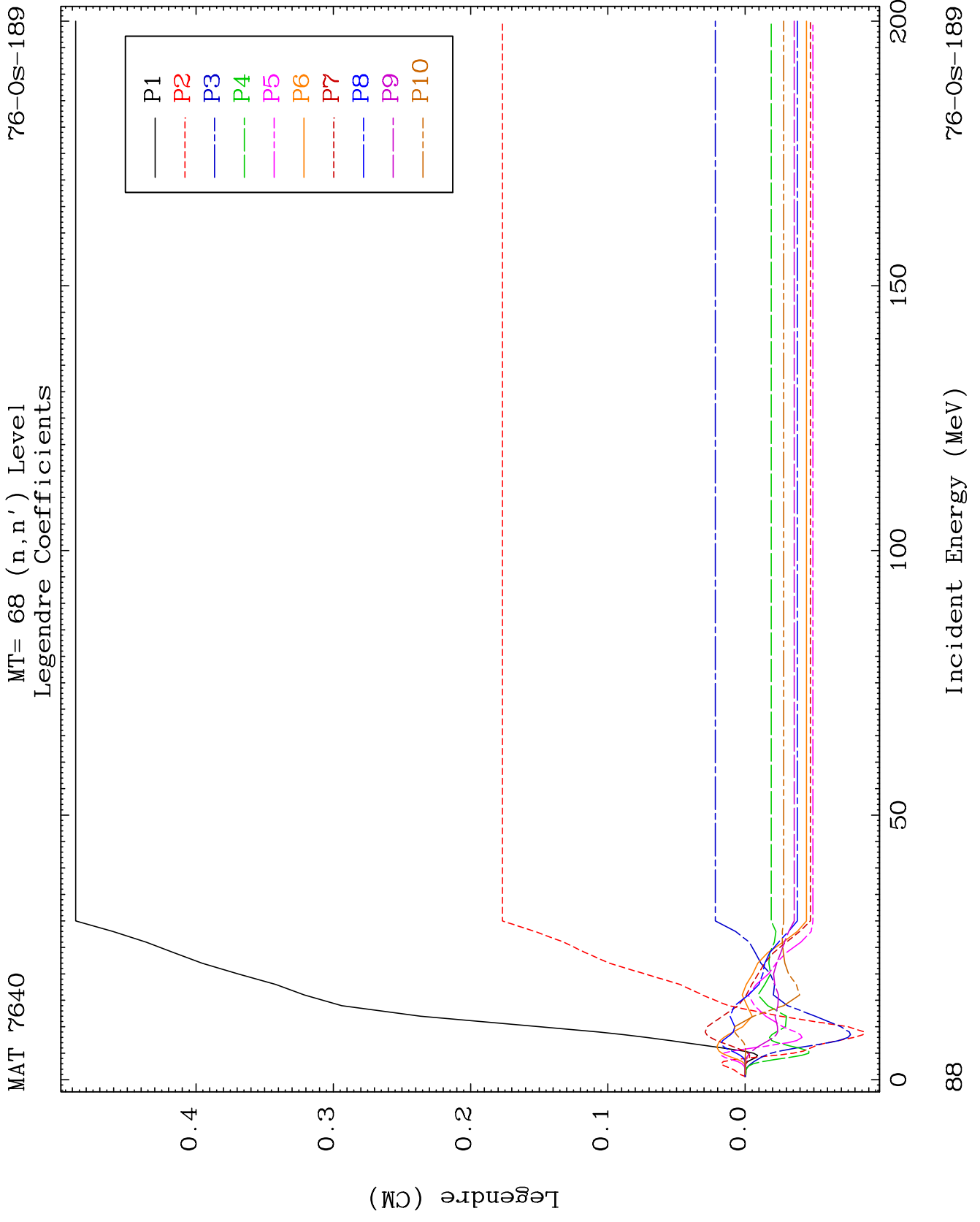


87

Incident Energy (MeV)

76-Os-189

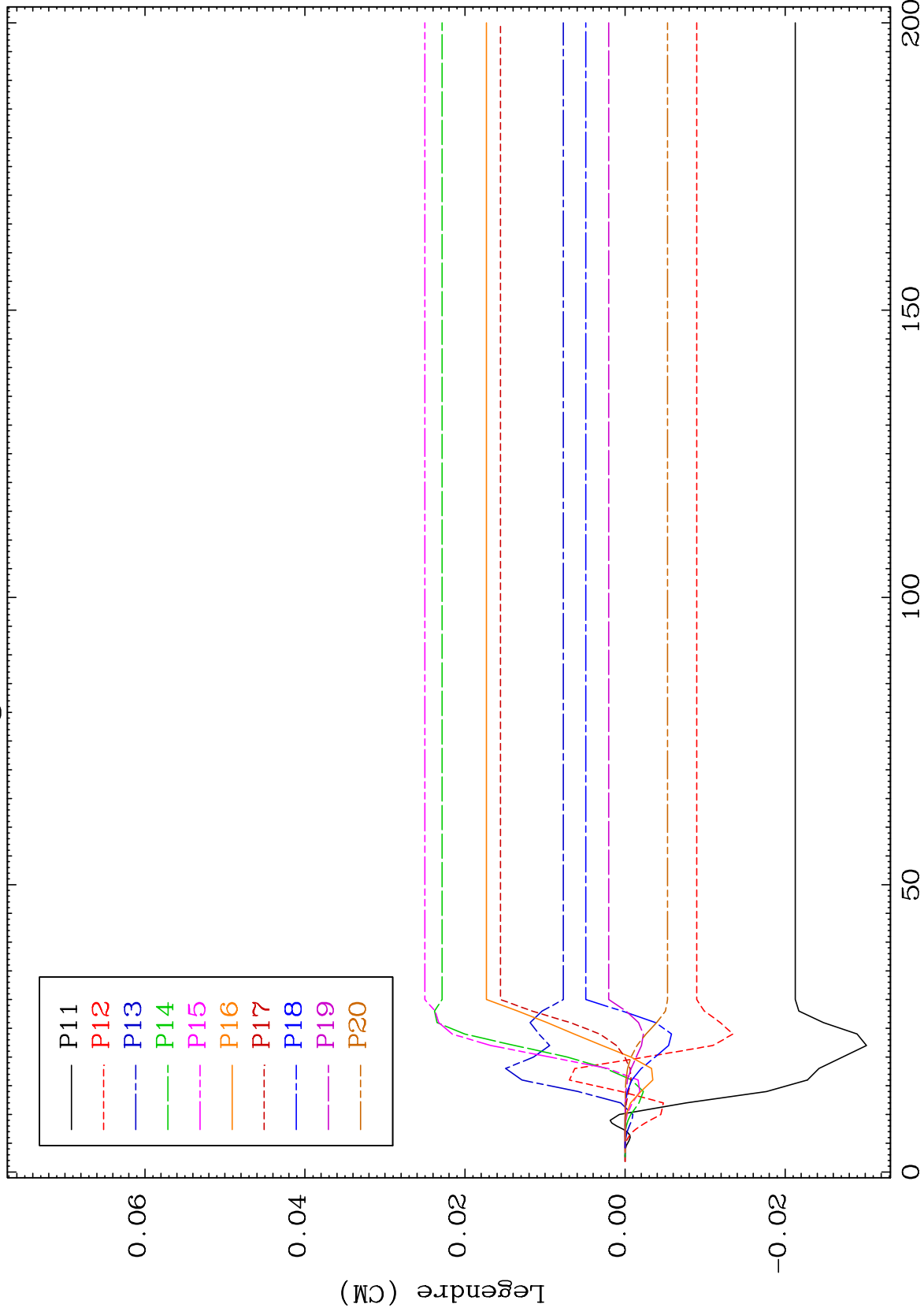




MAT 7640

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

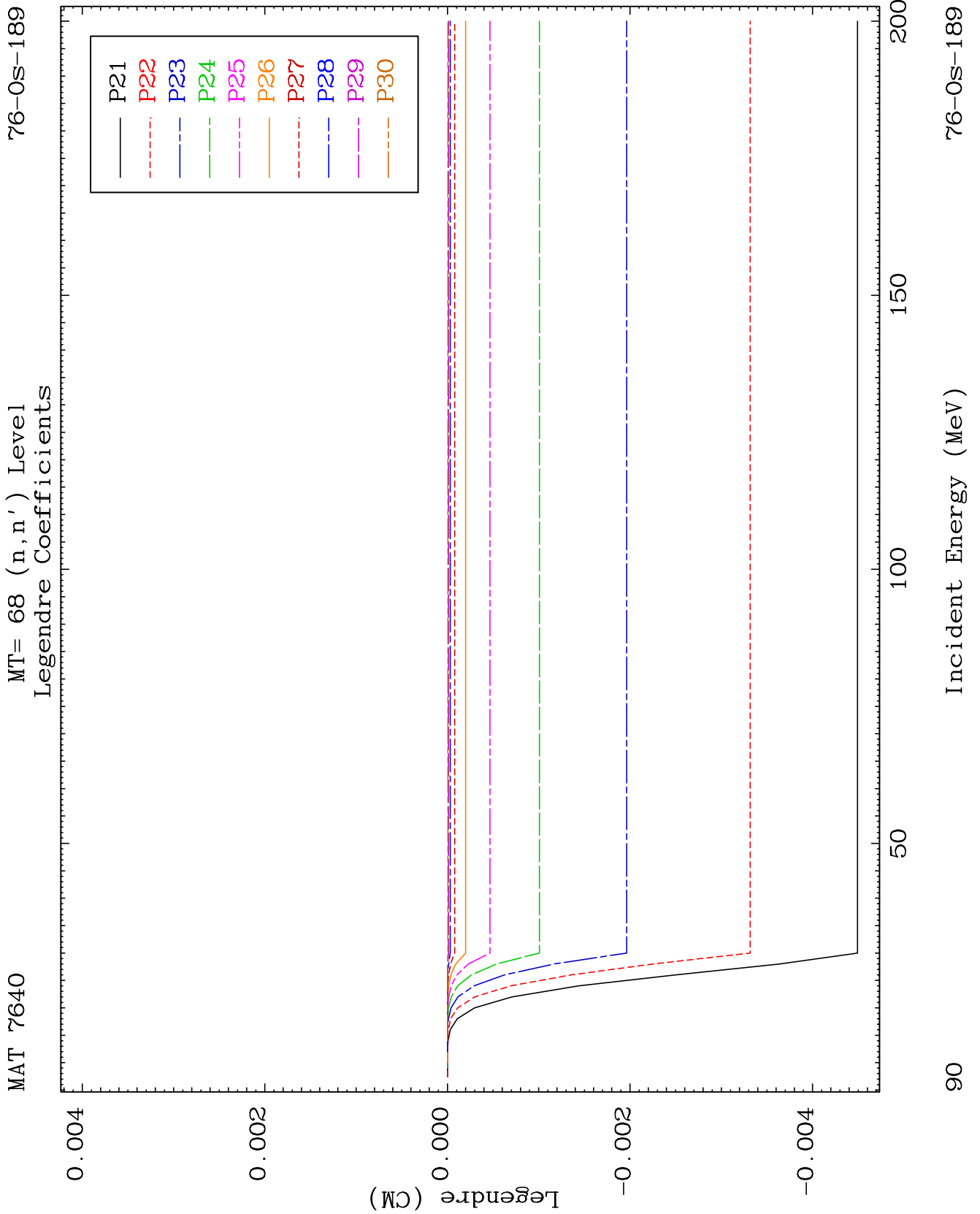
76-Os-189

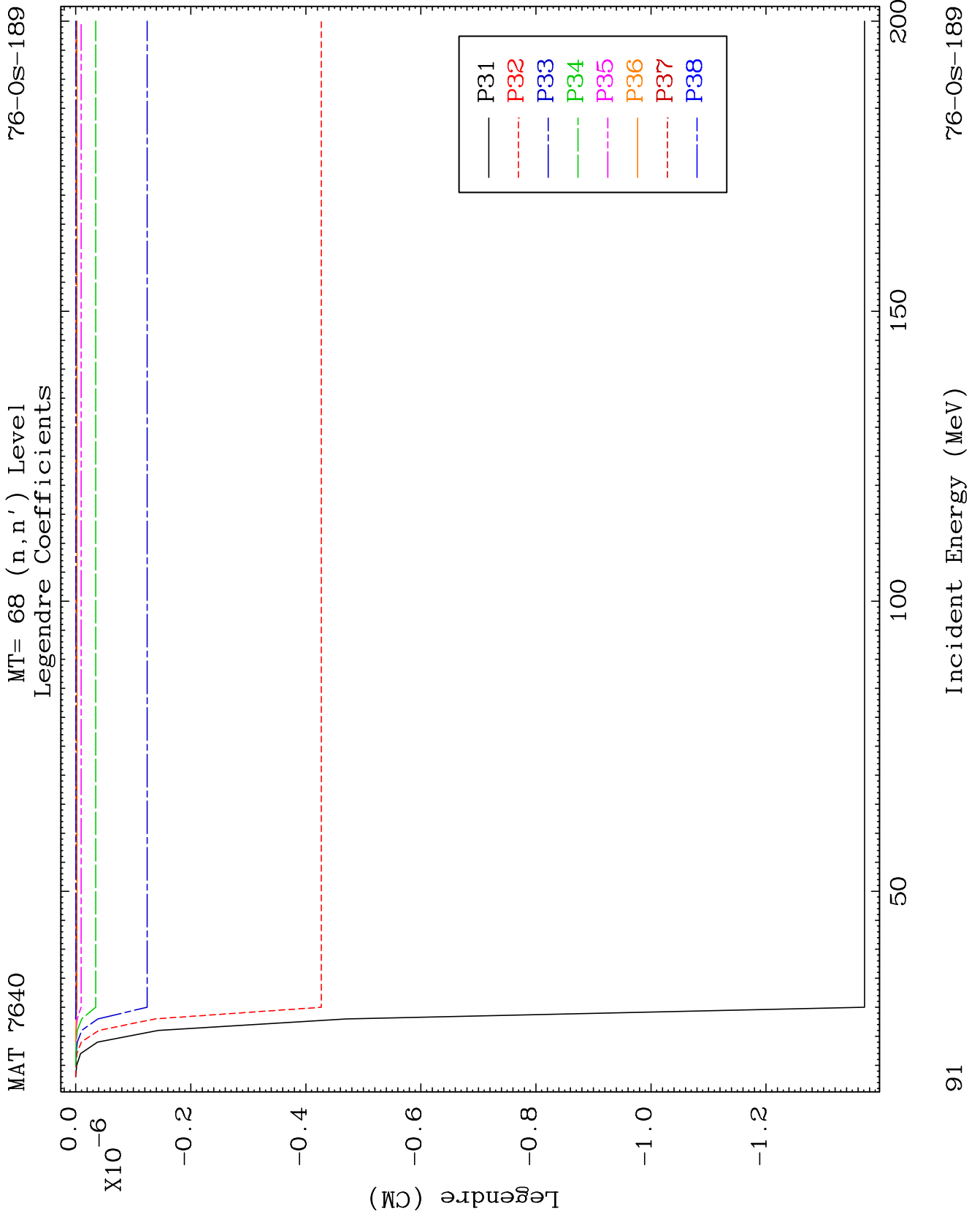


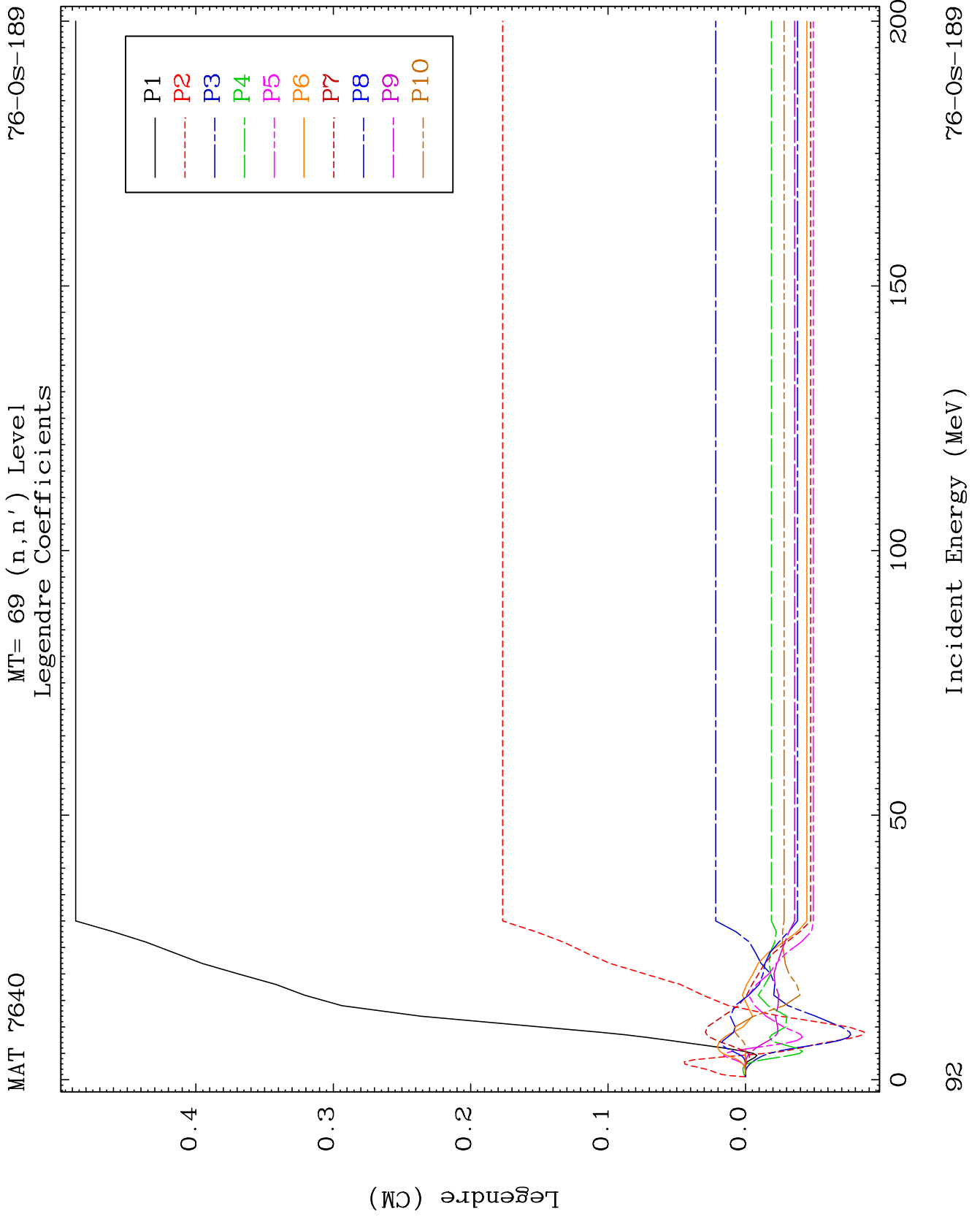
89

Incident Energy (MeV)

76-Os-189



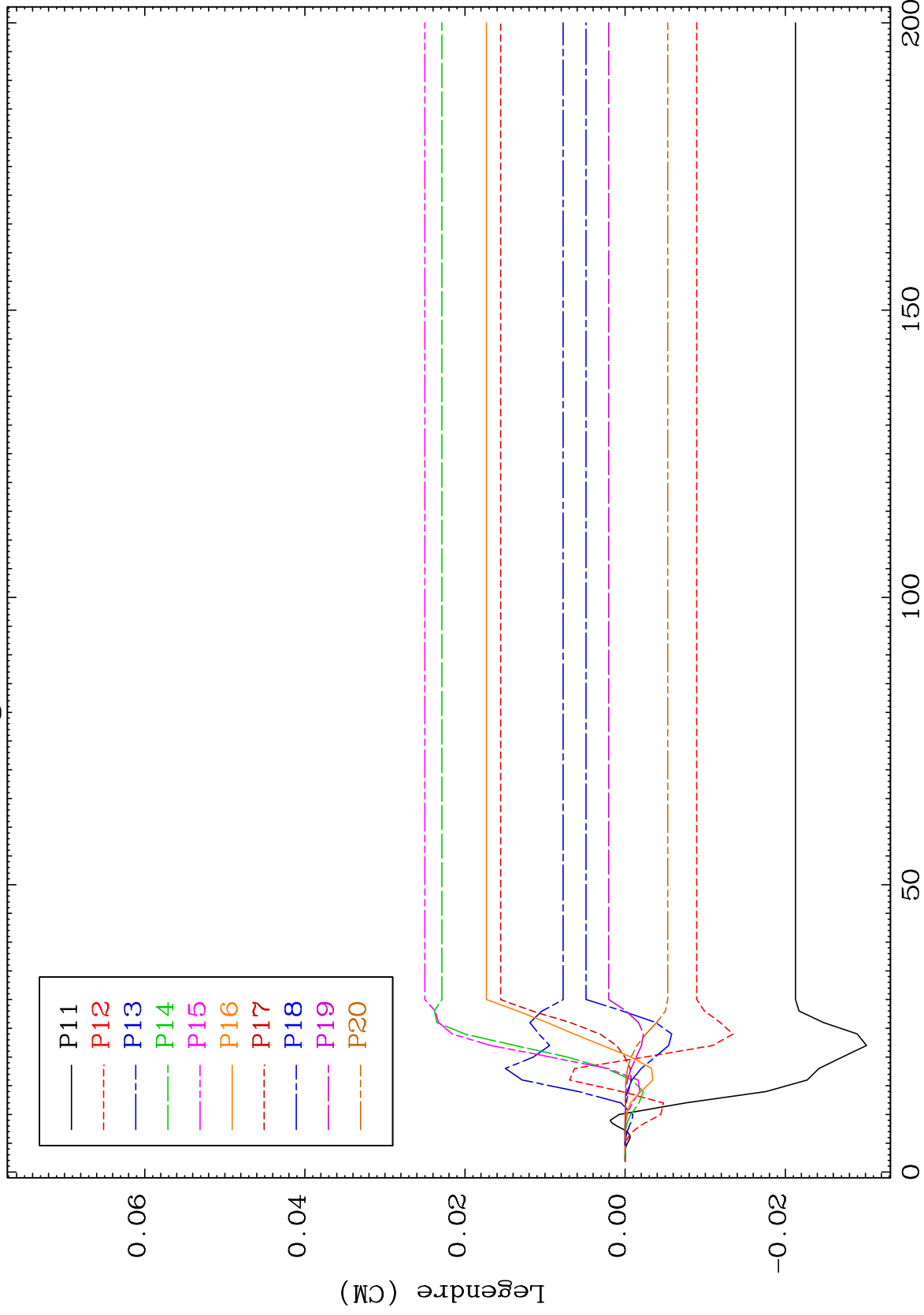




MAT 7640

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

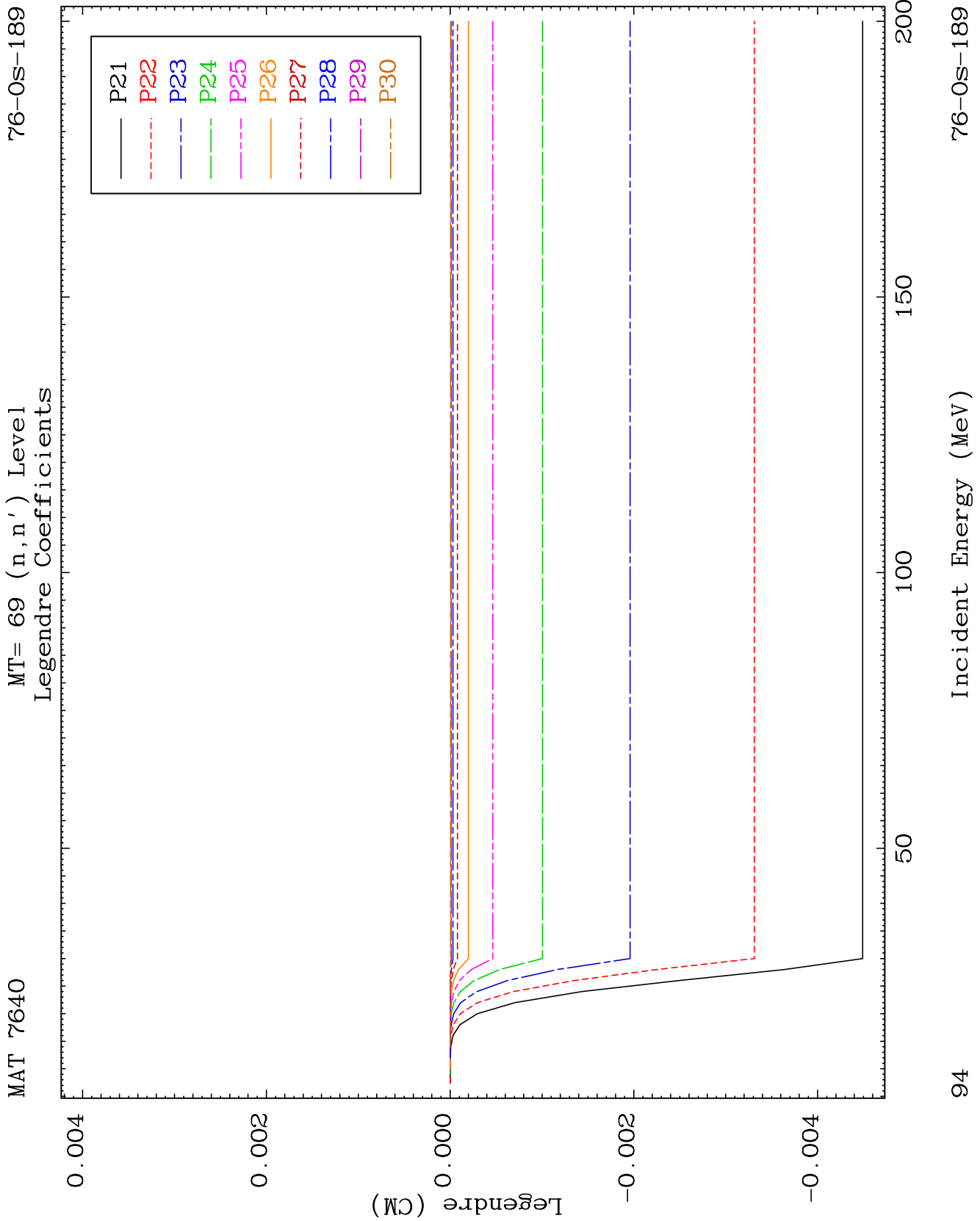
76-Os-189

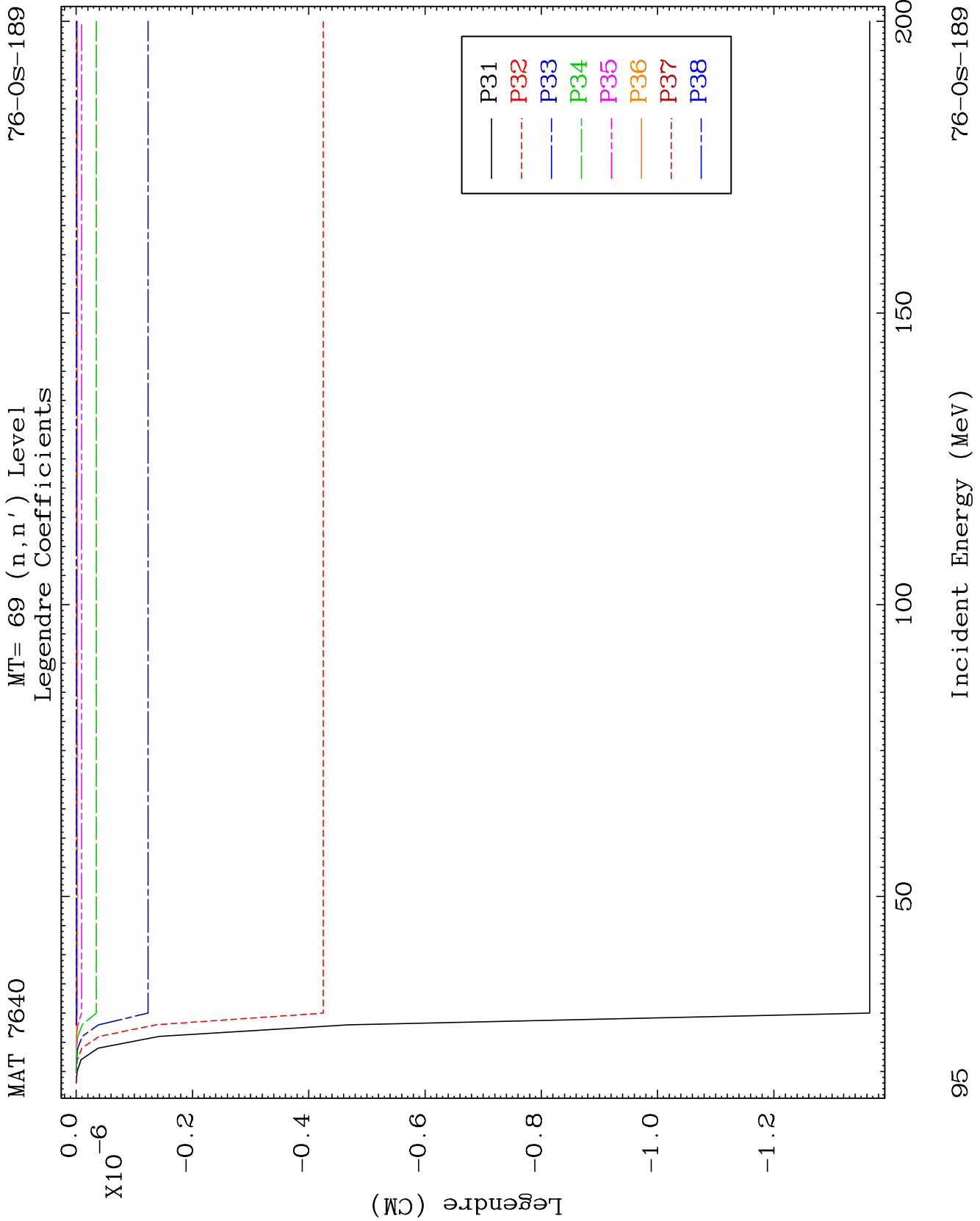


93

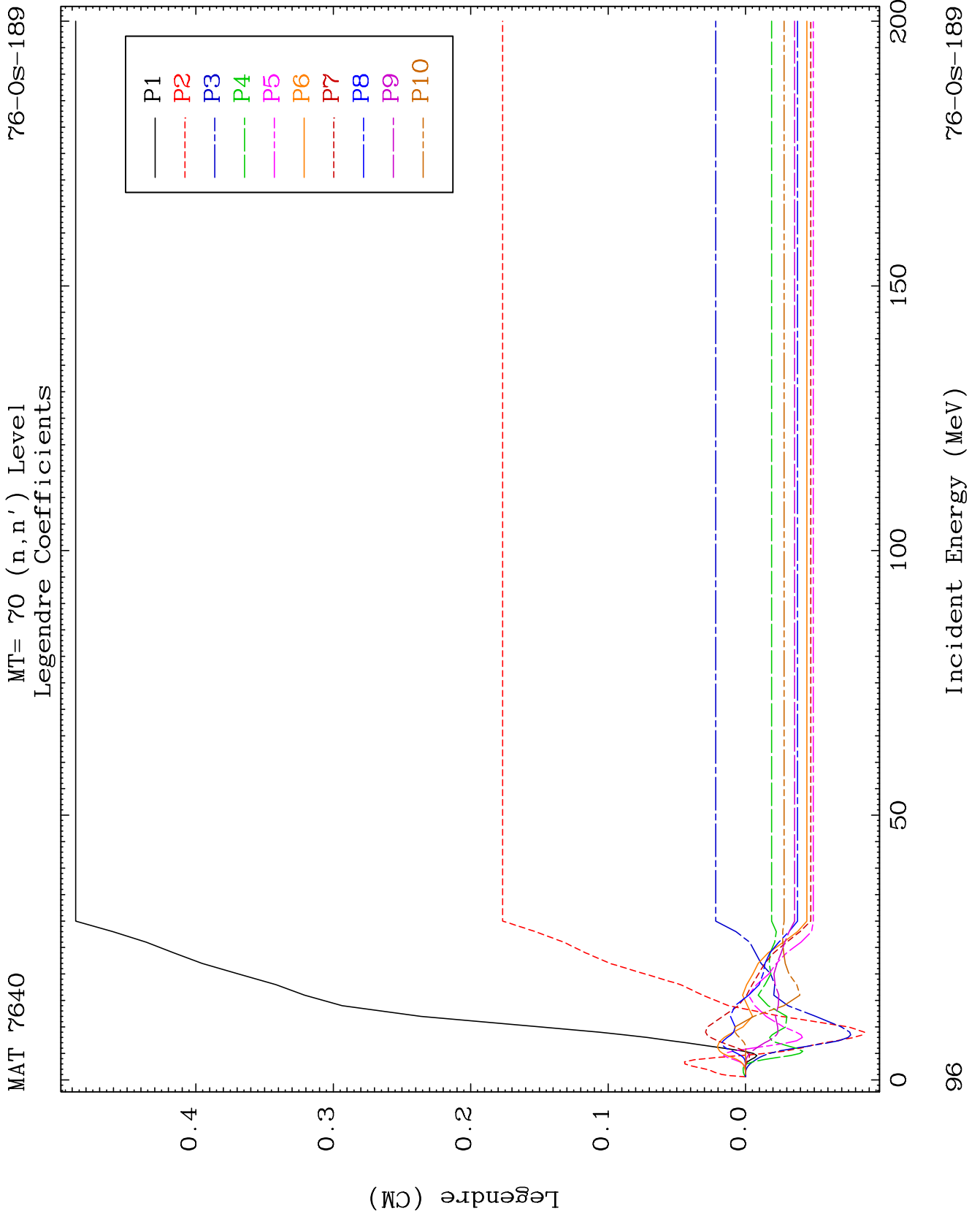
Incident Energy (MeV)

76-Os-189





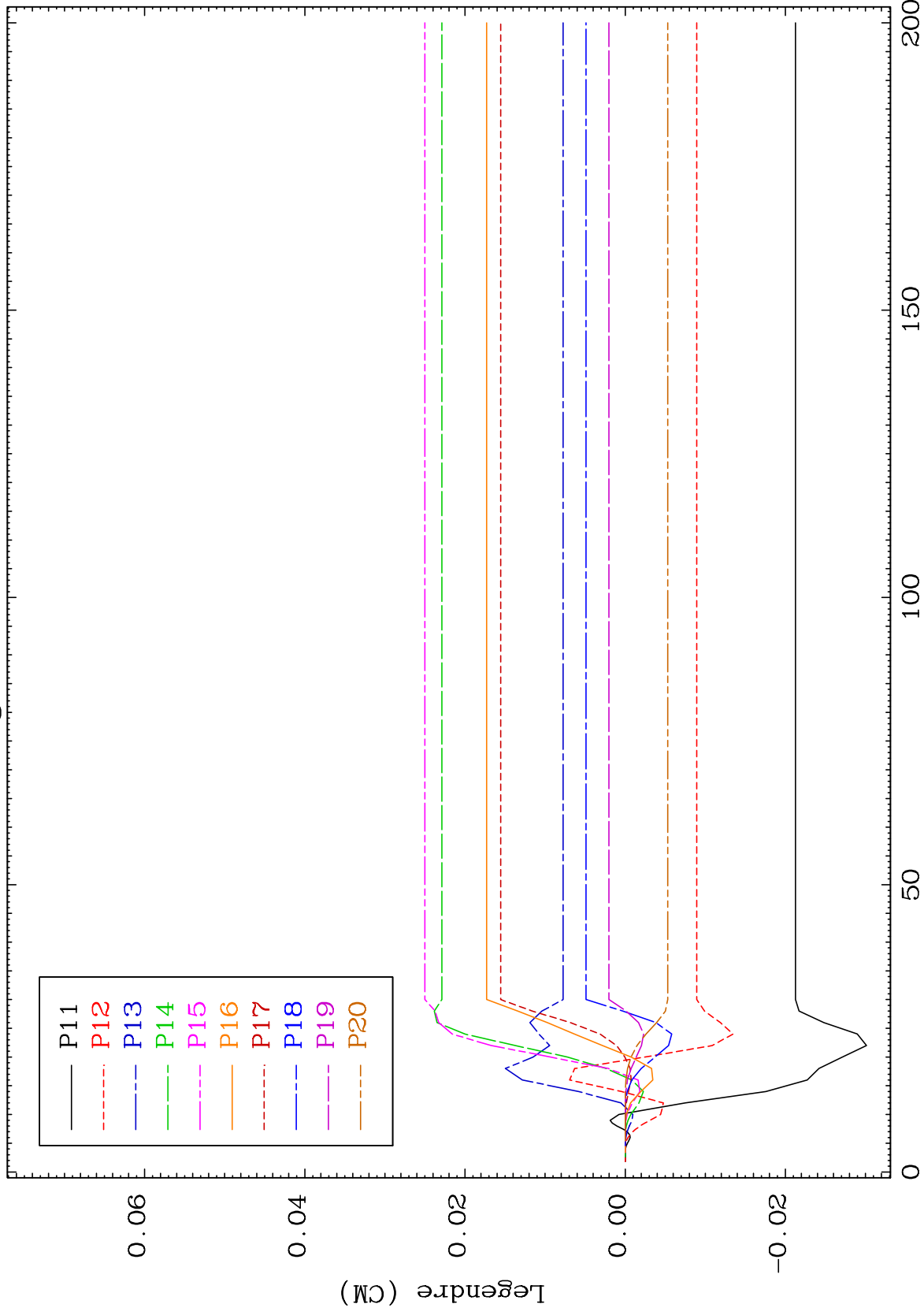




MAT 7640

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

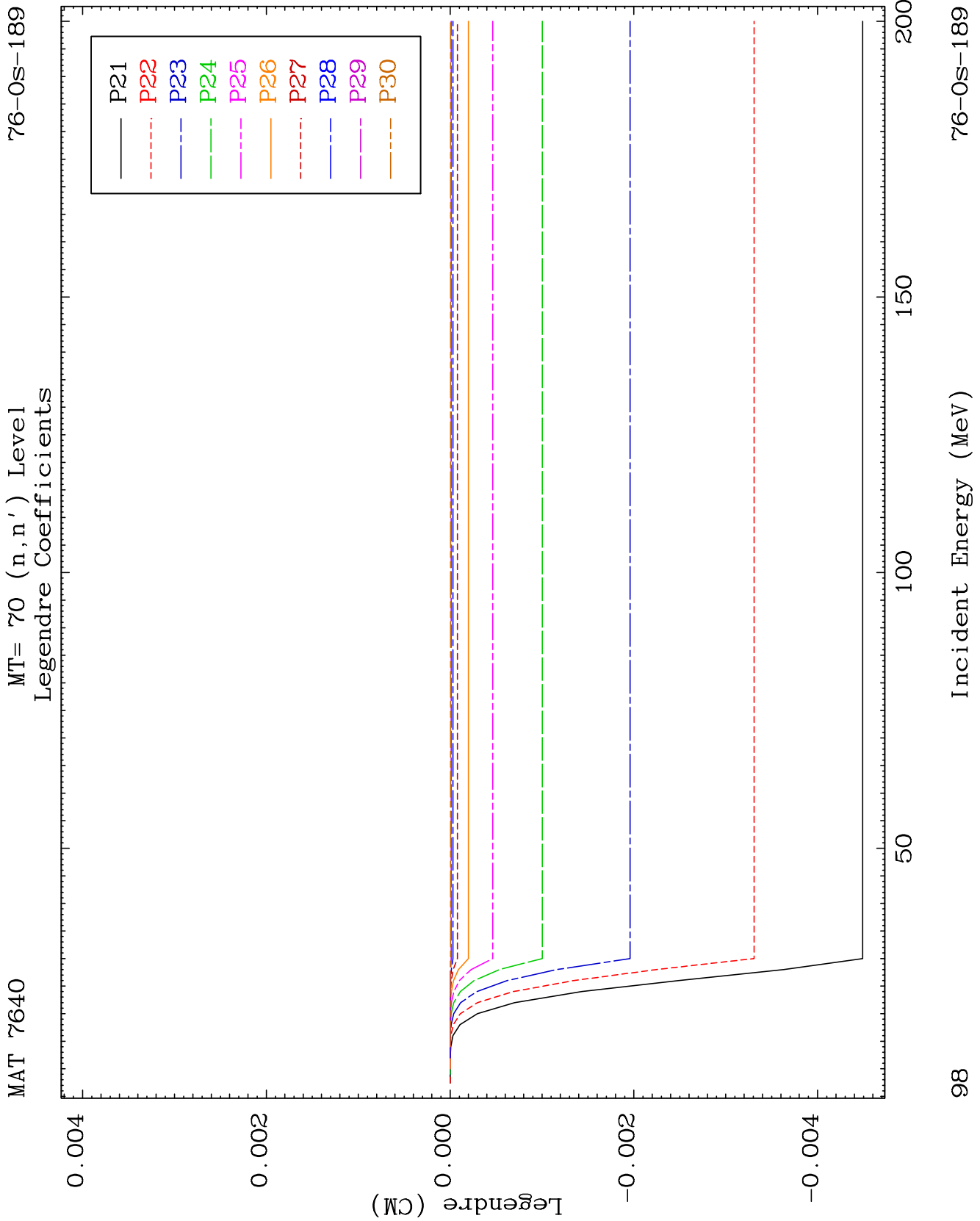
76-Os-189

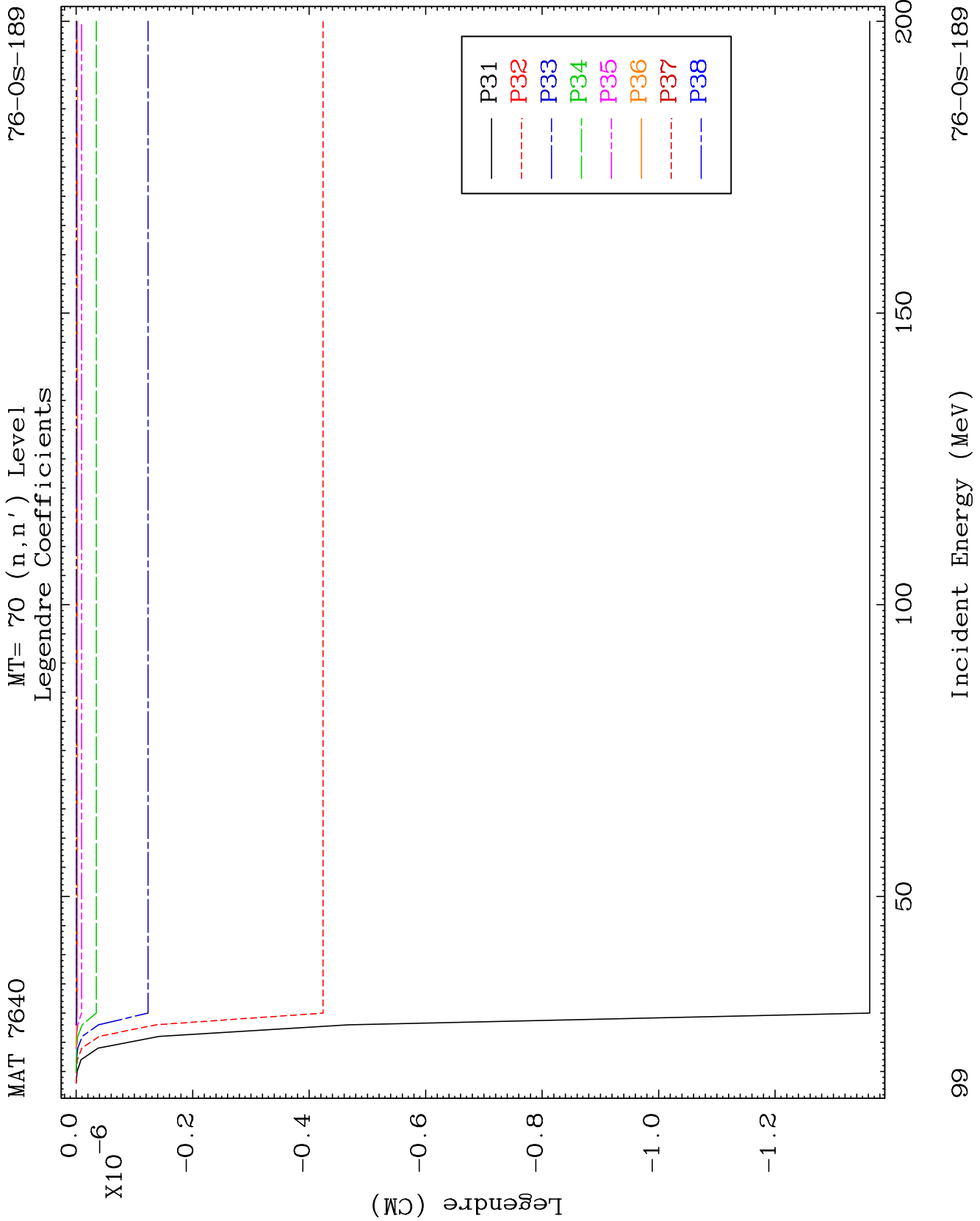


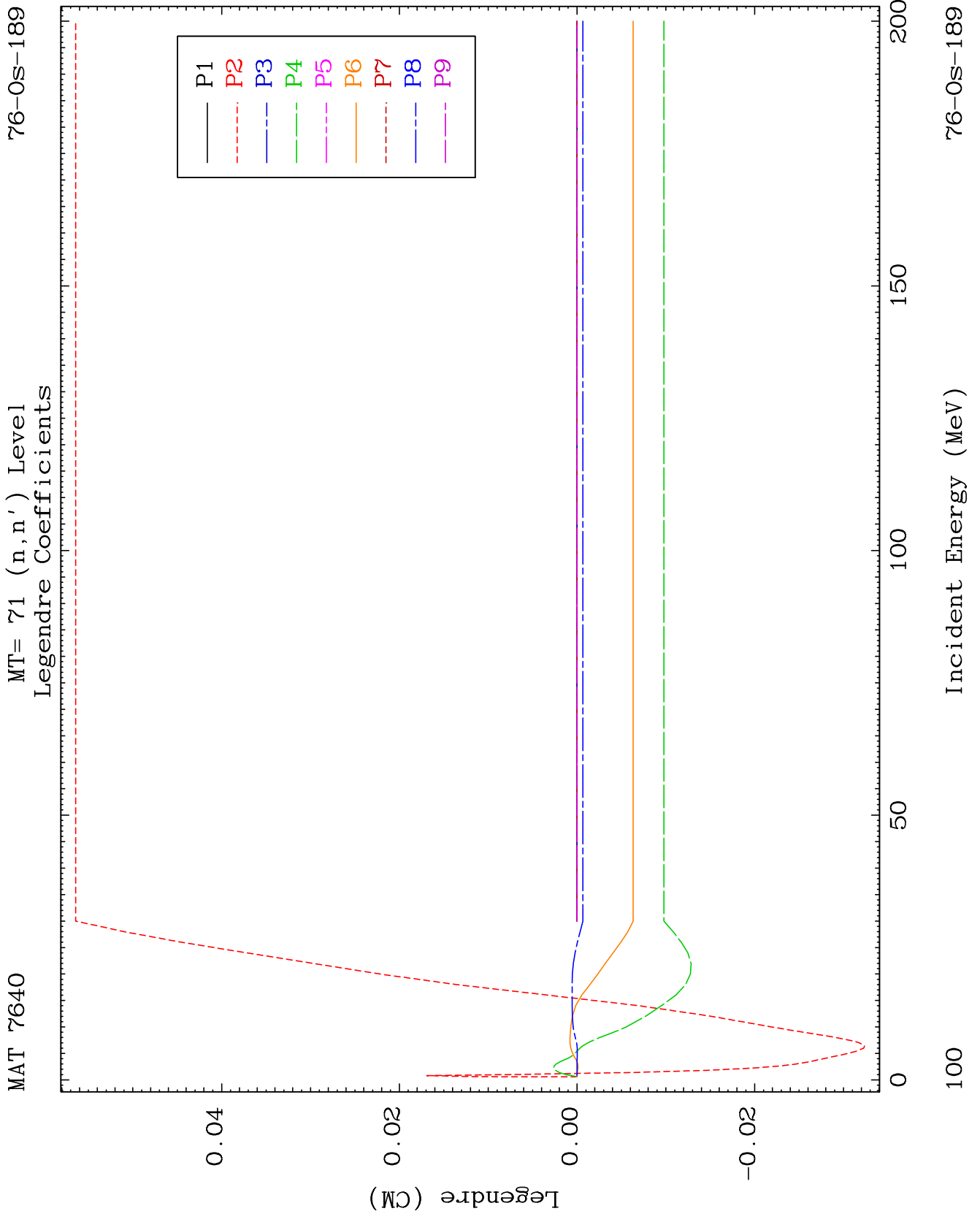
97

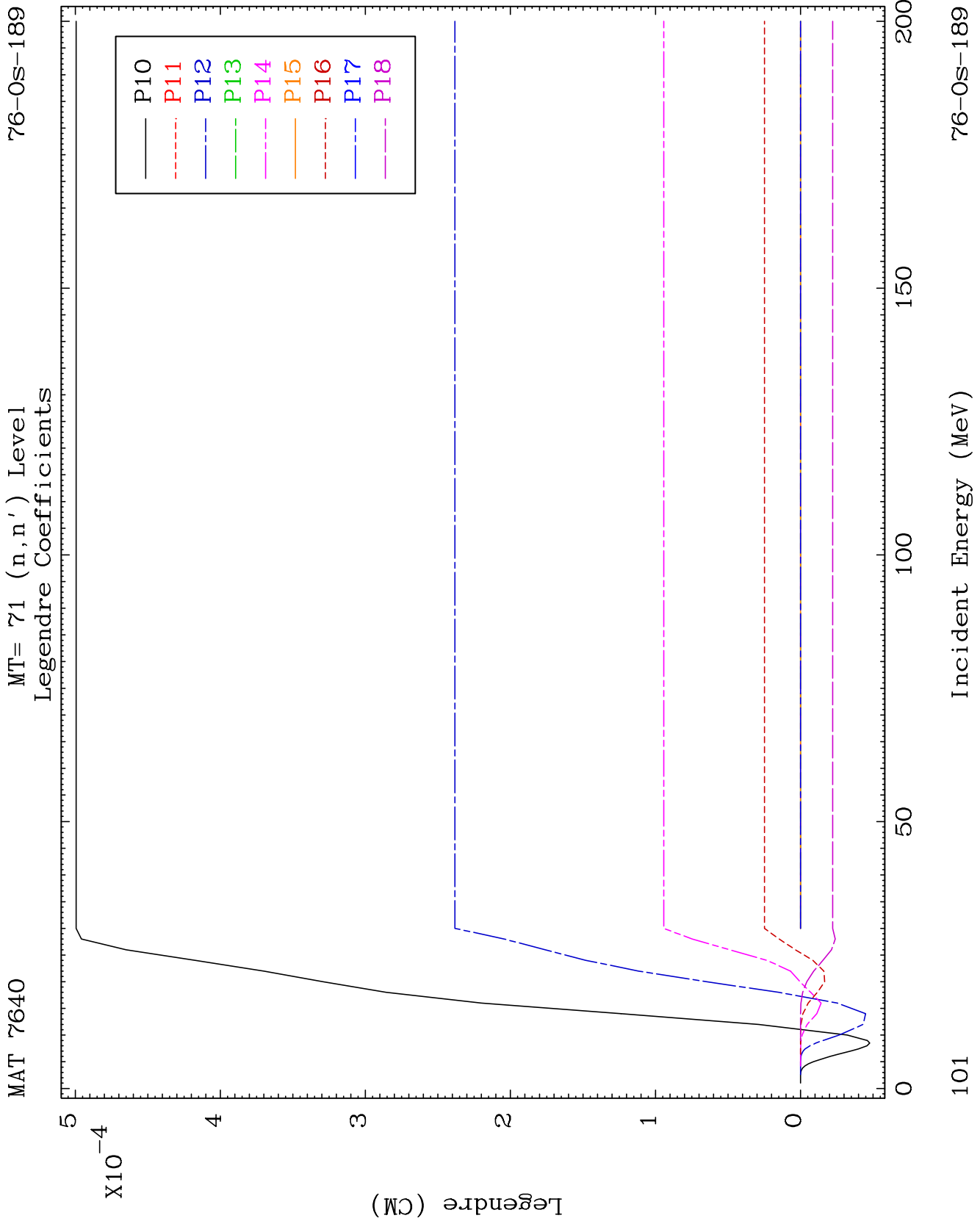
Incident Energy (MeV)

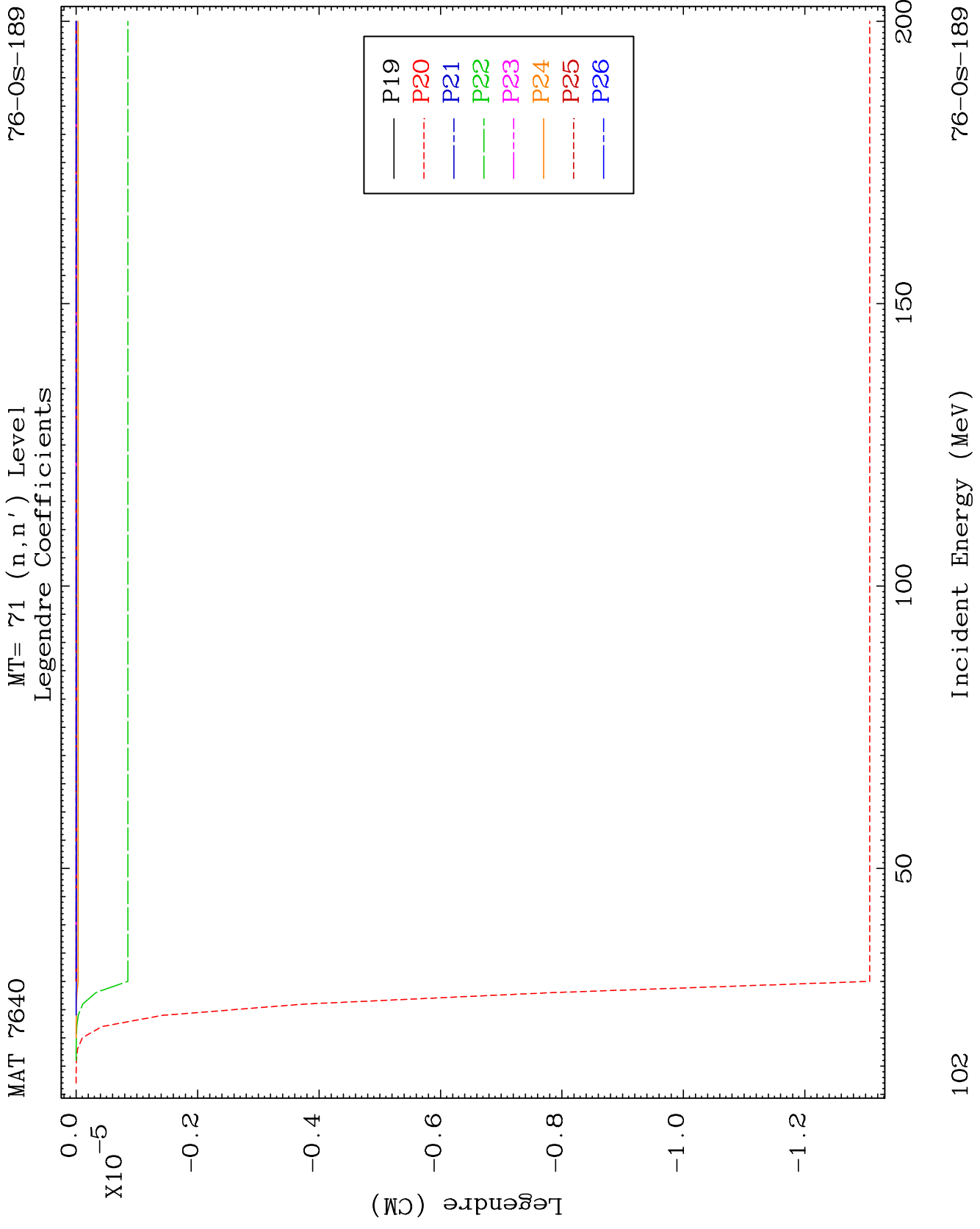
76-Os-189

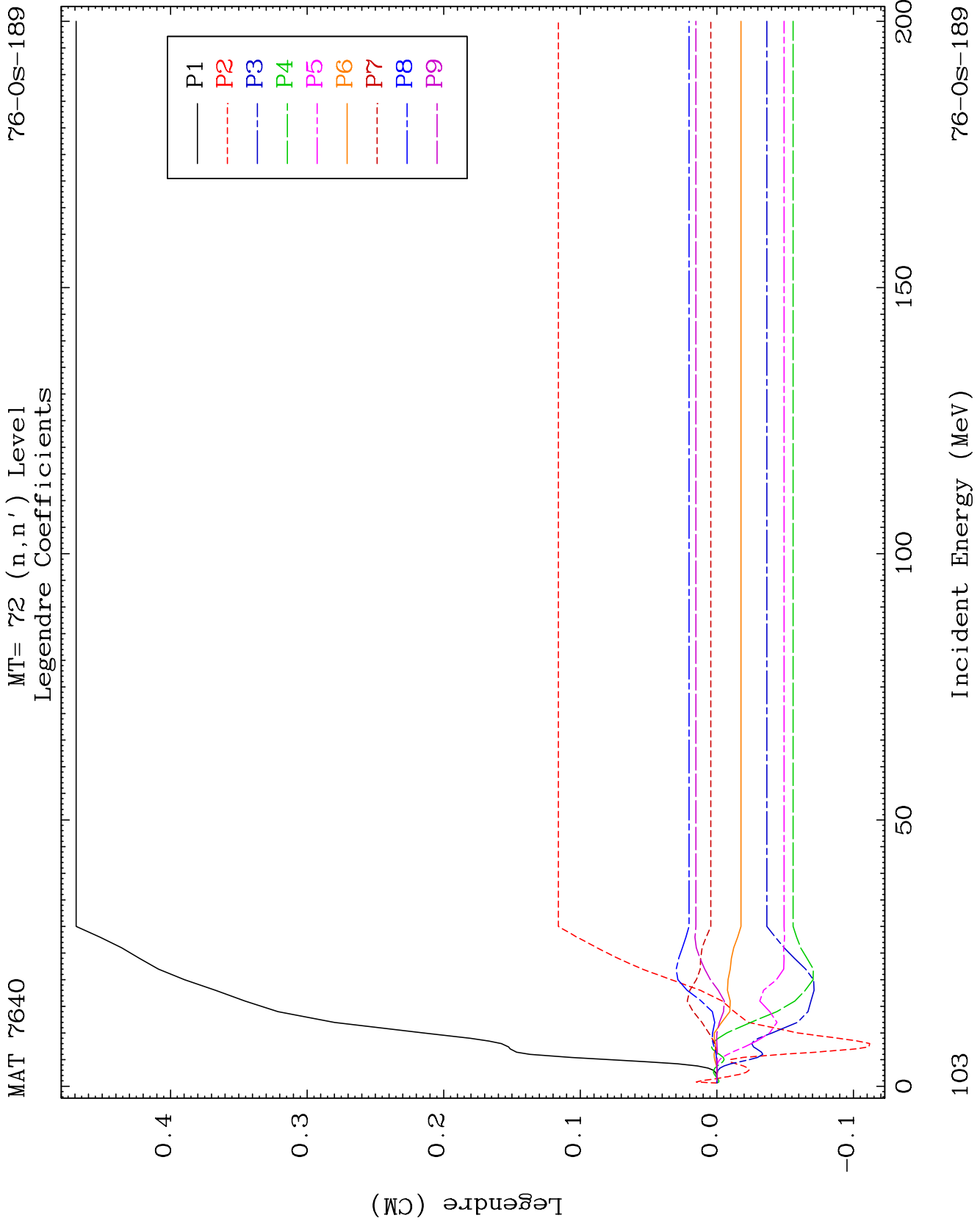










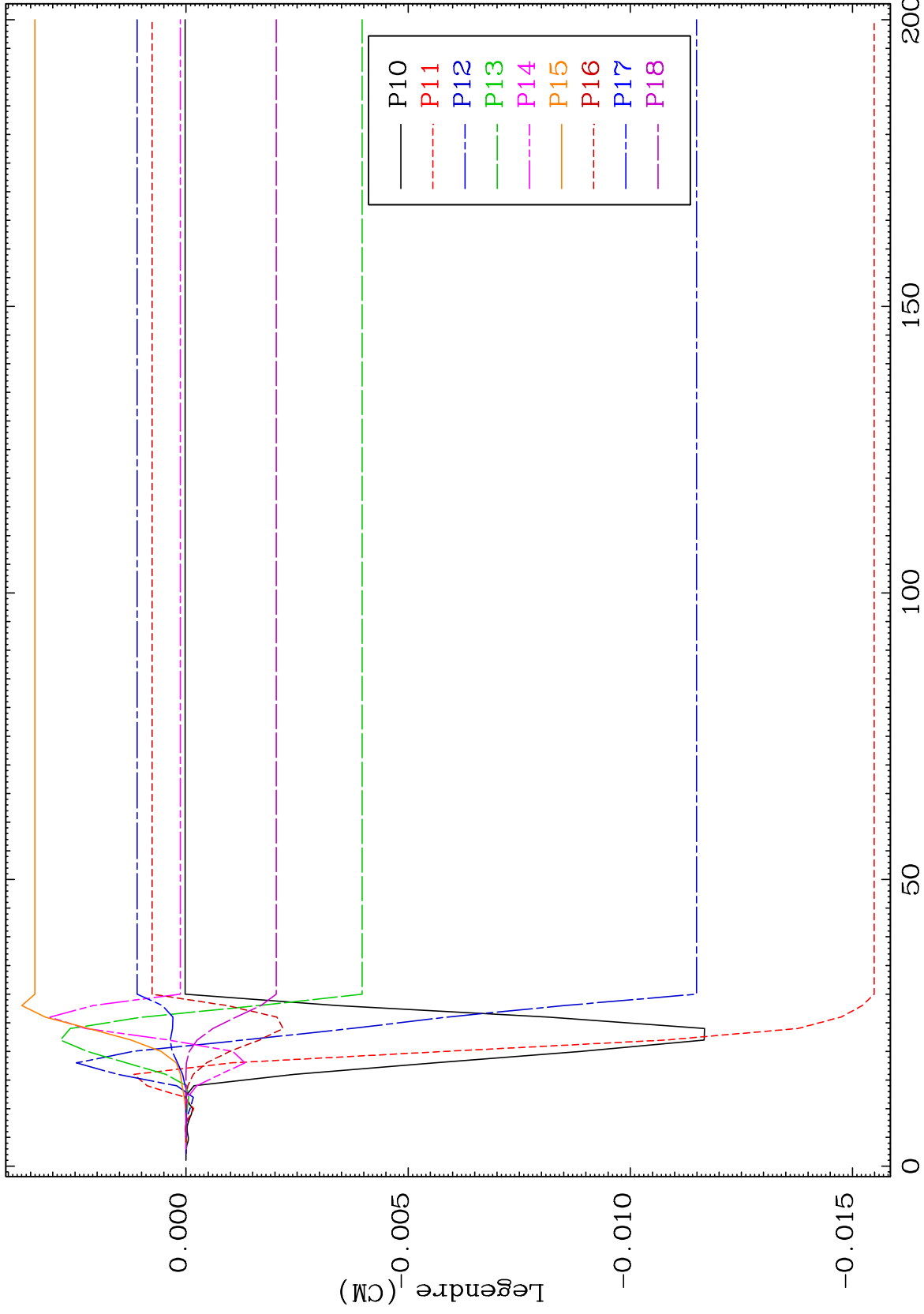




MAT 7640

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

76-Os-189



104

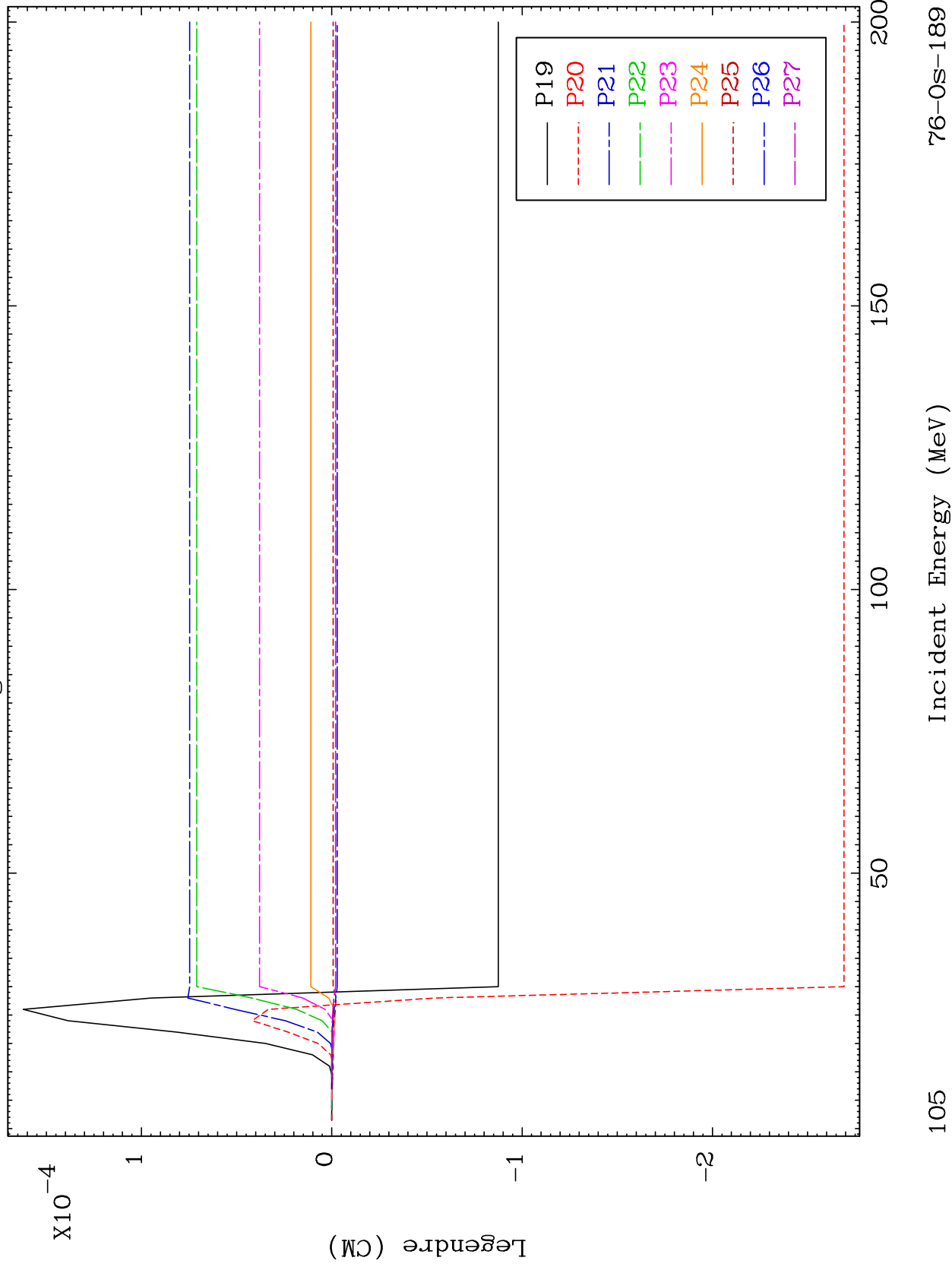
Incident Energy (MeV)

76-Os-189

MAT 7640

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

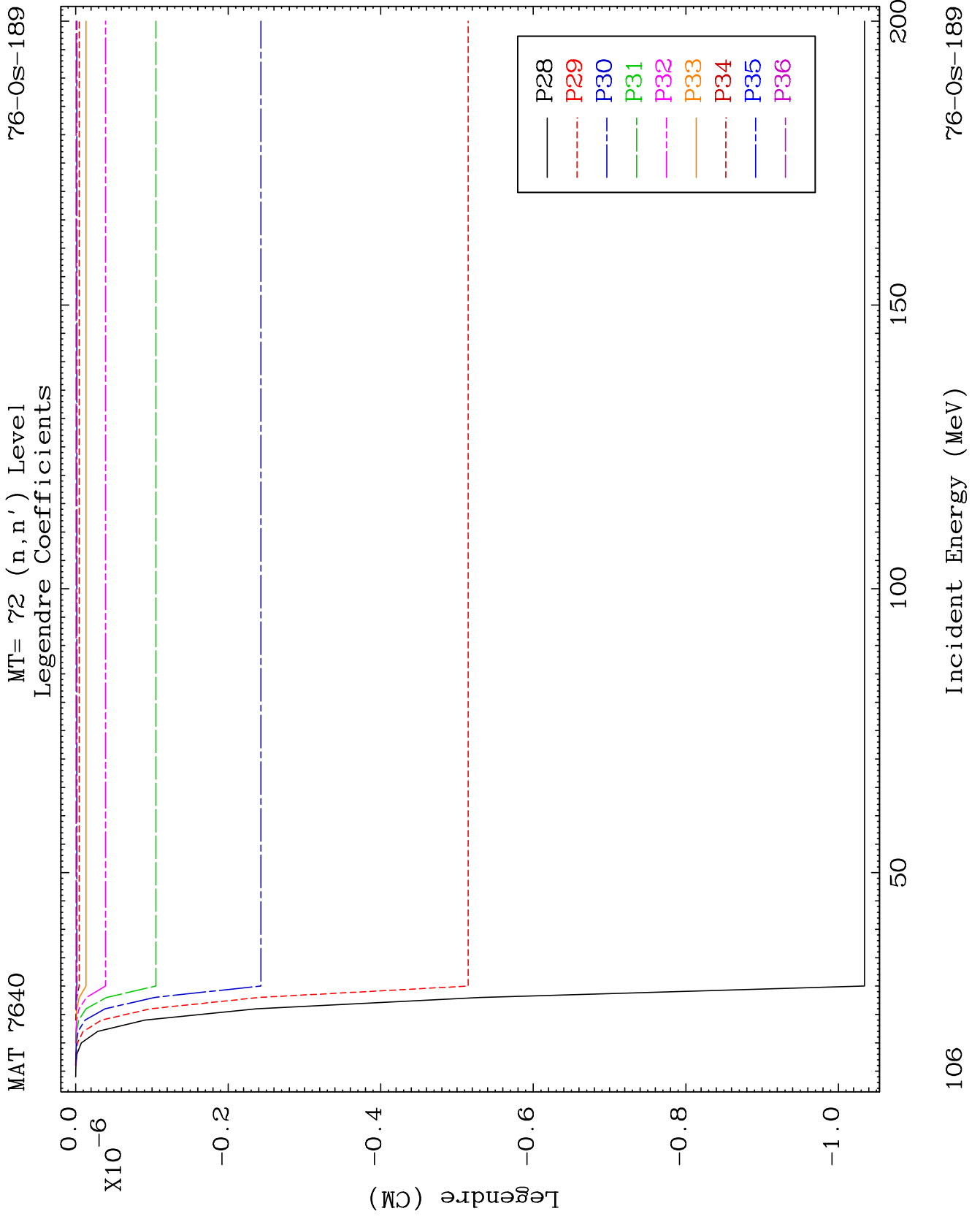
76-Os-189

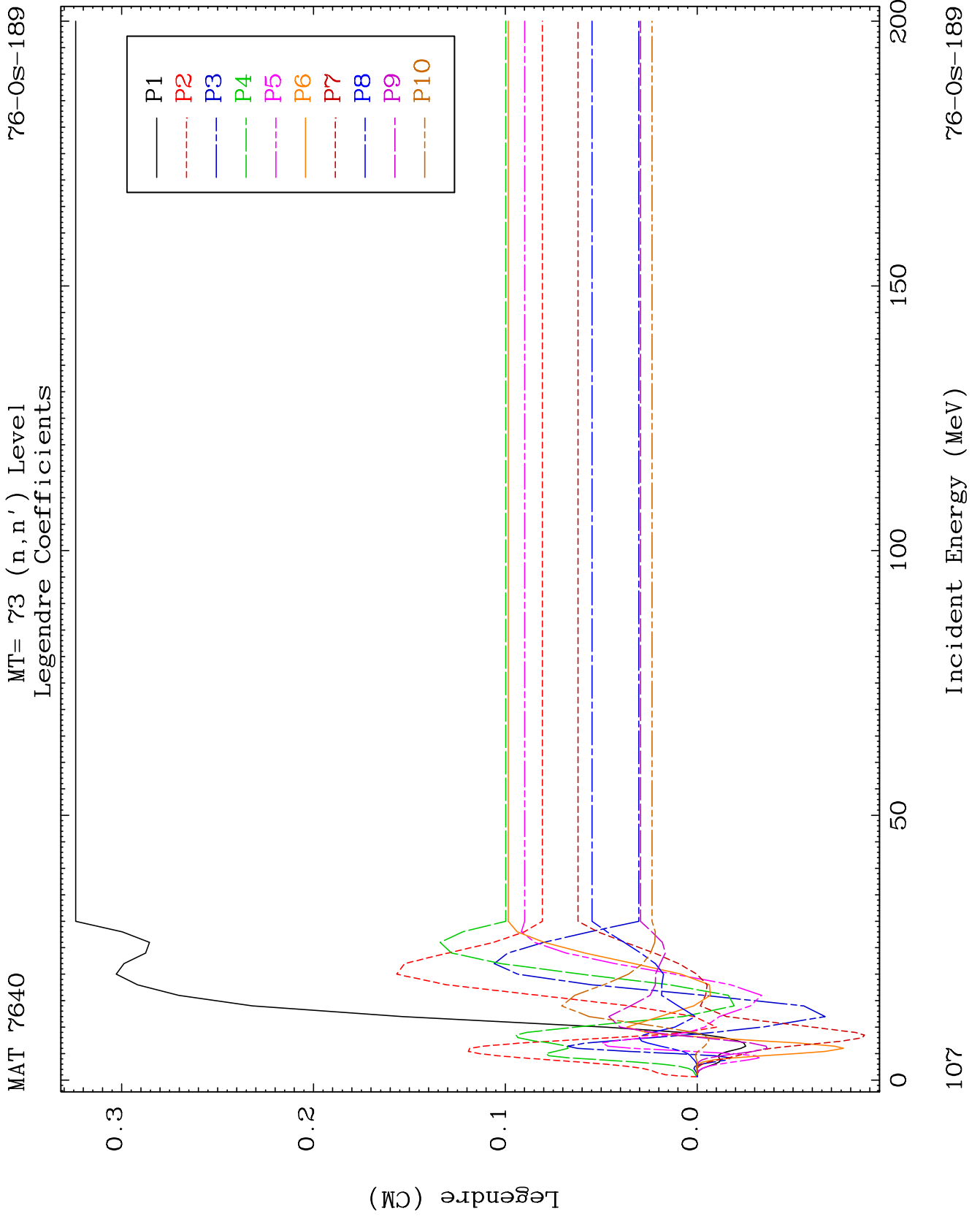


105

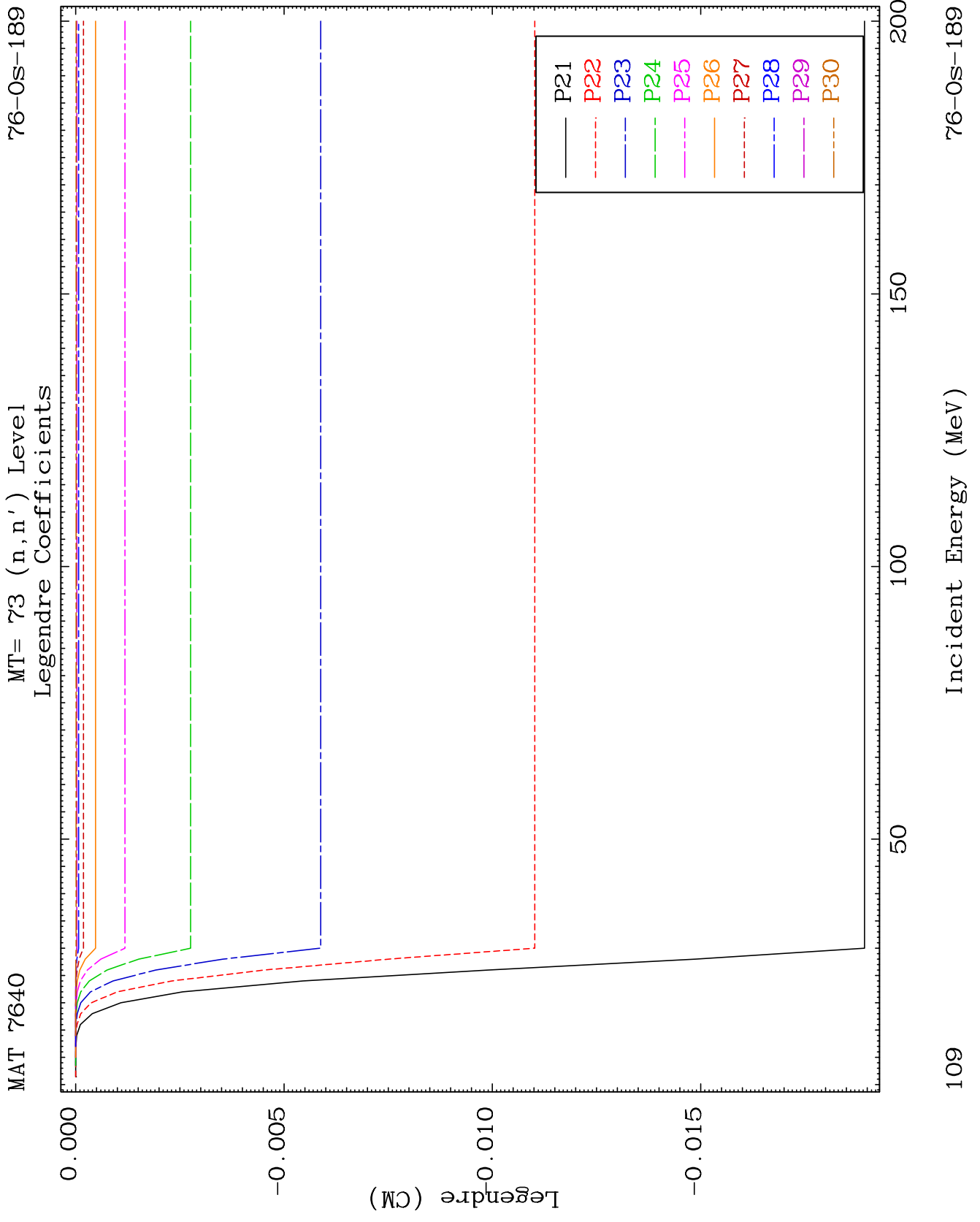
Incident Energy (MeV)

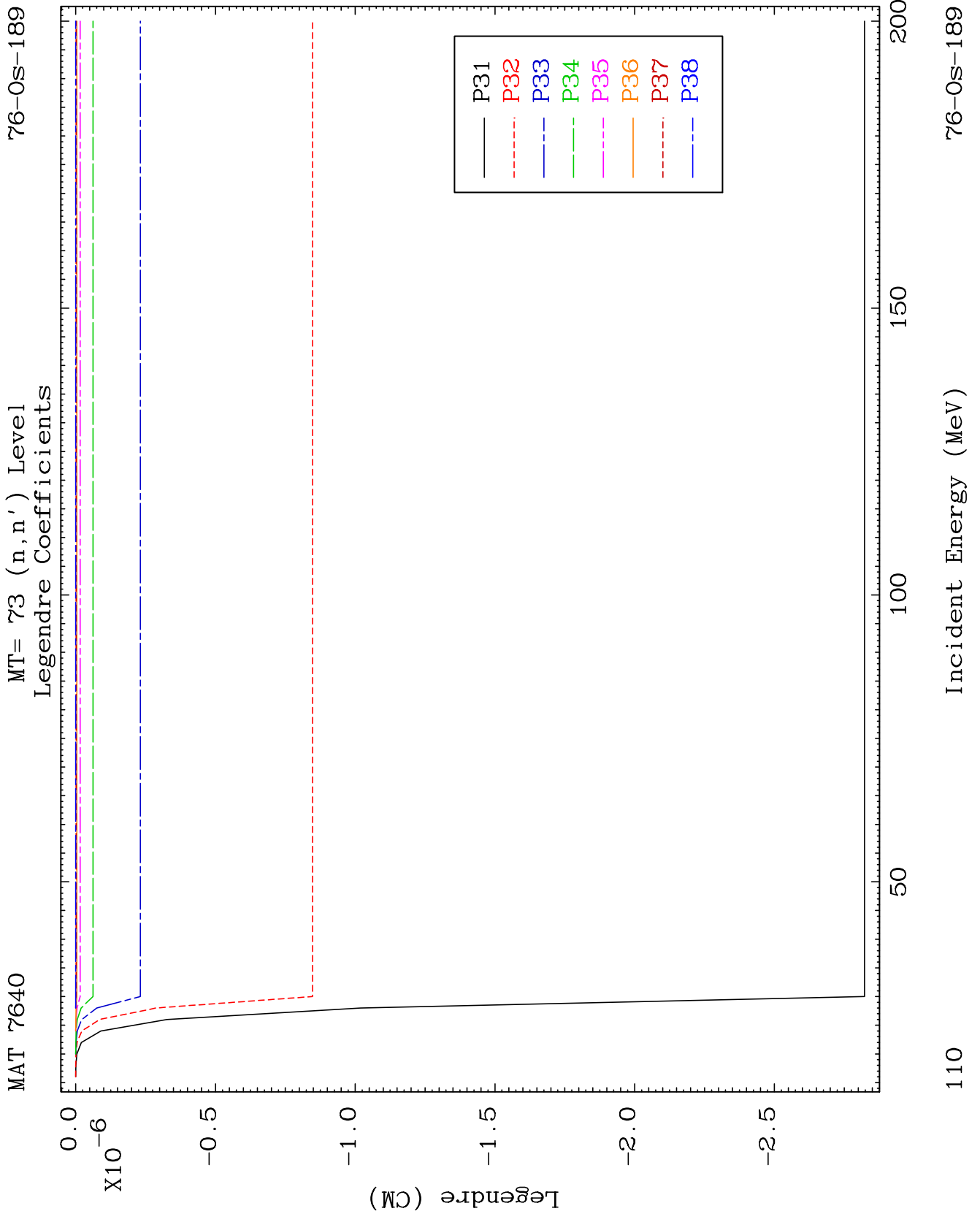
76-Os-189

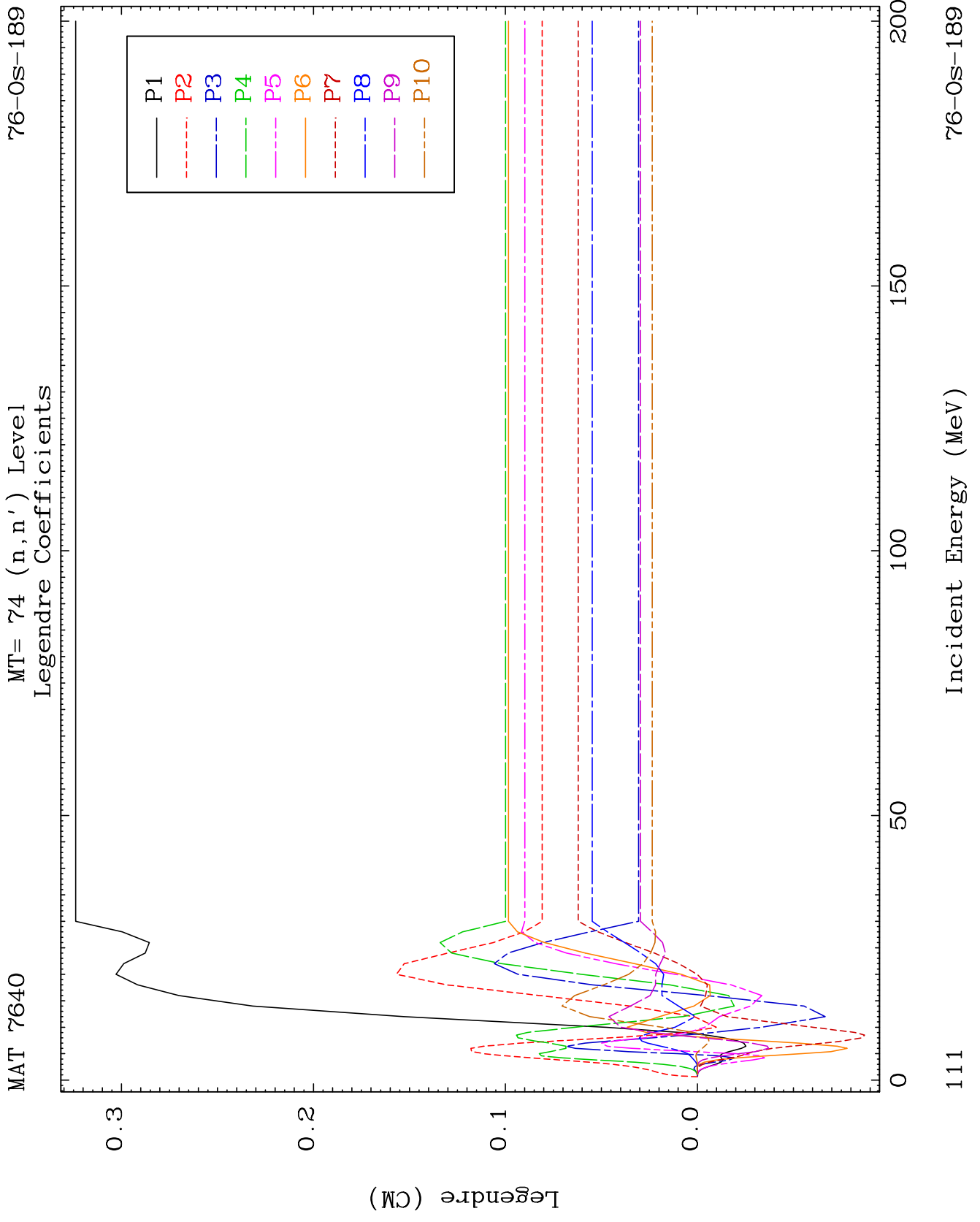




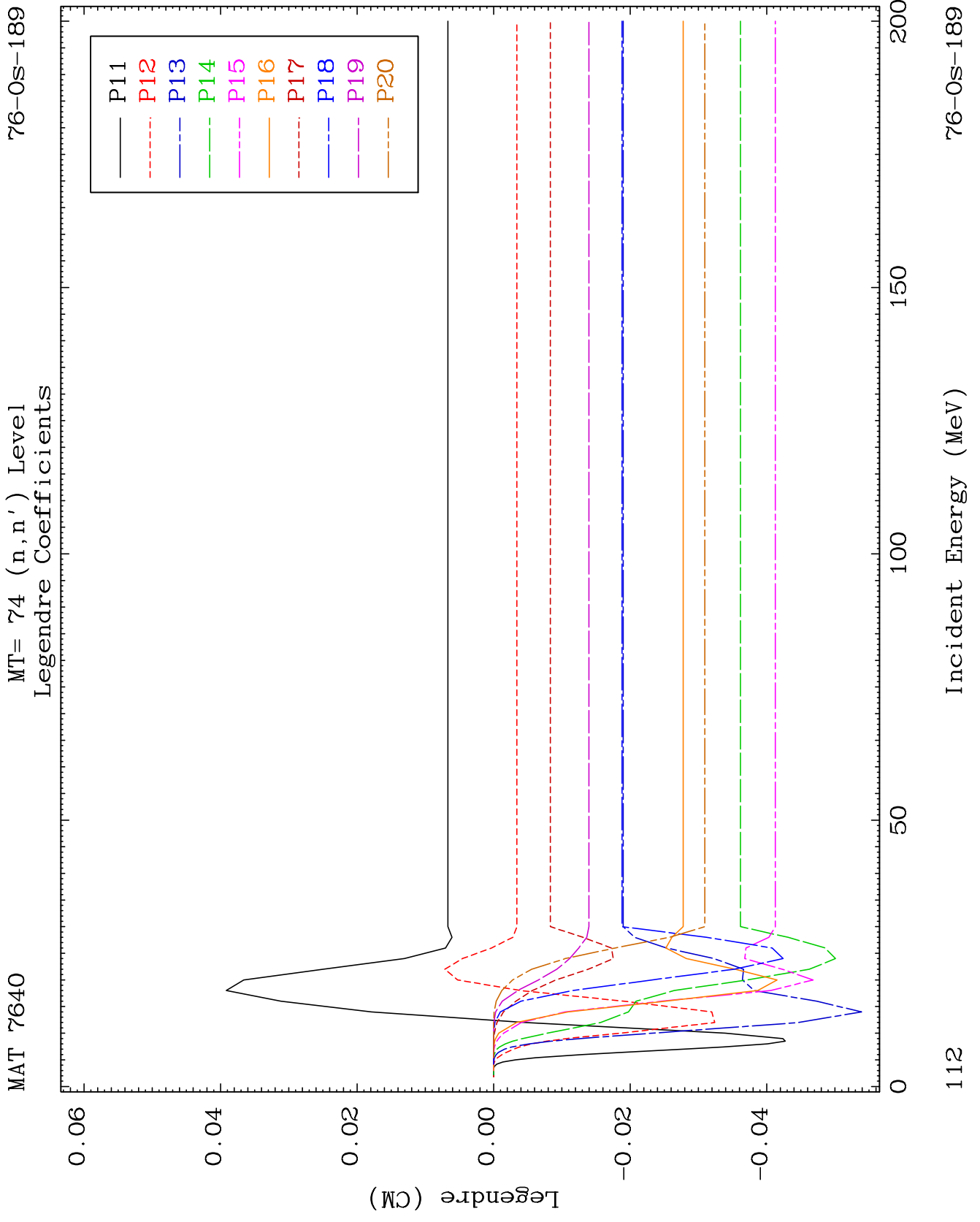


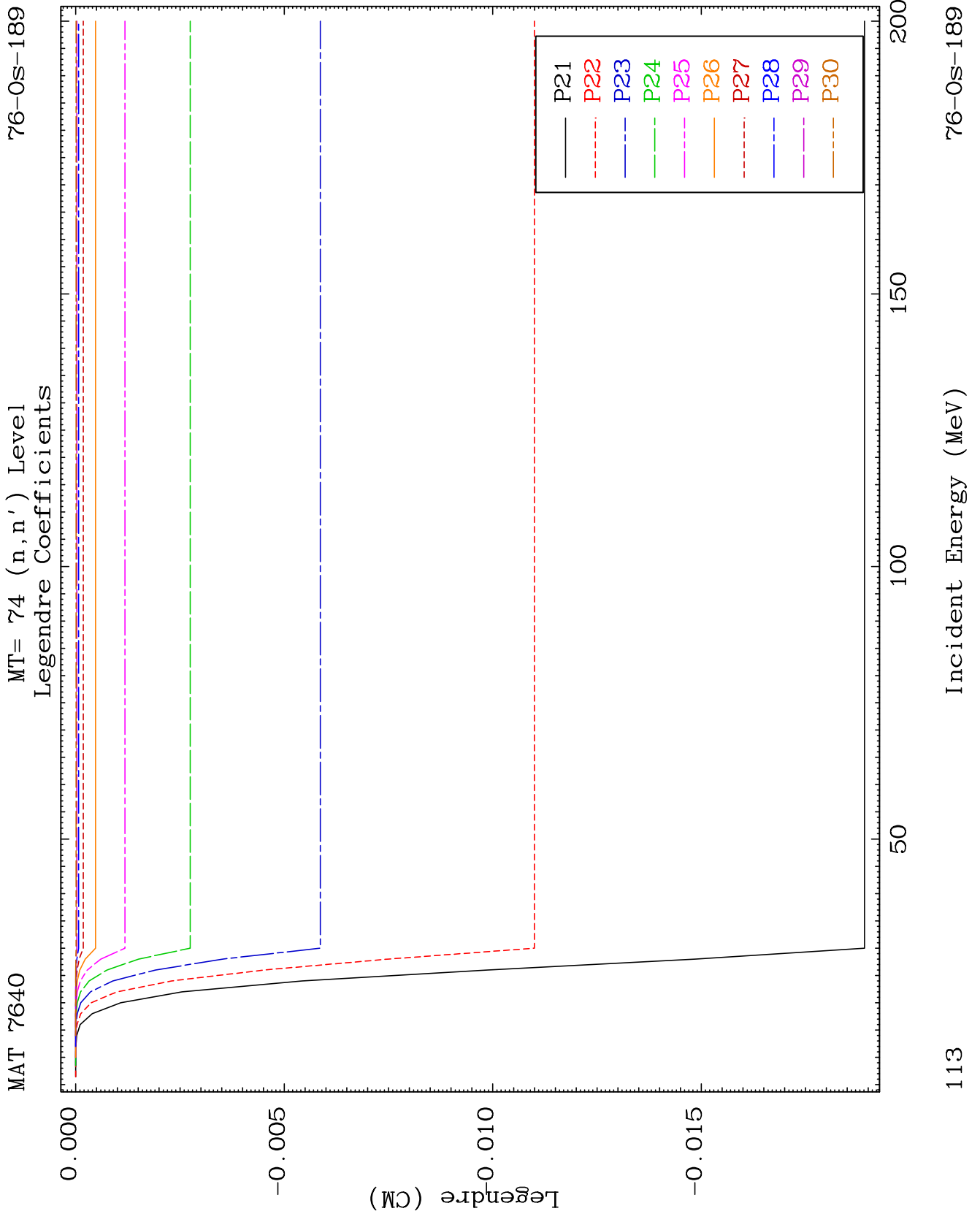


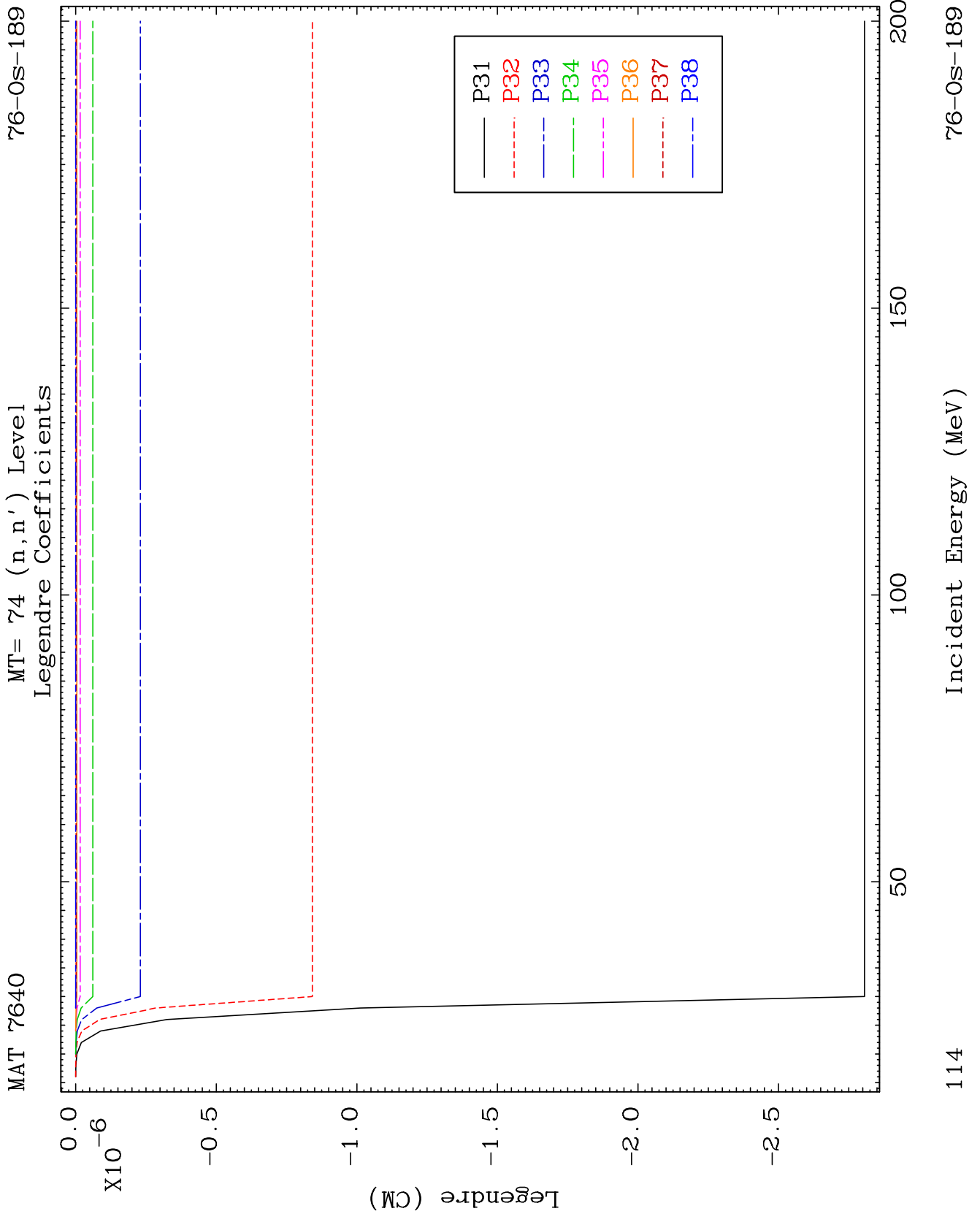


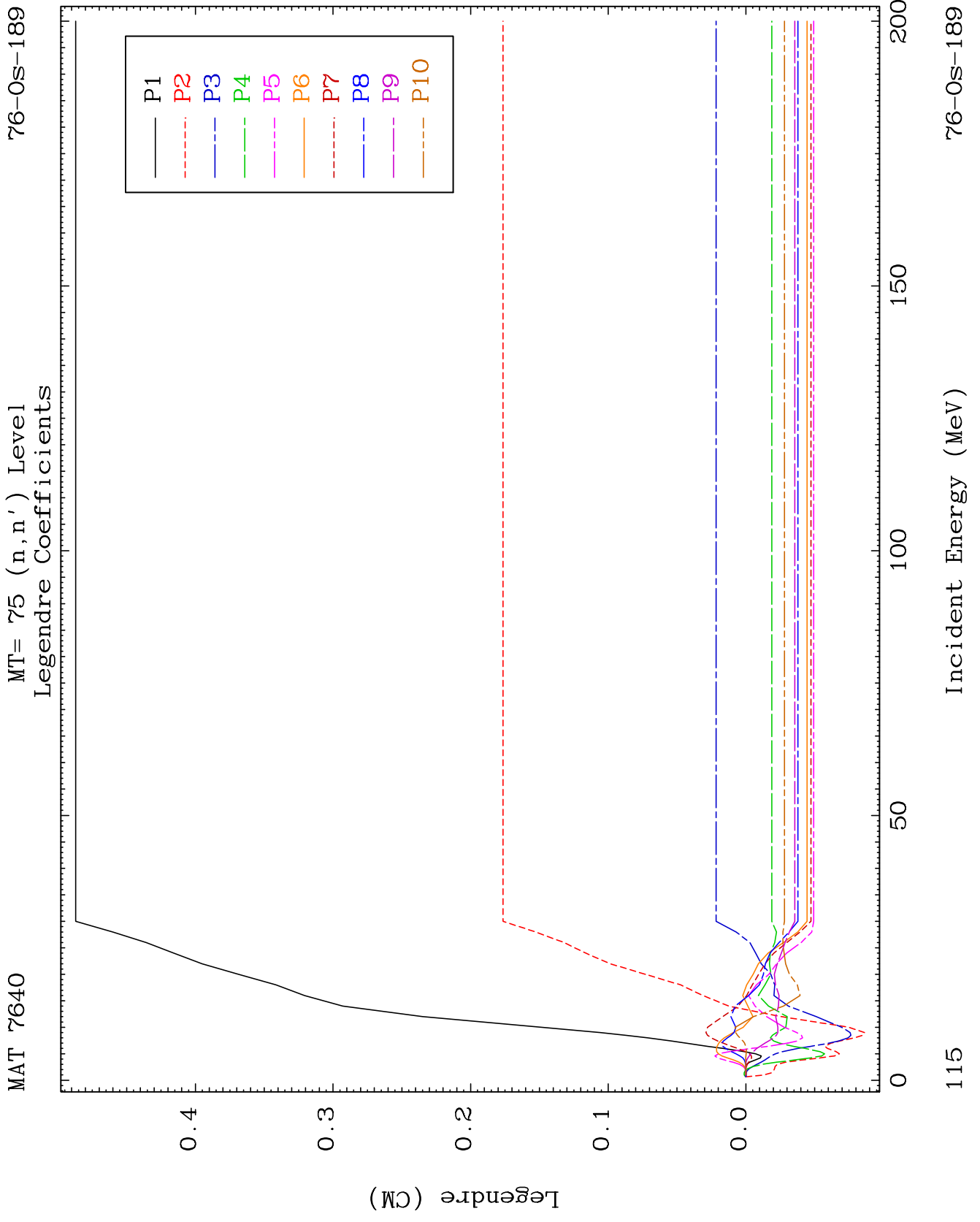








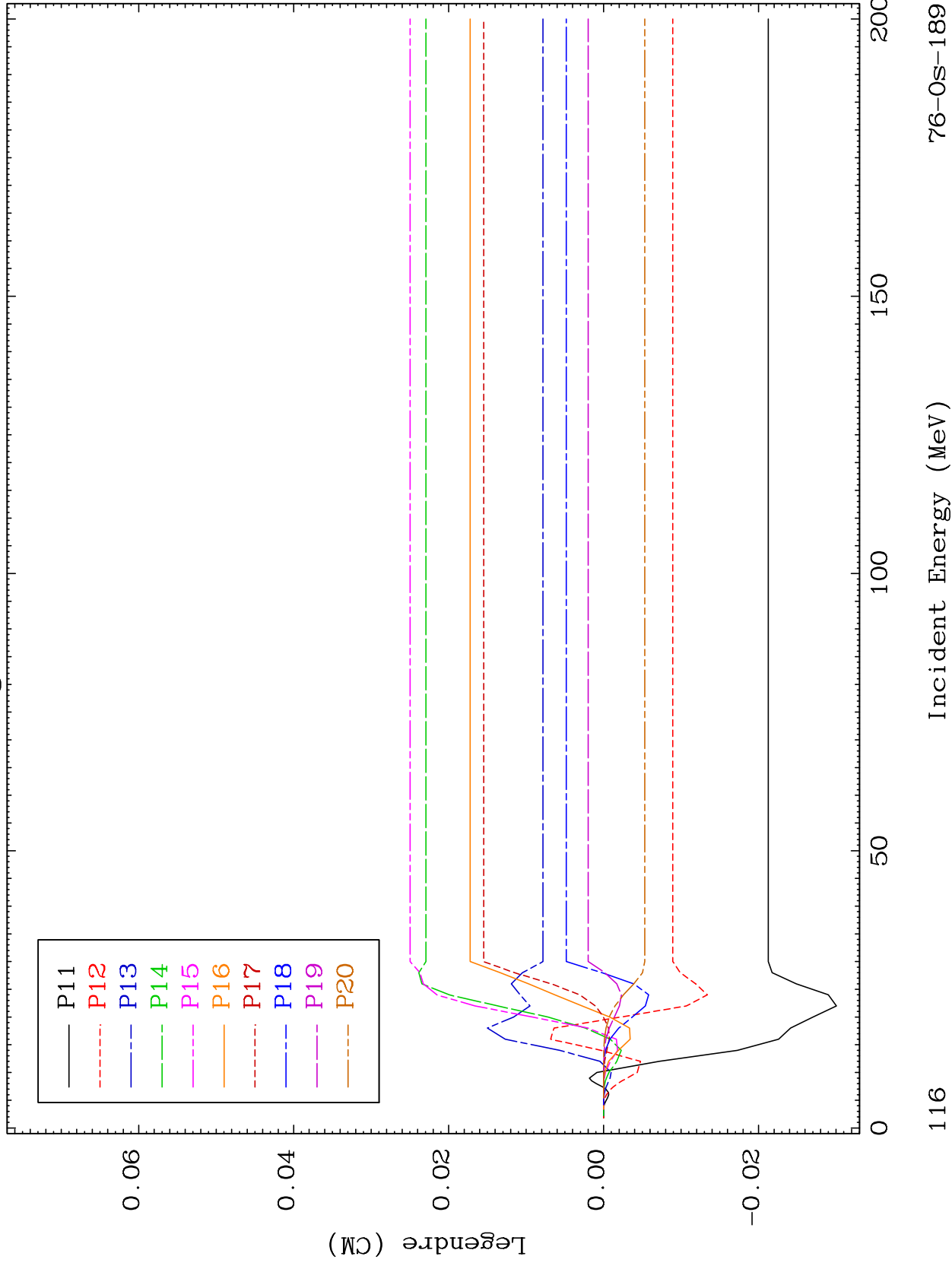




MAT 7640

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

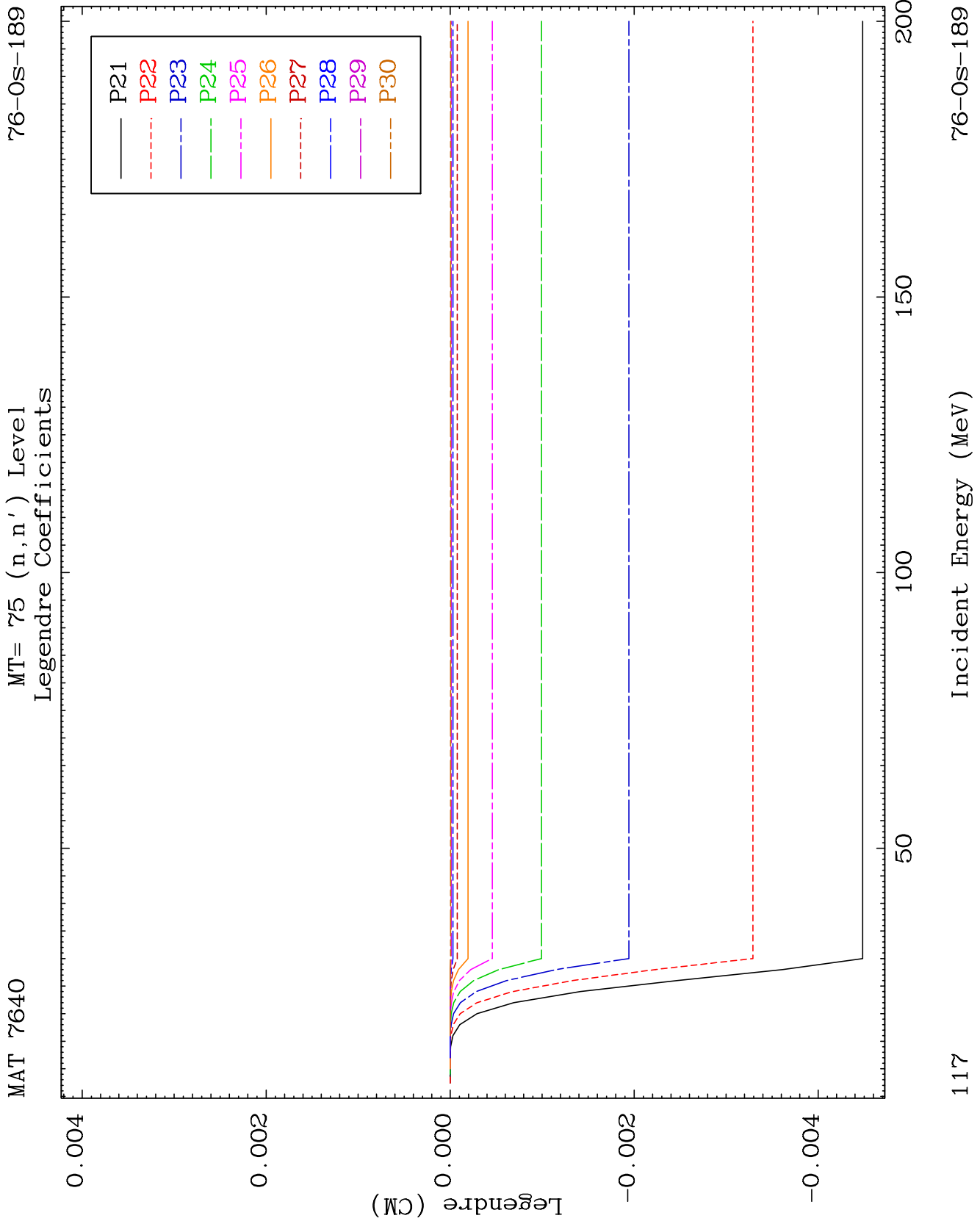
76-Os-189

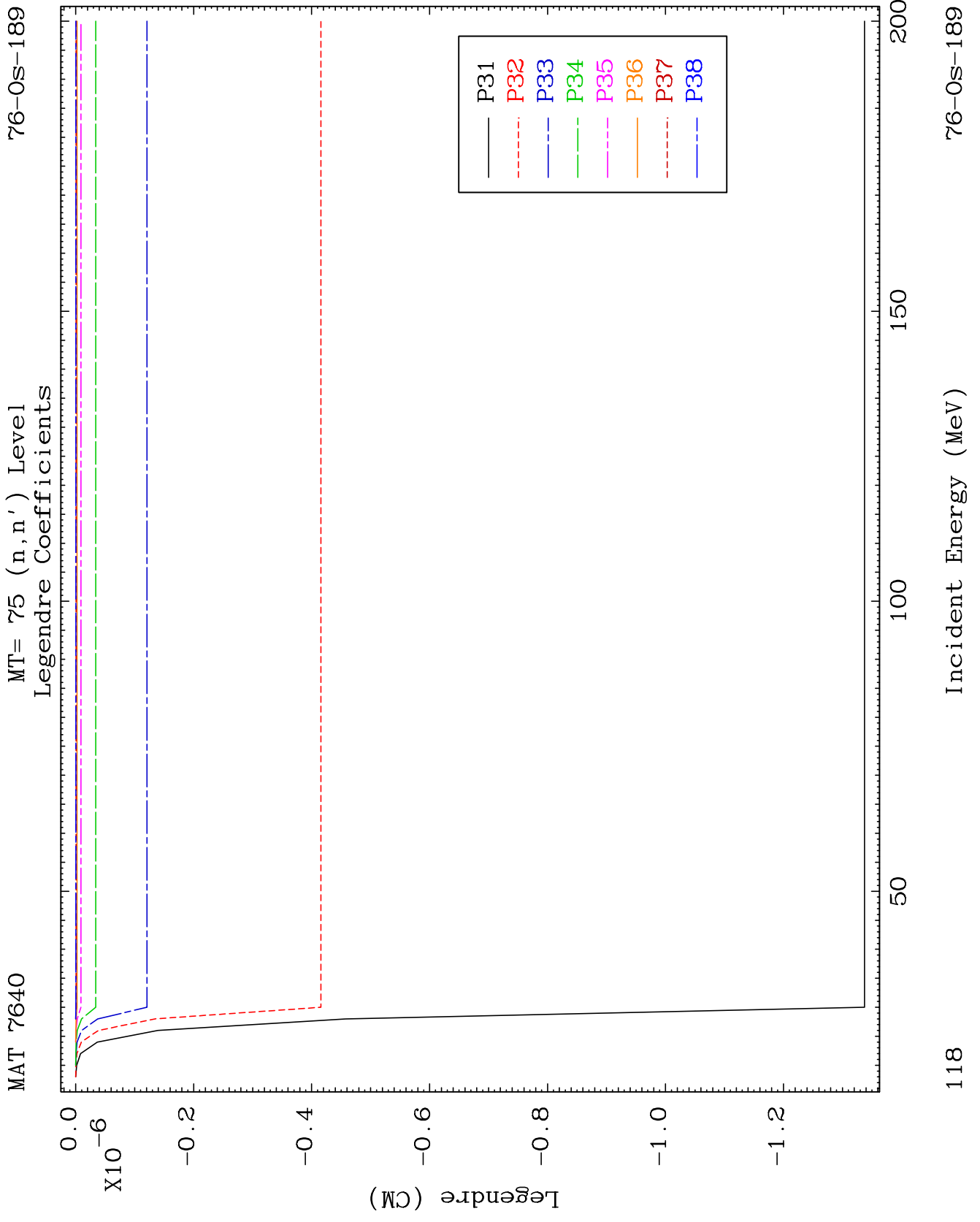


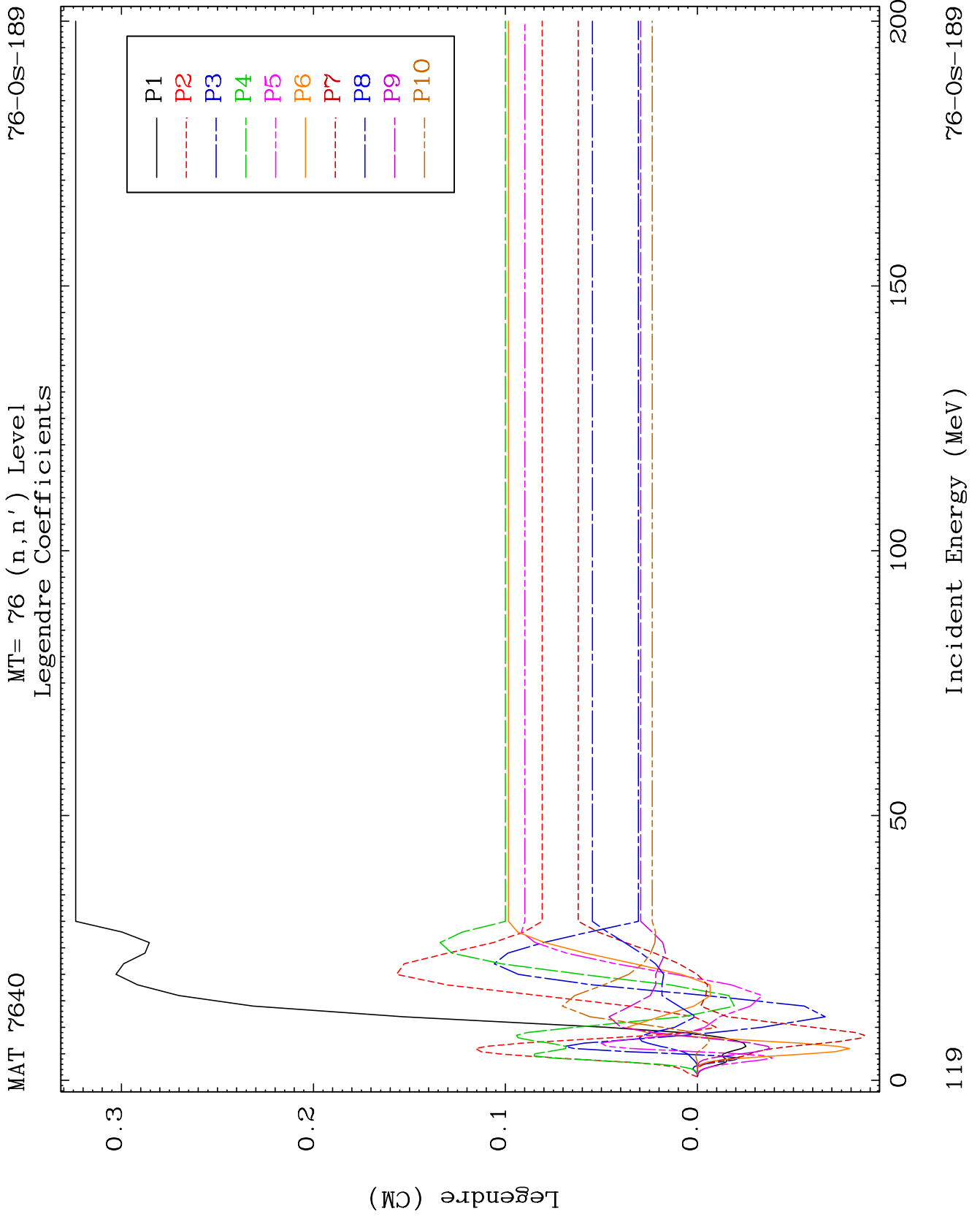
116

Incident Energy (MeV)

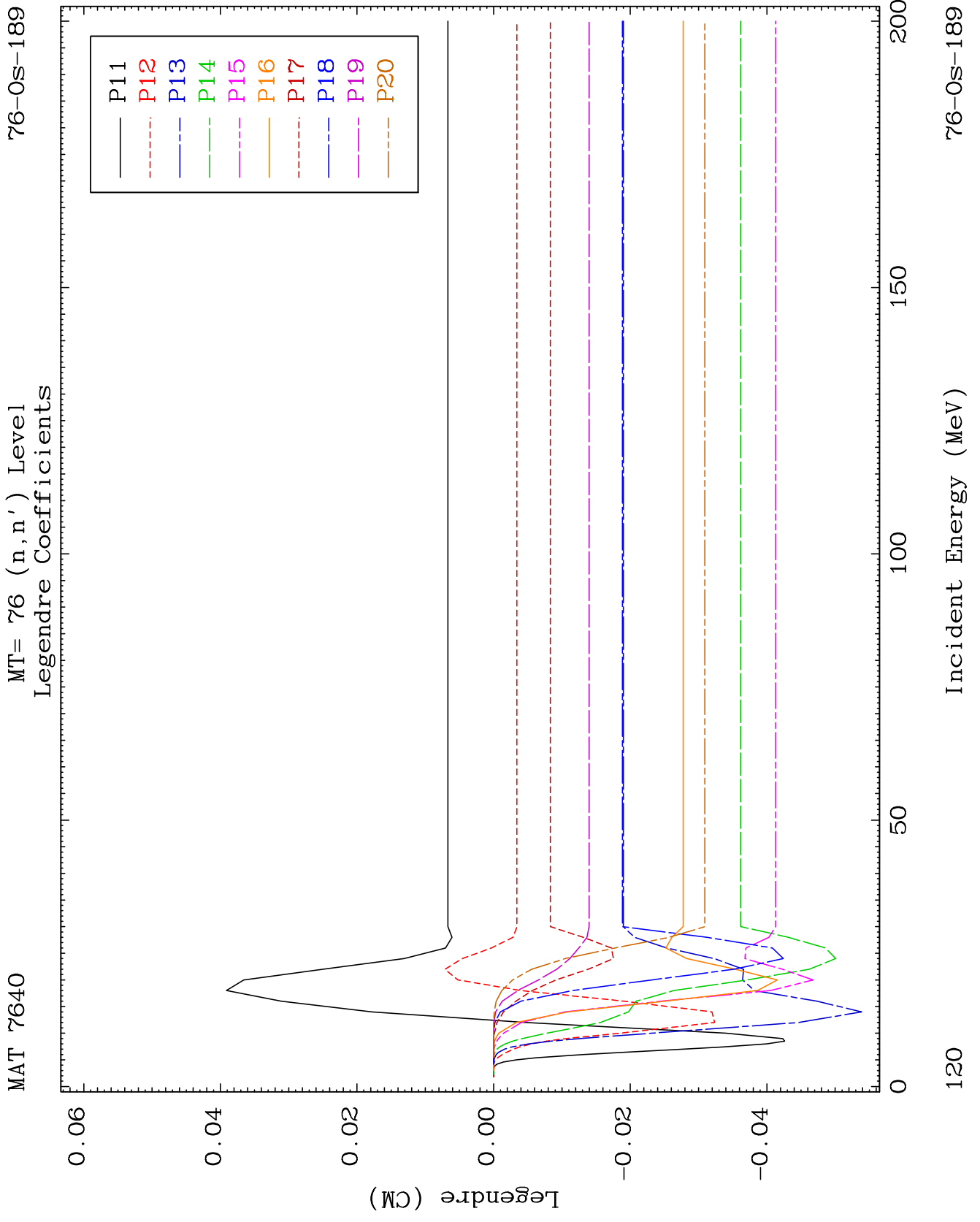
76-Os-189

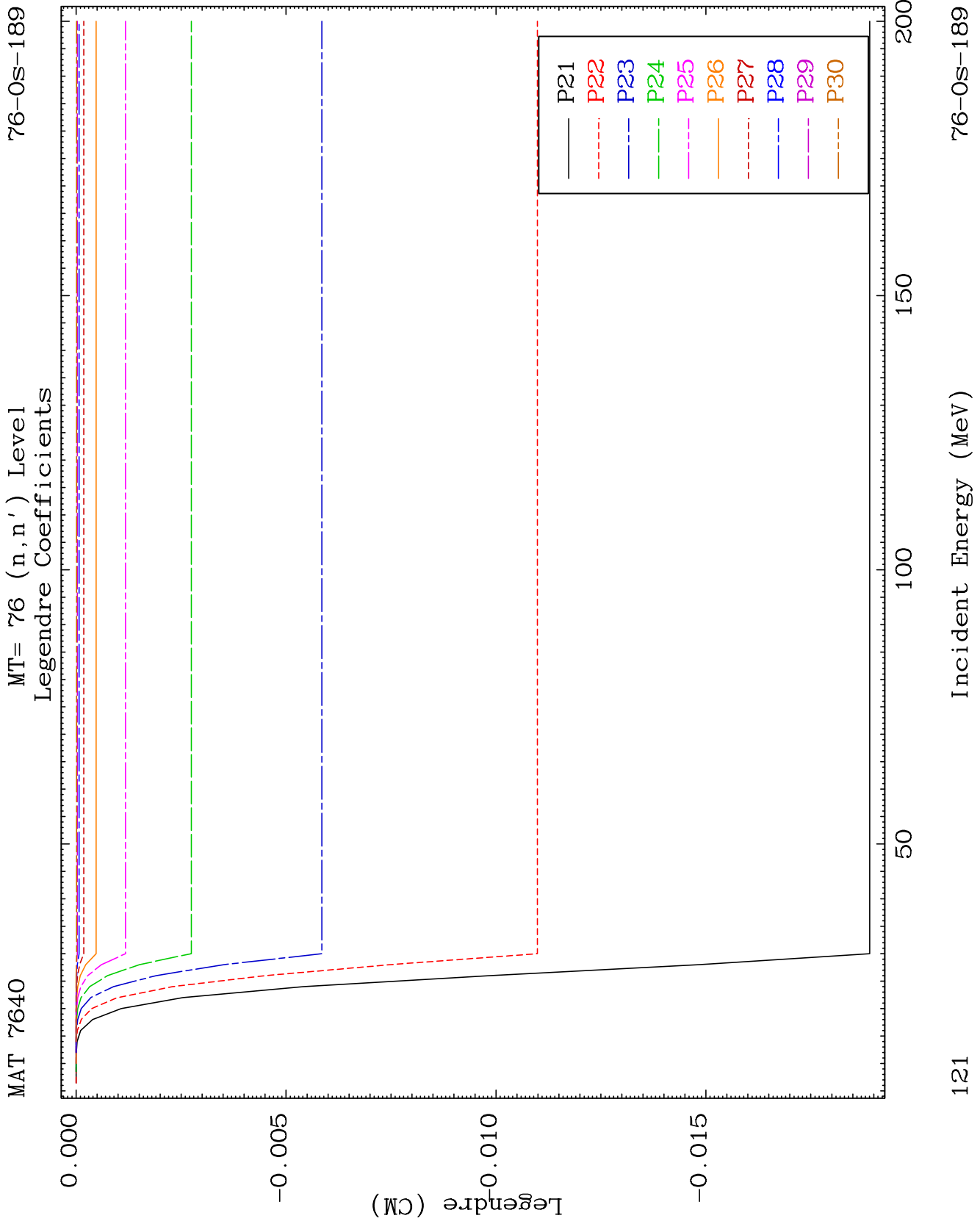


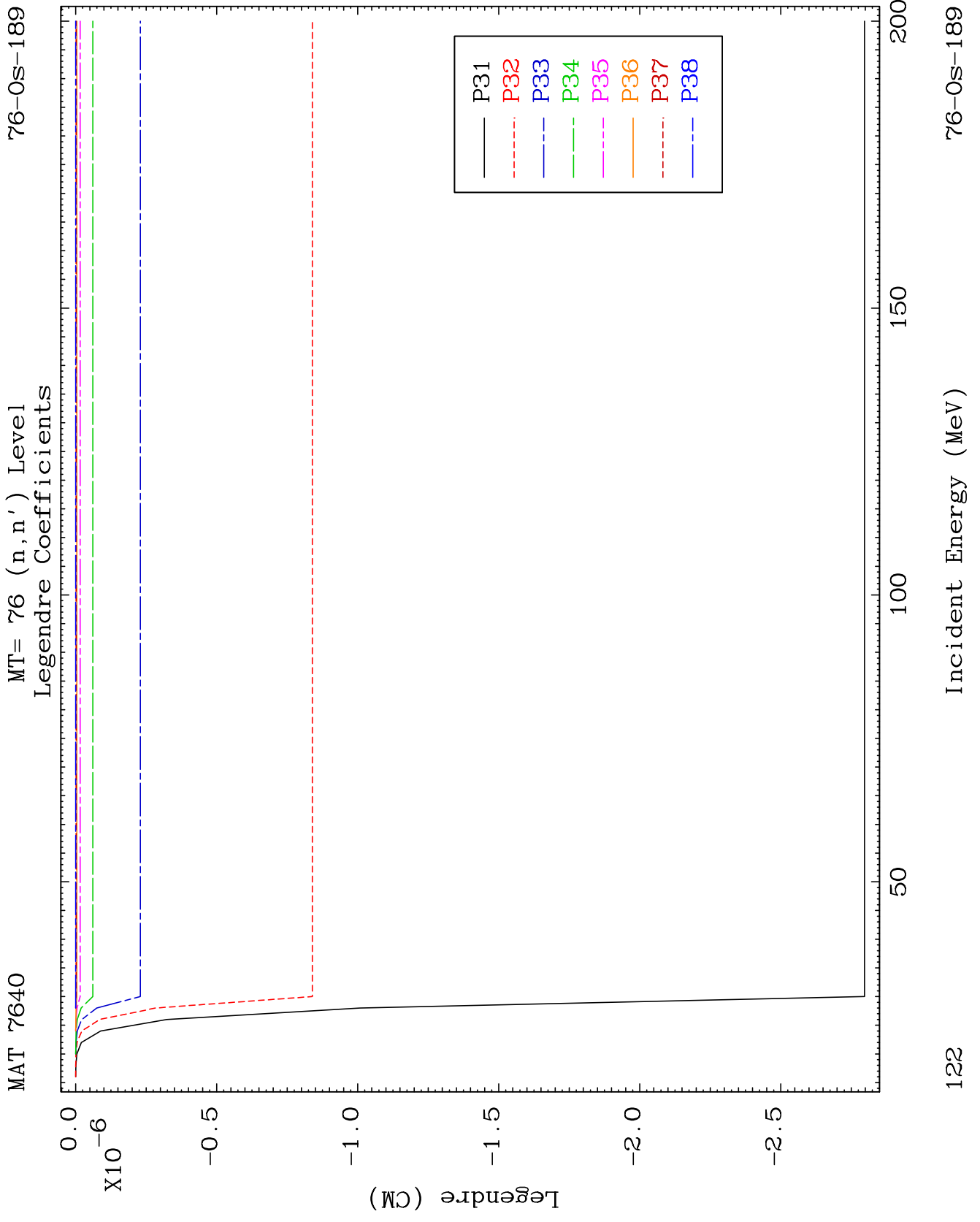








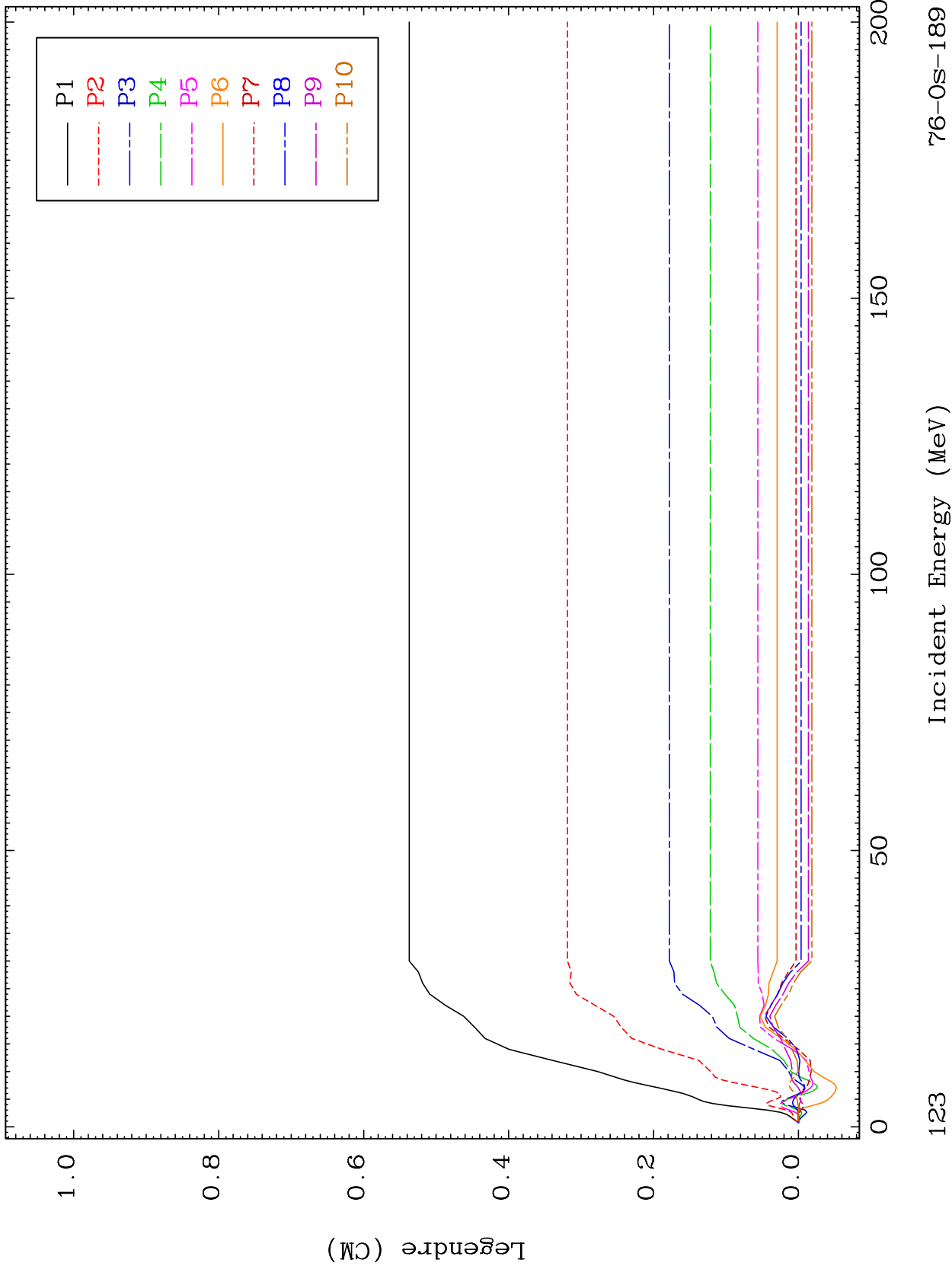




MAT 7640

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

76-Os-189

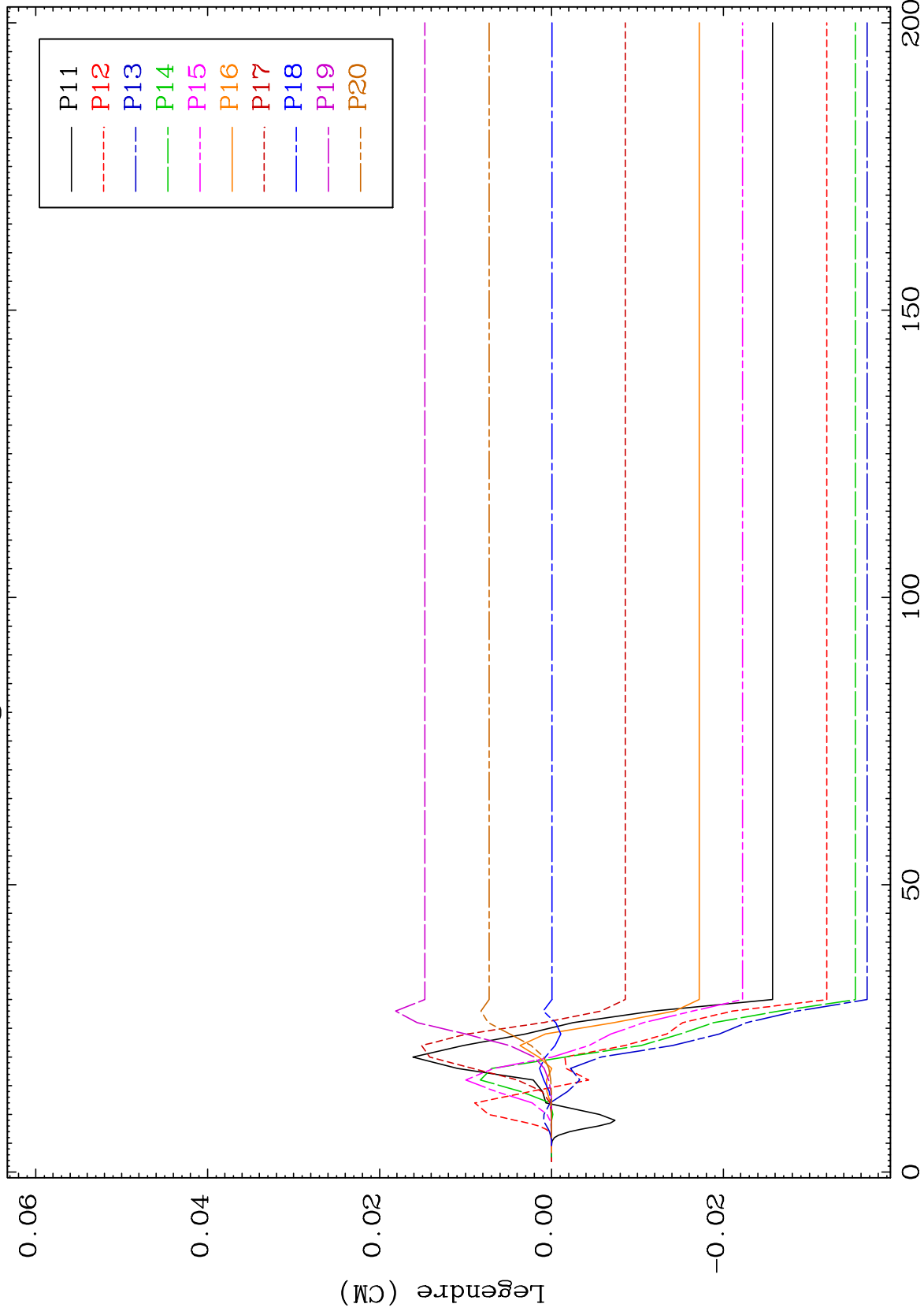


123

MAT 7640

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

76-Os-189



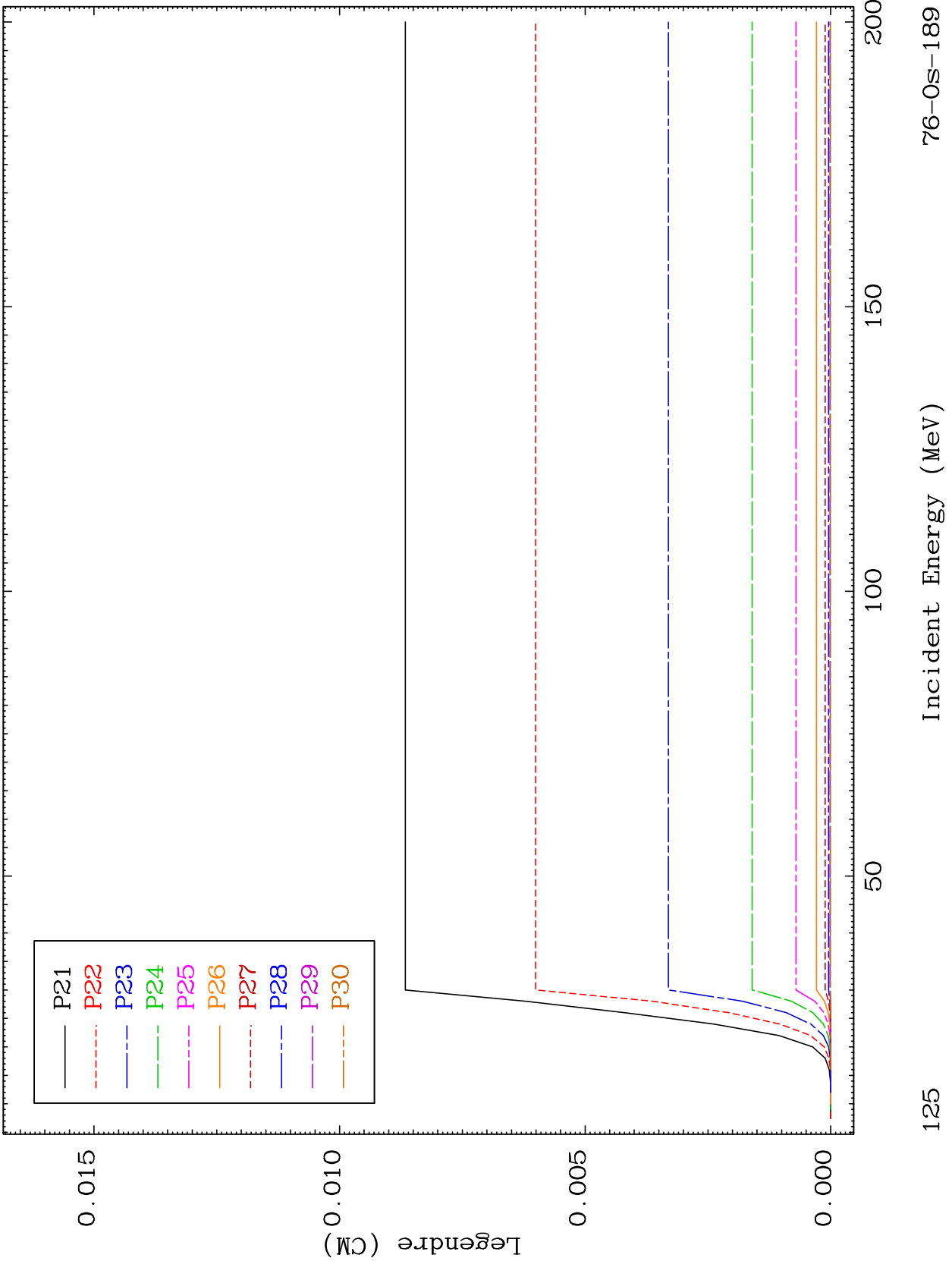
124

76-Os-189

MAT 7640

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

76-Os-189



125

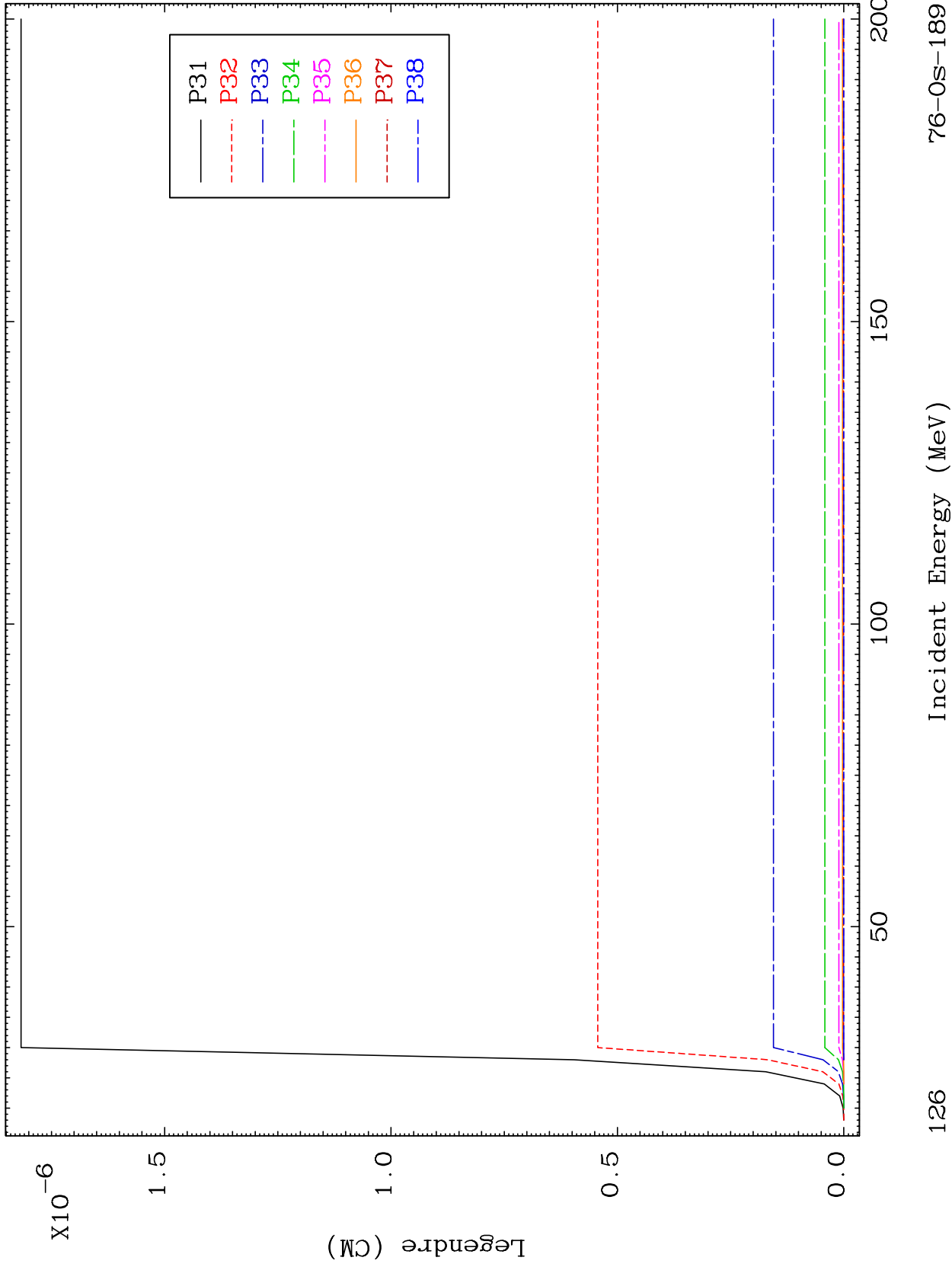
Incident Energy (MeV)

76-Os-189

MAT 7640

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

76-Os-189



126

Incident Energy (MeV)

76-Os-189



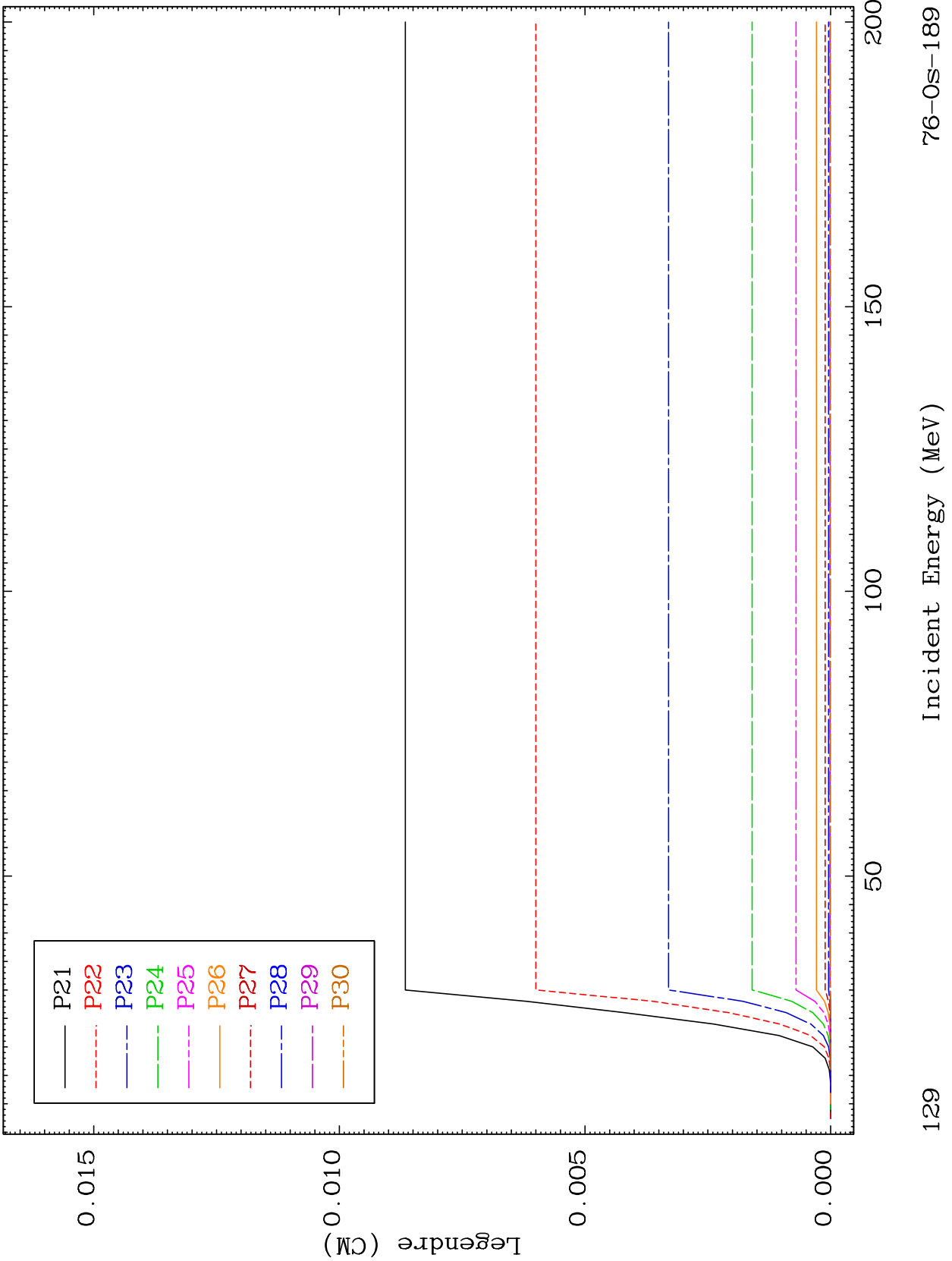




MAT 7640

MT= 78 (n,n') Level  
Legendre Coefficients

76-Os-189



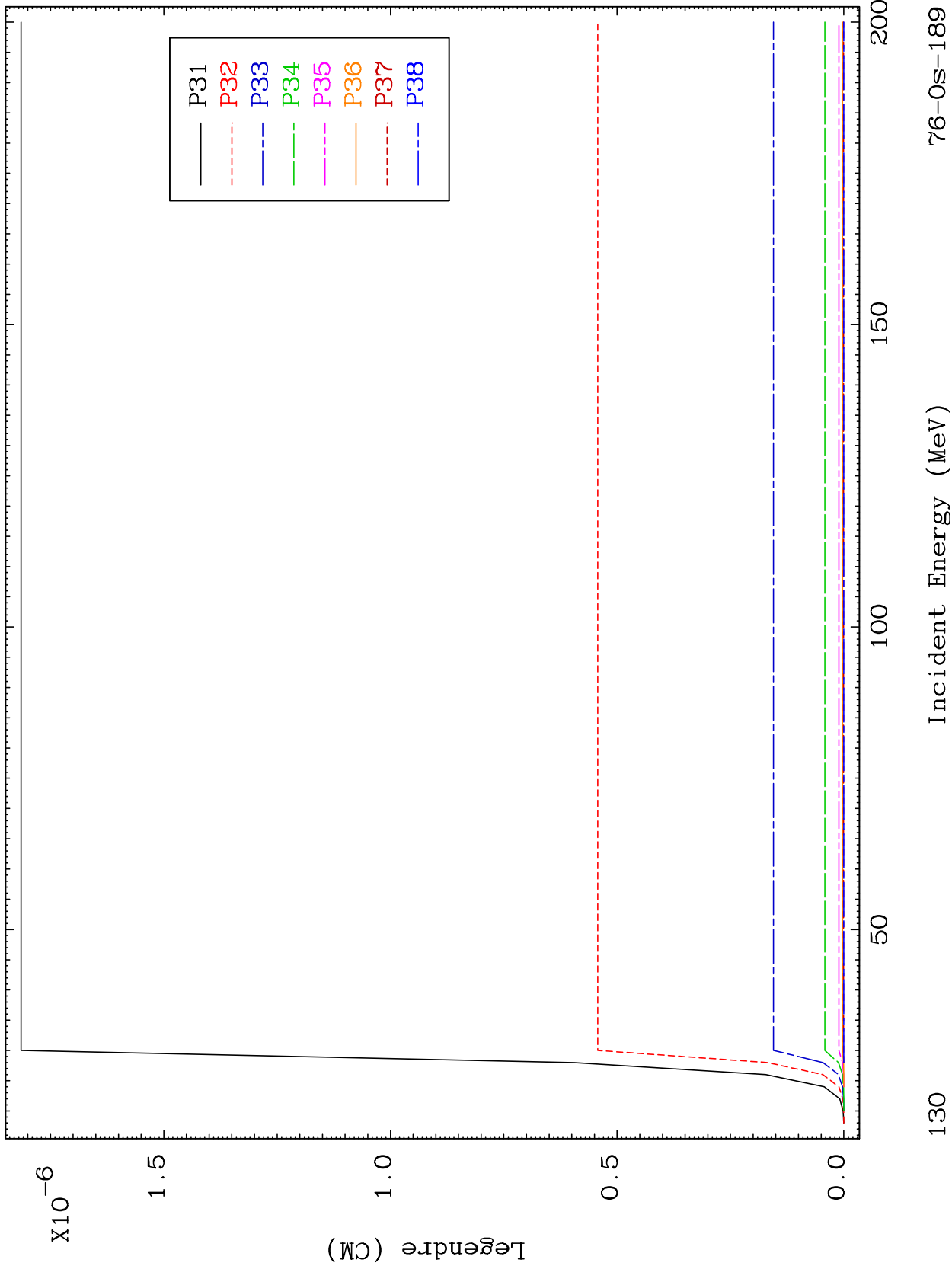
129

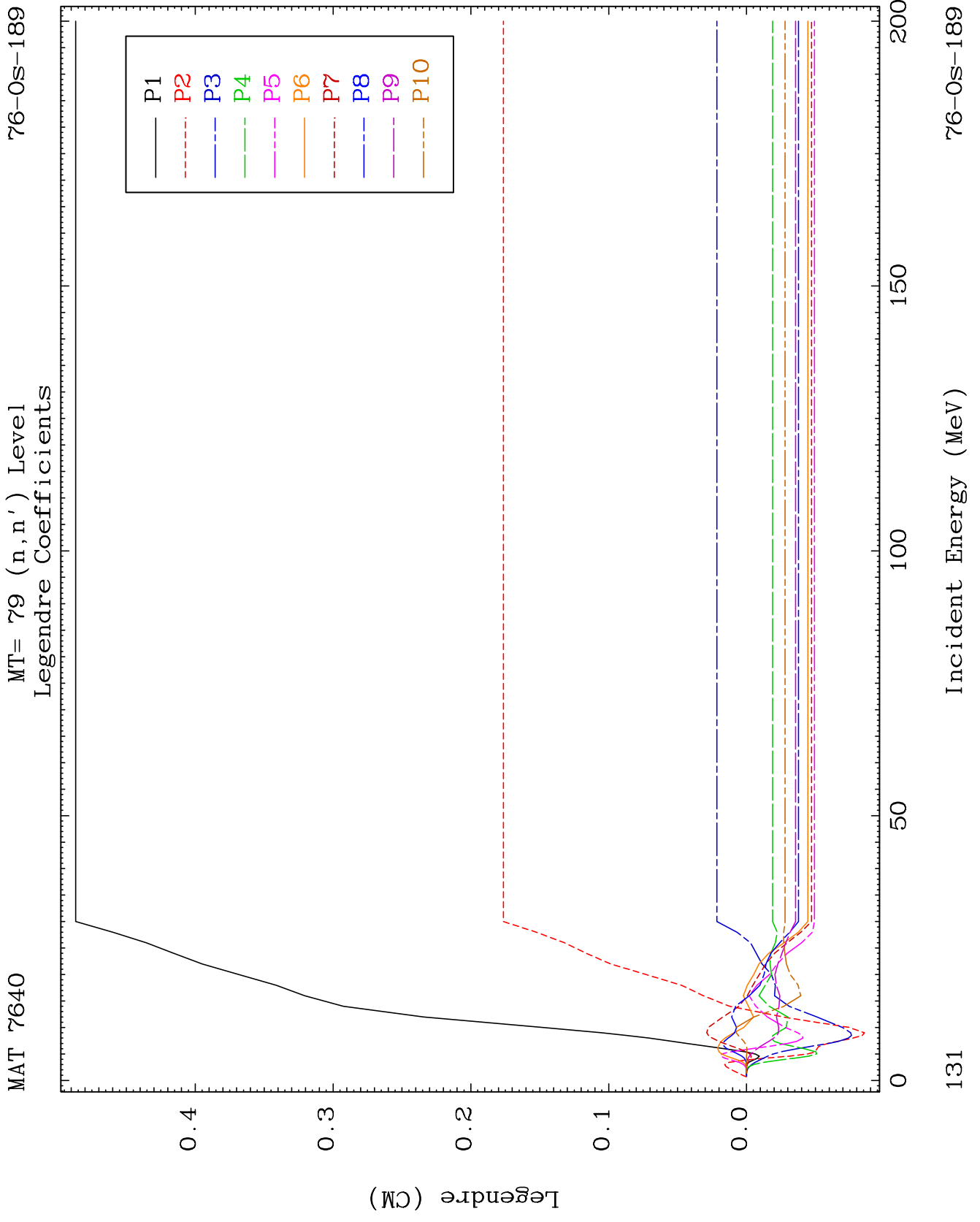
76-Os-189

MAT 7640

MT= 78 (n,n') Level  
Legendre Coefficients

76-Os-189

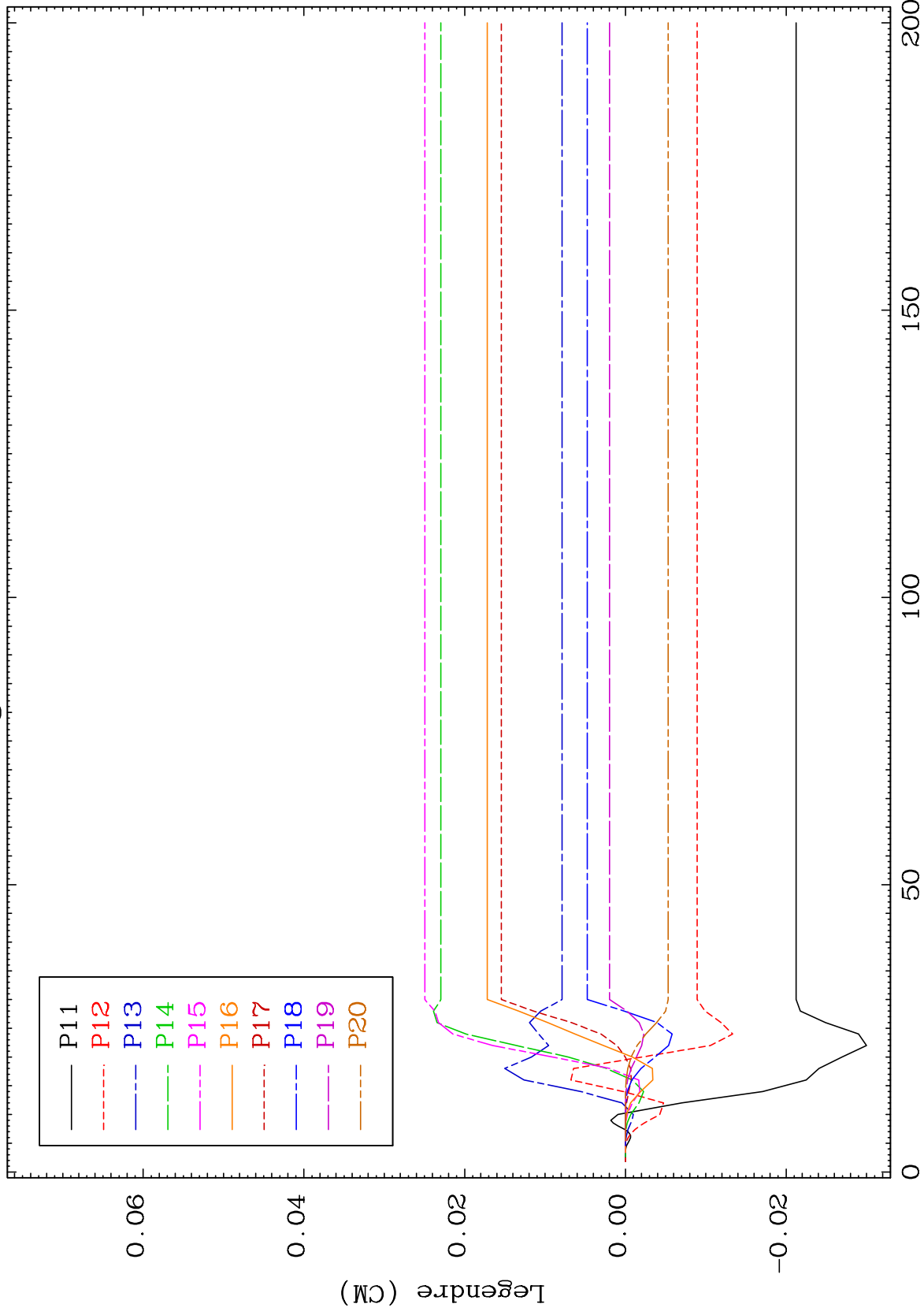




MAT 7640

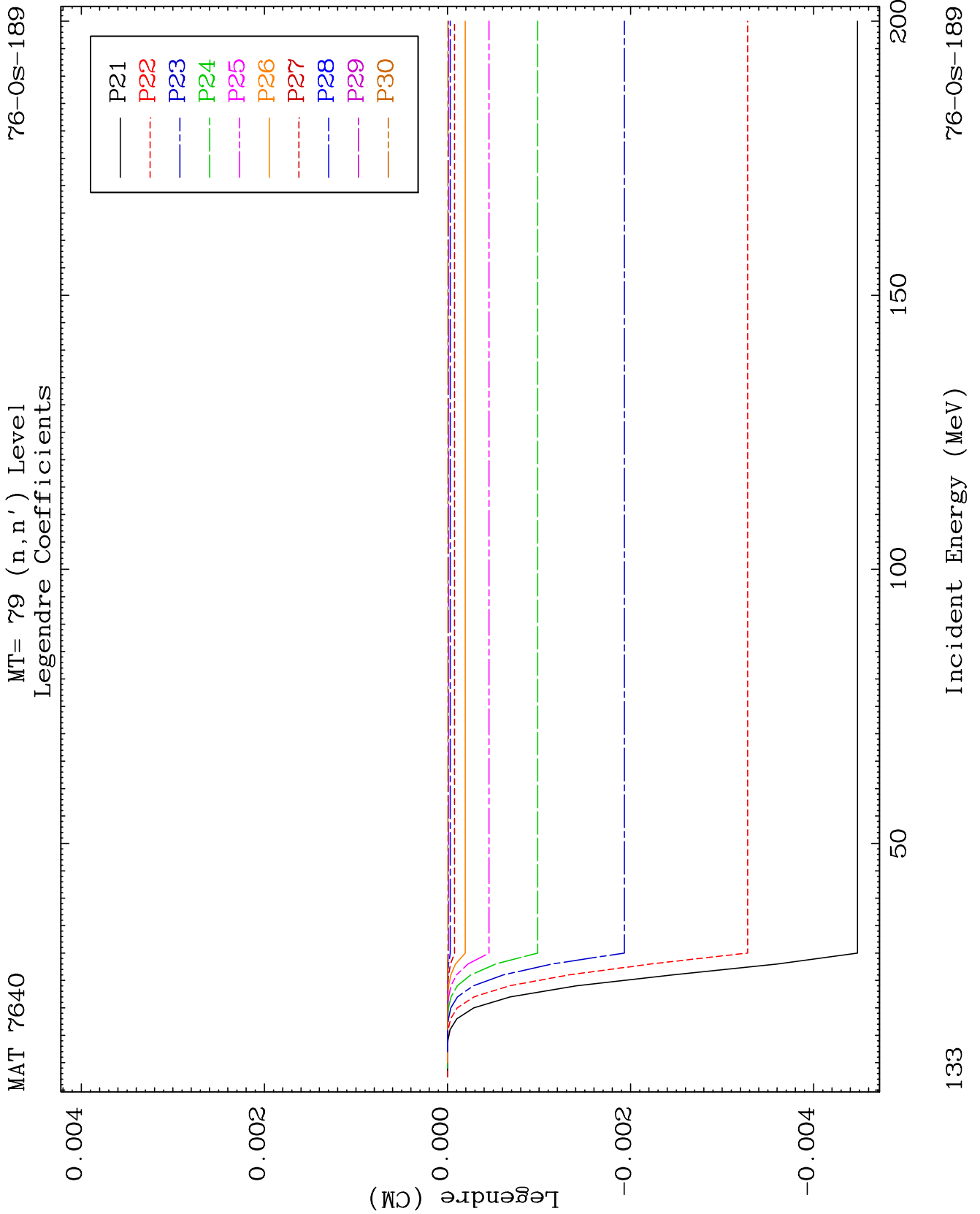
MT= 79 (n,n') Level  
Legendre Coefficients

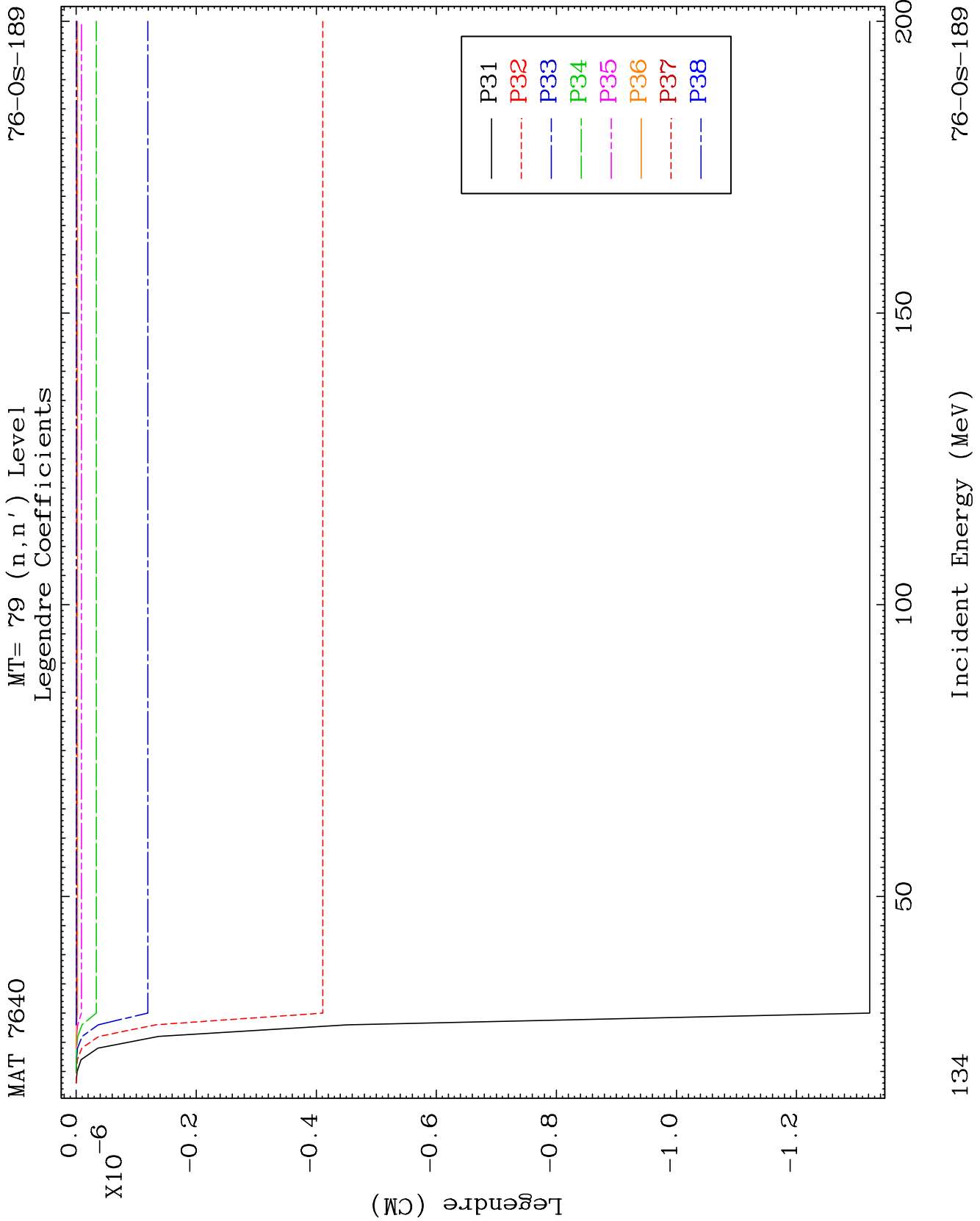
76-0s-189



132

76-0s-189

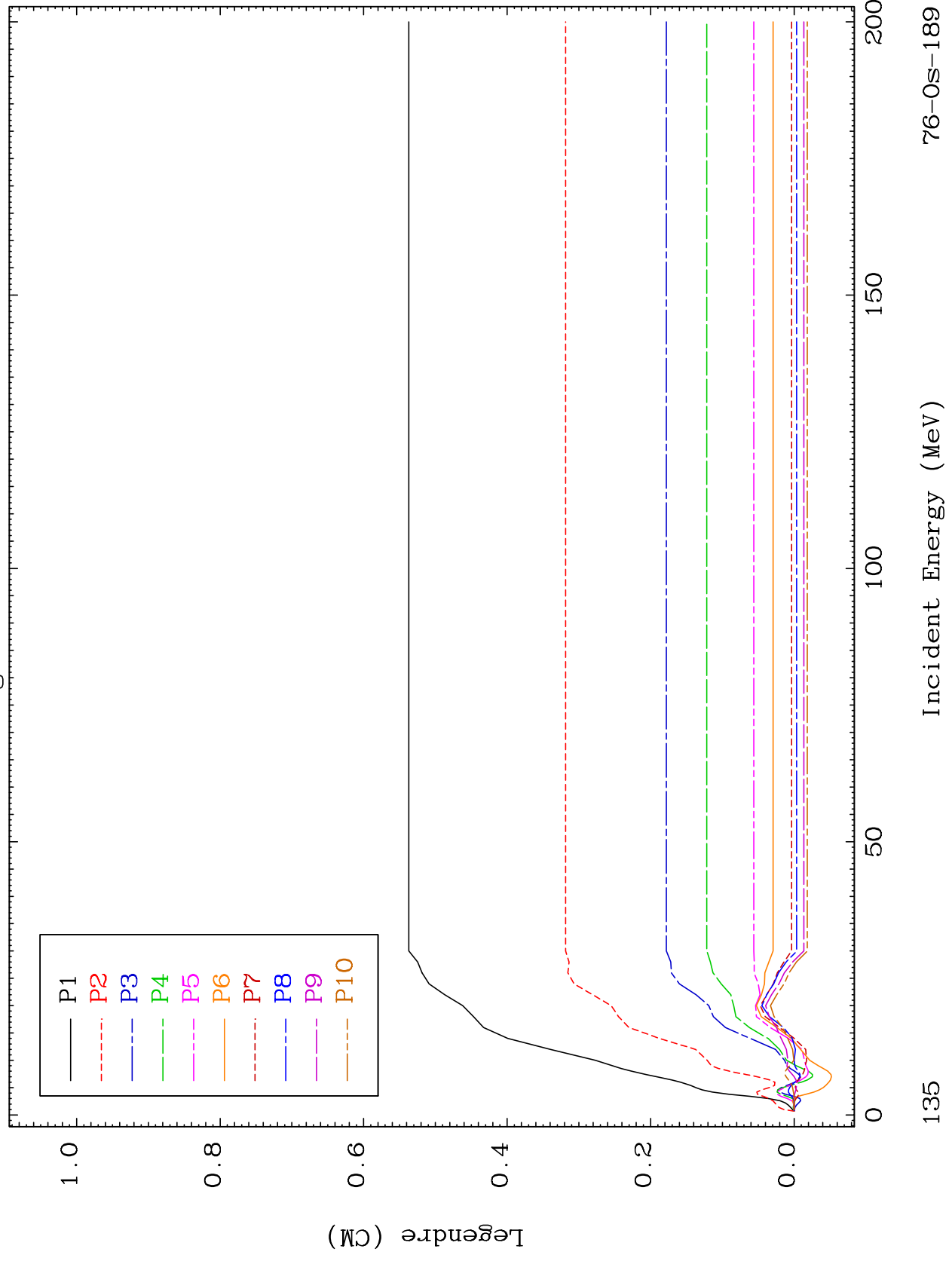




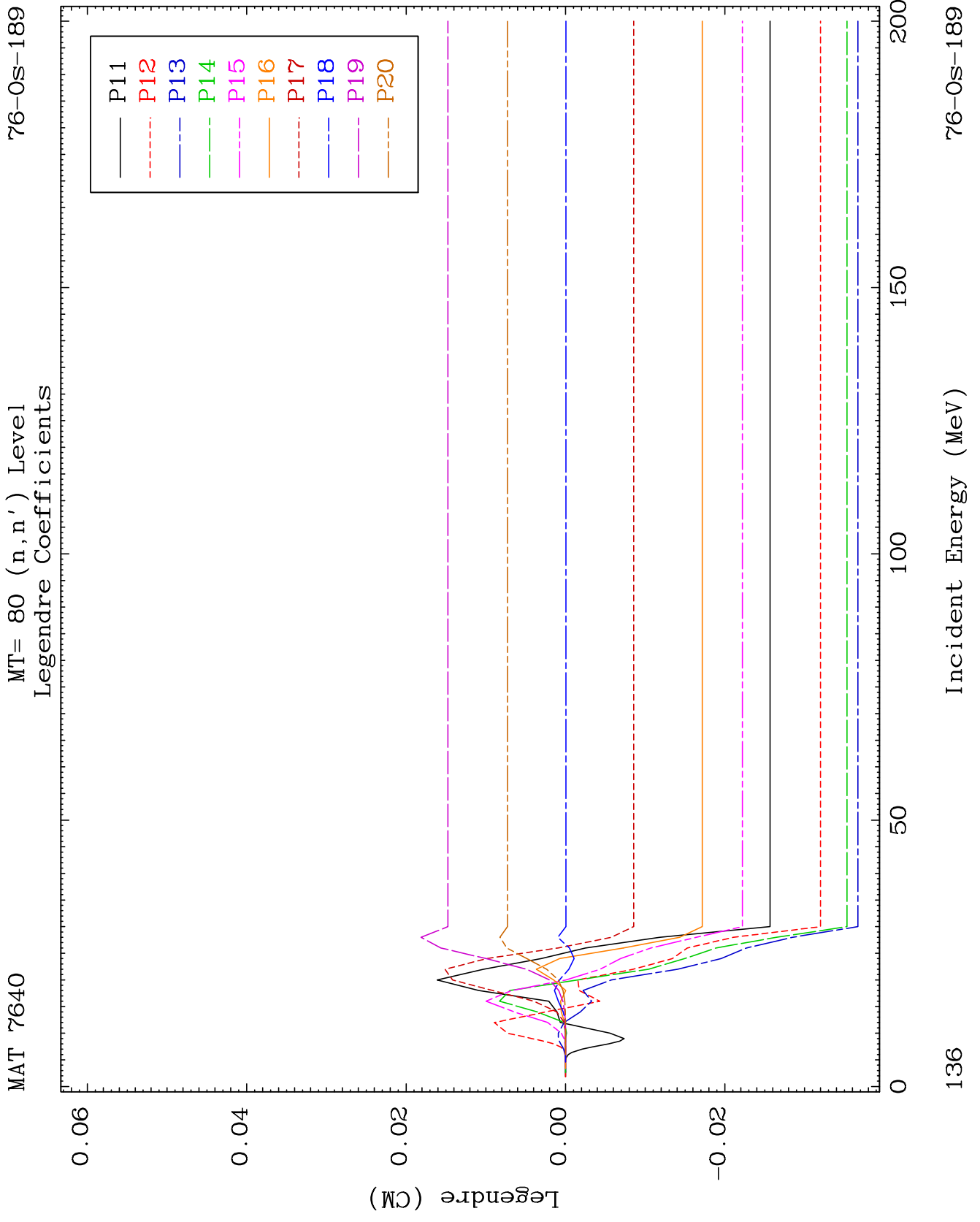
MAT 7640

MT= 80 (n,n') Level  
Legendre Coefficients

76-Os-189



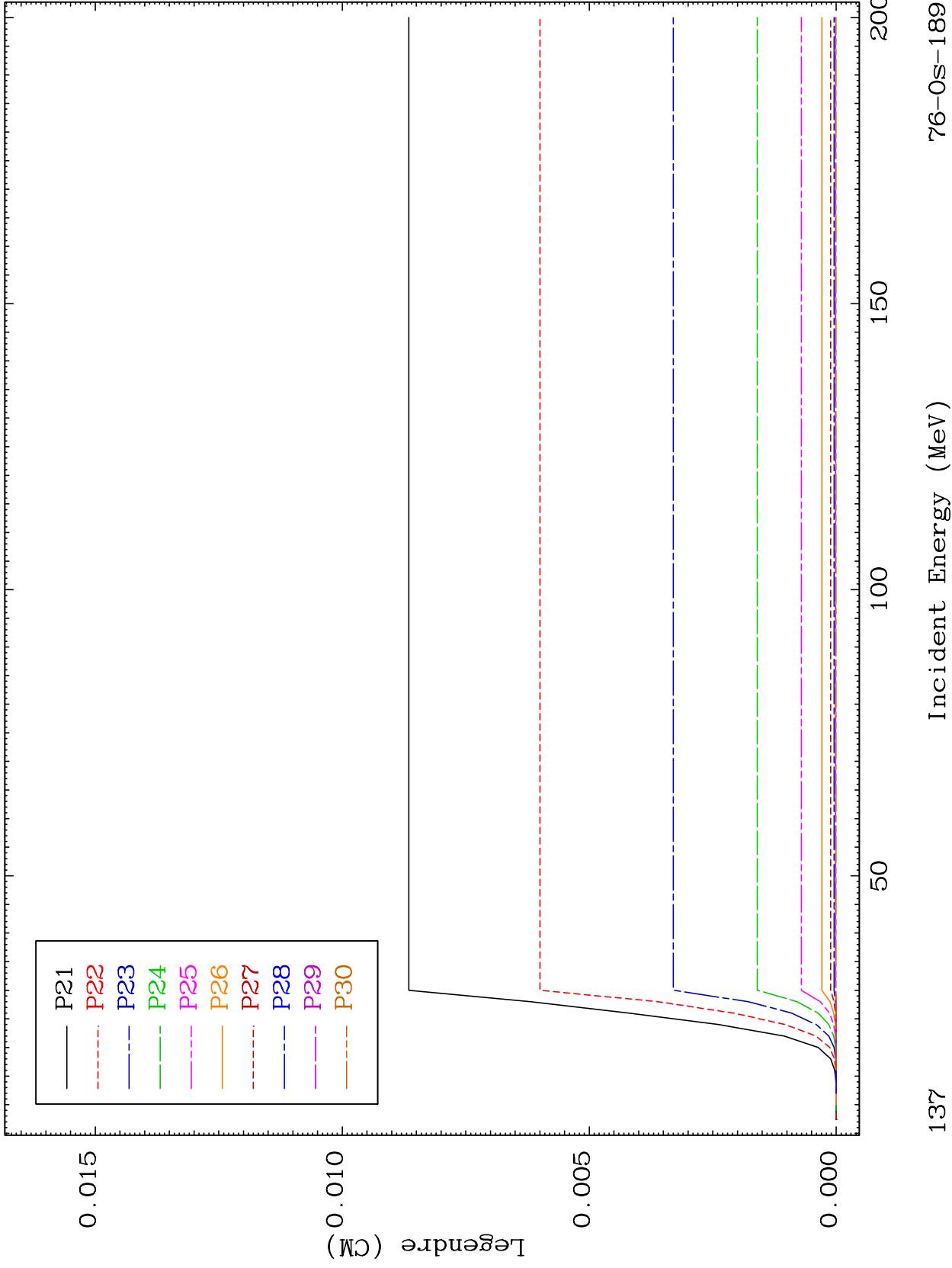




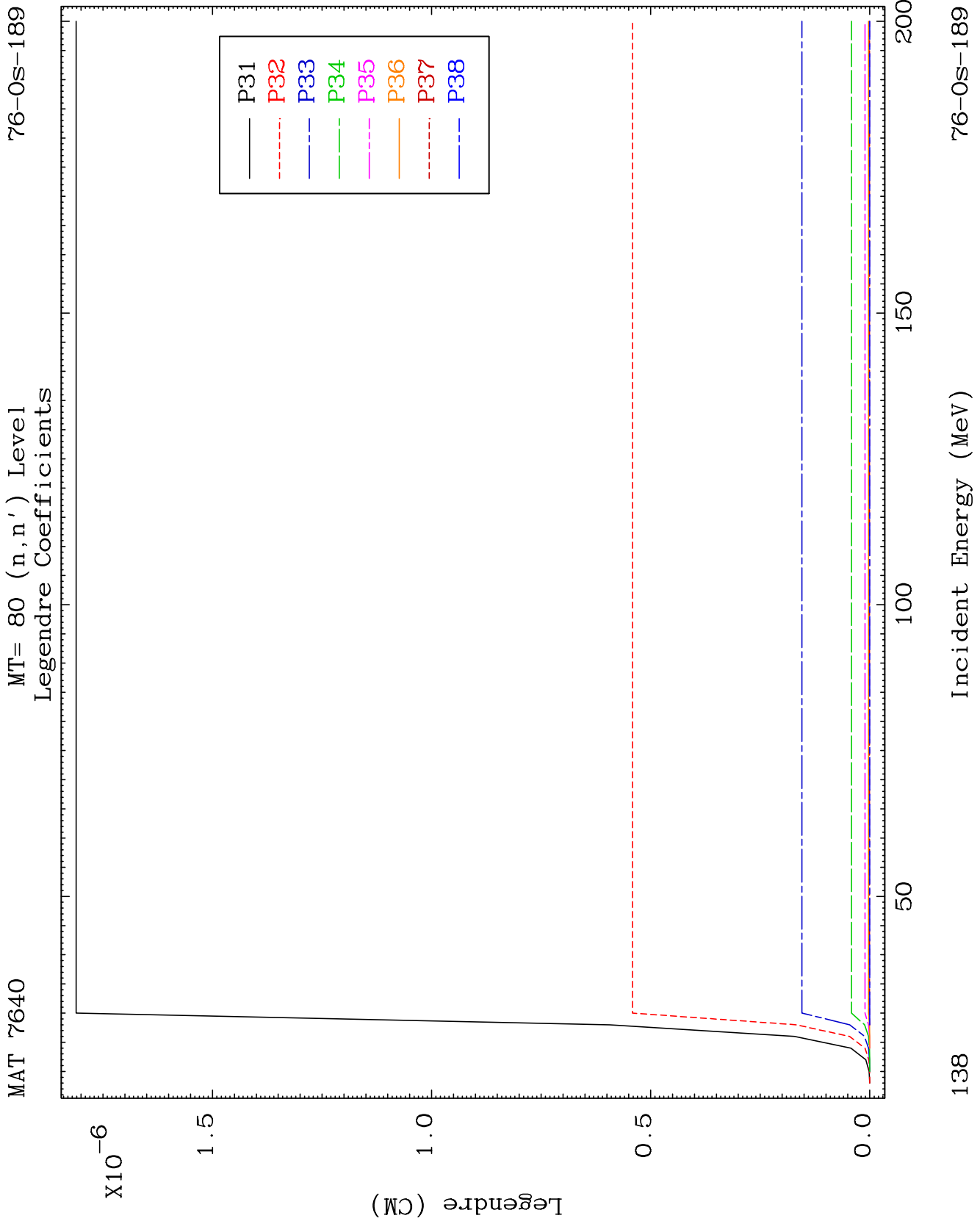
MAT 7640

MT= 80 (n,n') Level  
Legendre Coefficients

76-0s-189



137

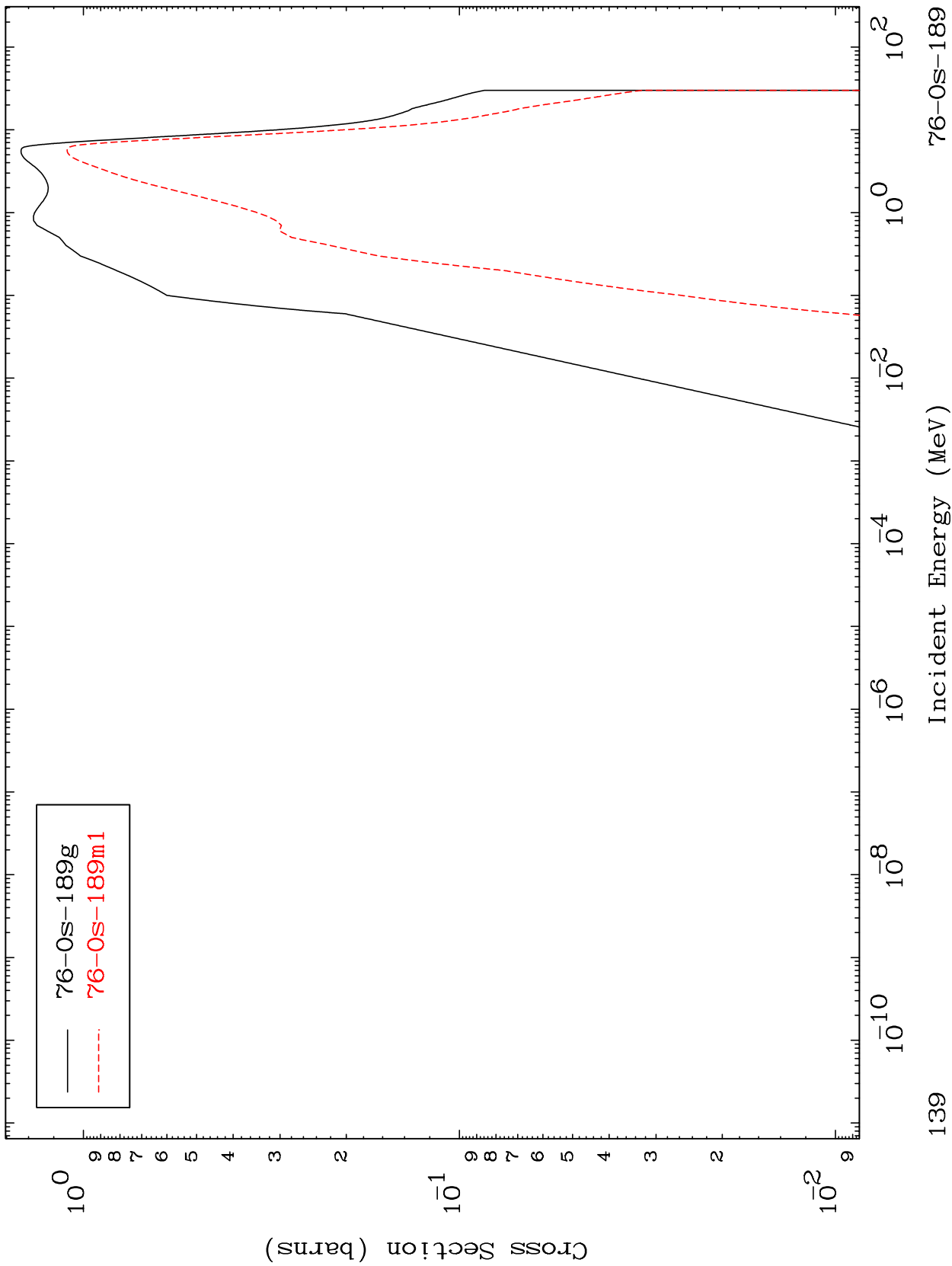


MAT 7640

Inelastic

76-Os-189

Radionuclide Production Cross Section

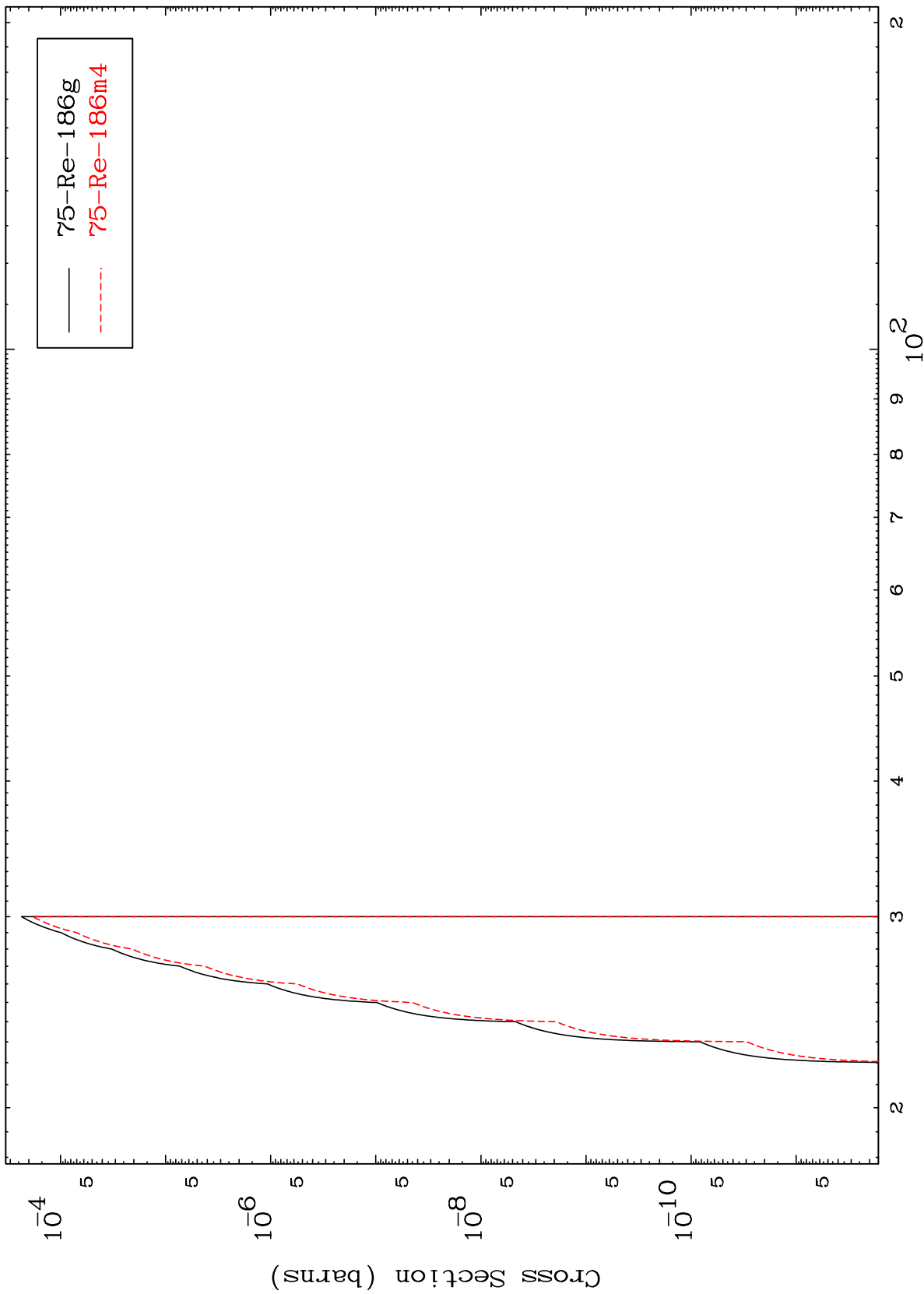


MAT 7640

(n,2n) d

76-Os-189

Radionuclide Production Cross Section



140

Incident Energy (MeV)

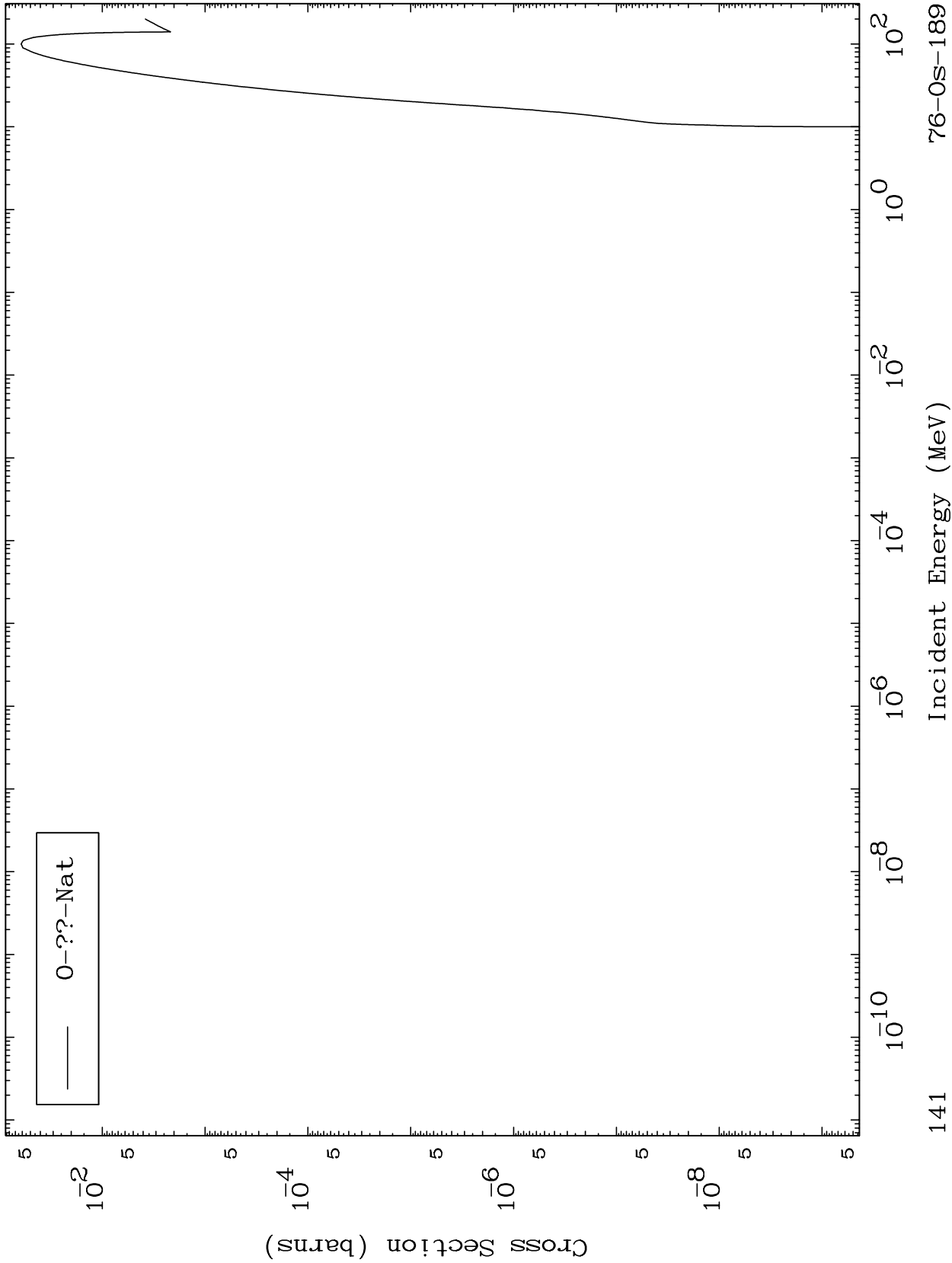
76-Os-189

MAT 7640

Fission

76-Os-189

Radionuclide Production Cross Section



141

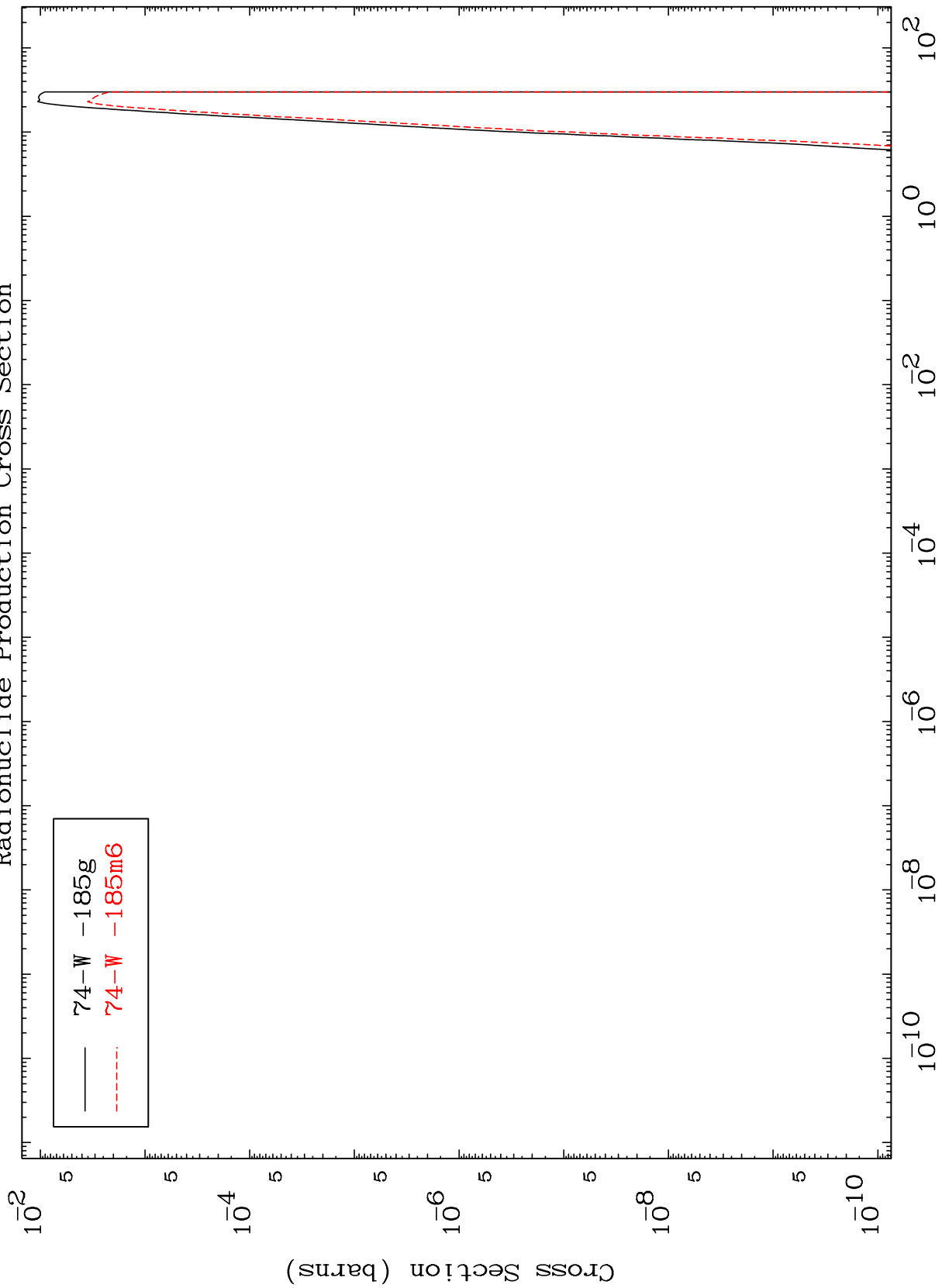
76-Os-189

MAT 7640

$(n, n') \alpha$

76-Os-189

Radionuclide Production Cross Section



74-W -185g  
74-W -185m6

76-Os-189

Incident Energy (MeV)

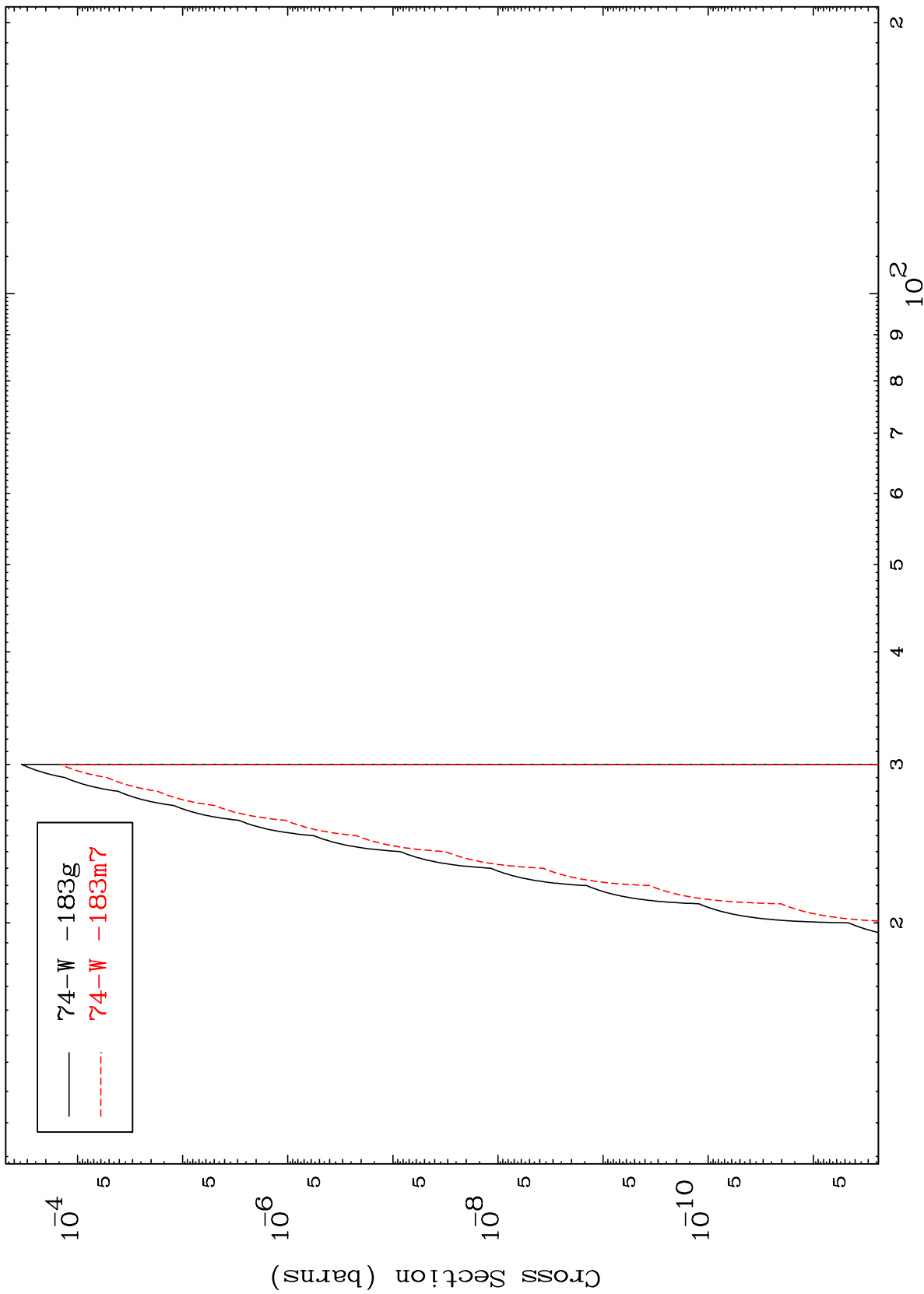
142

MAT 7640

(n,3n)  $\alpha$

76-Os-189

Radionuclide Production Cross Section



143

Incident Energy (MeV)

76-Os-189

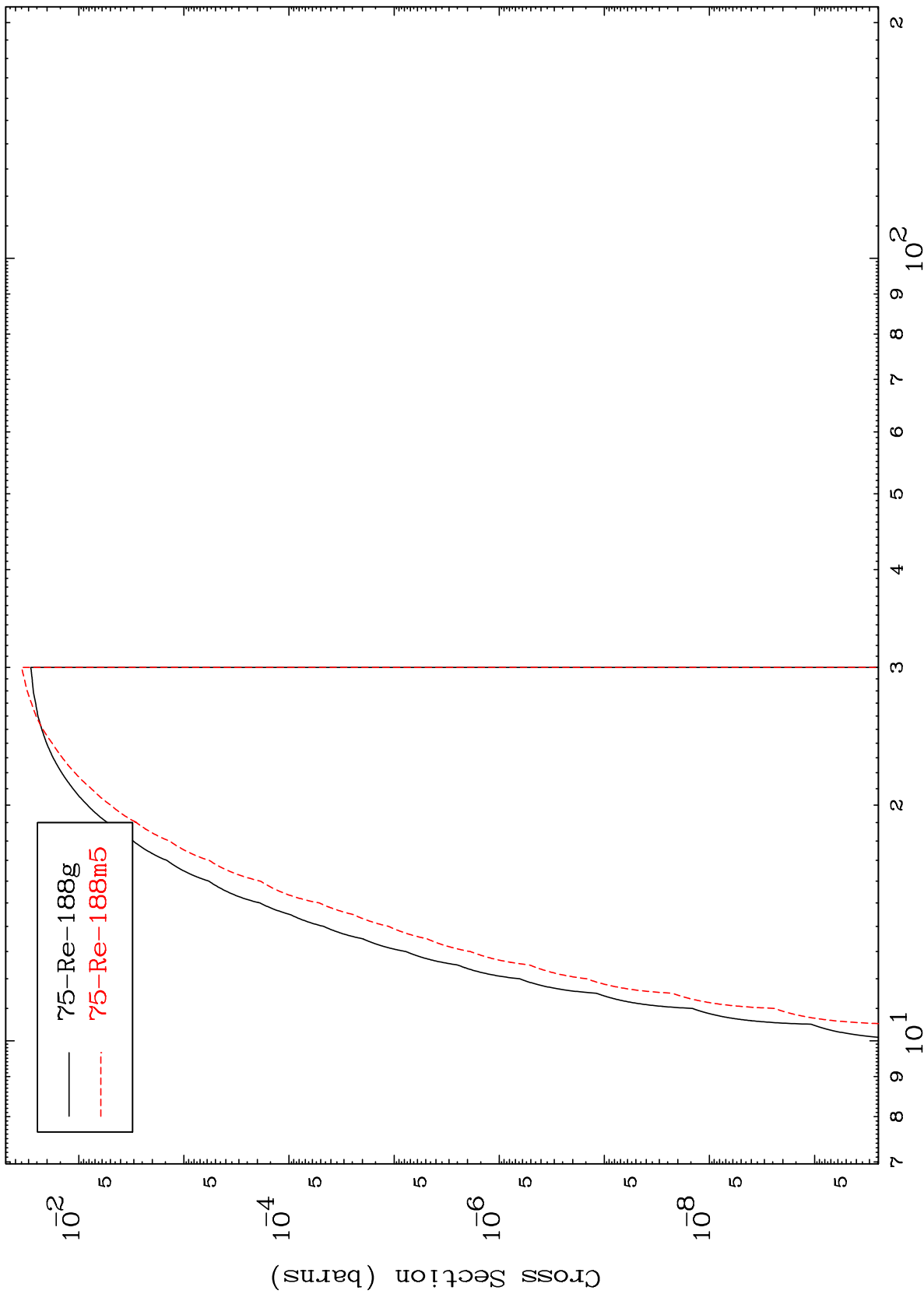


MAT 7640

(n,n') p

76-Os-189

Radionuclide Production Cross Section



75-Re-188g  
75-Re-188m5

144

Incident Energy (MeV)

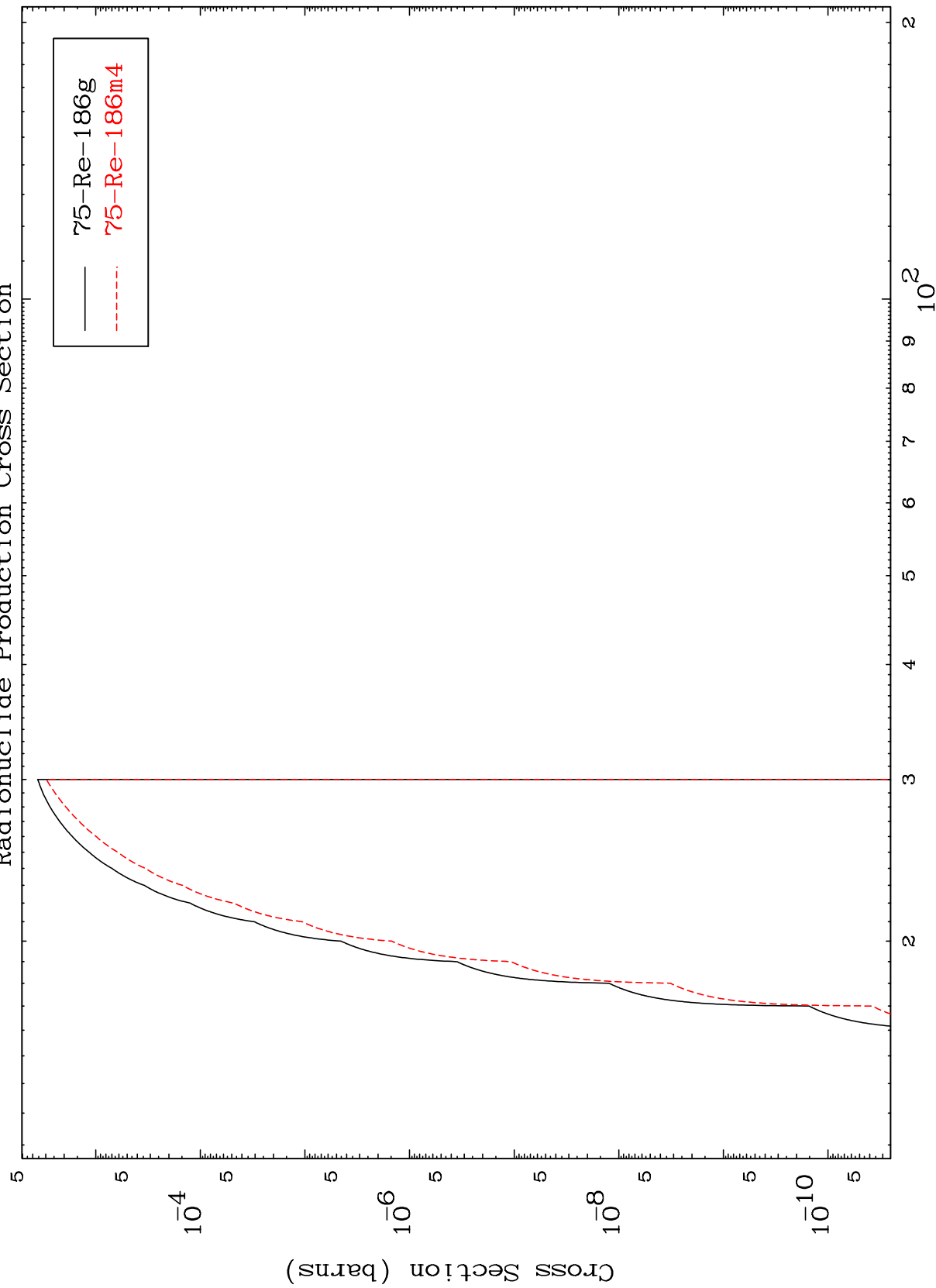
76-Os-189

MAT 7640

(n,n') t

76-Os-189

Radionuclide Production Cross Section



145

Incident Energy (MeV)

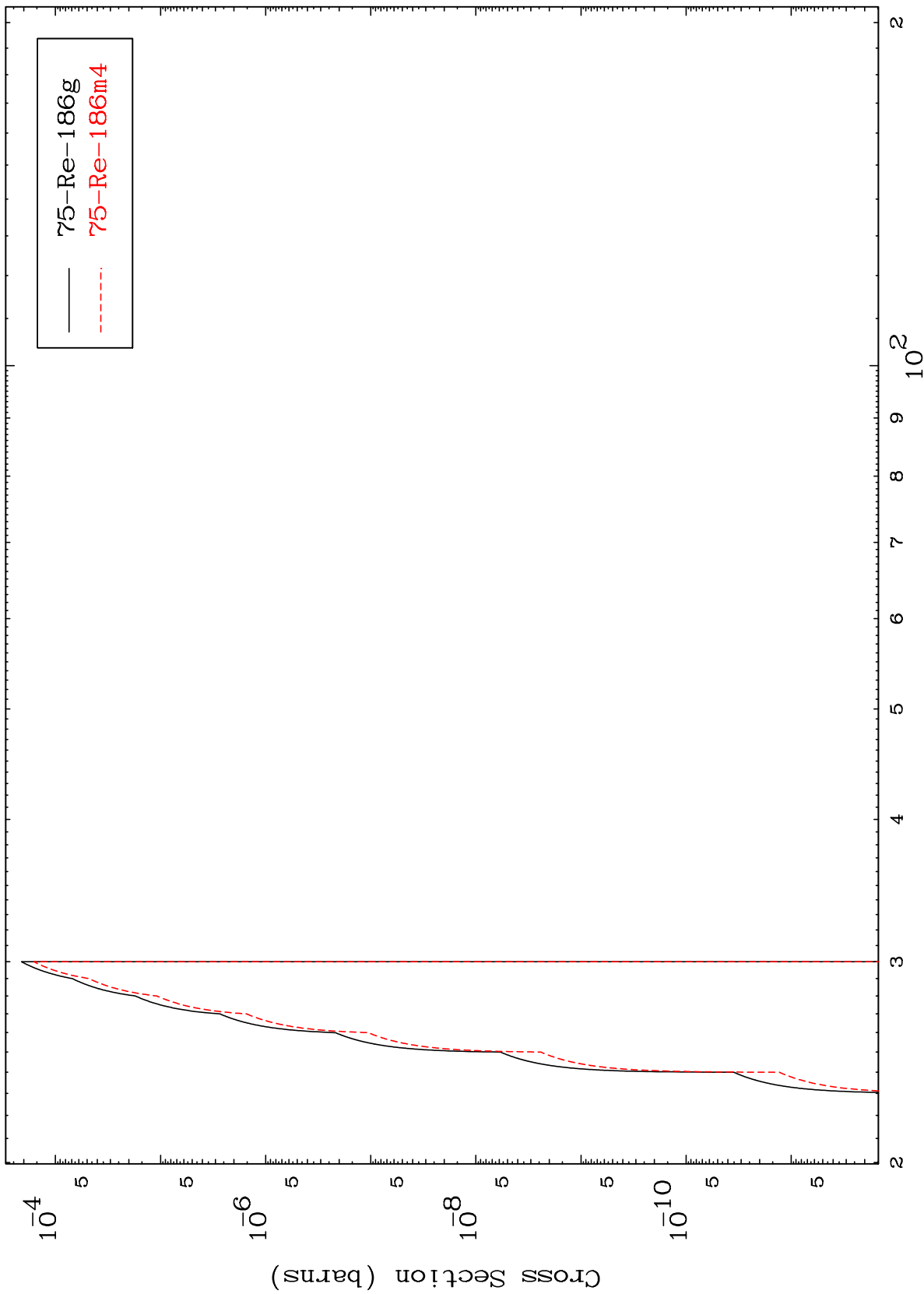
76-Os-189

MAT 7640

(n,3n) p

76-Os-189

Radionuclide Production Cross Section



146

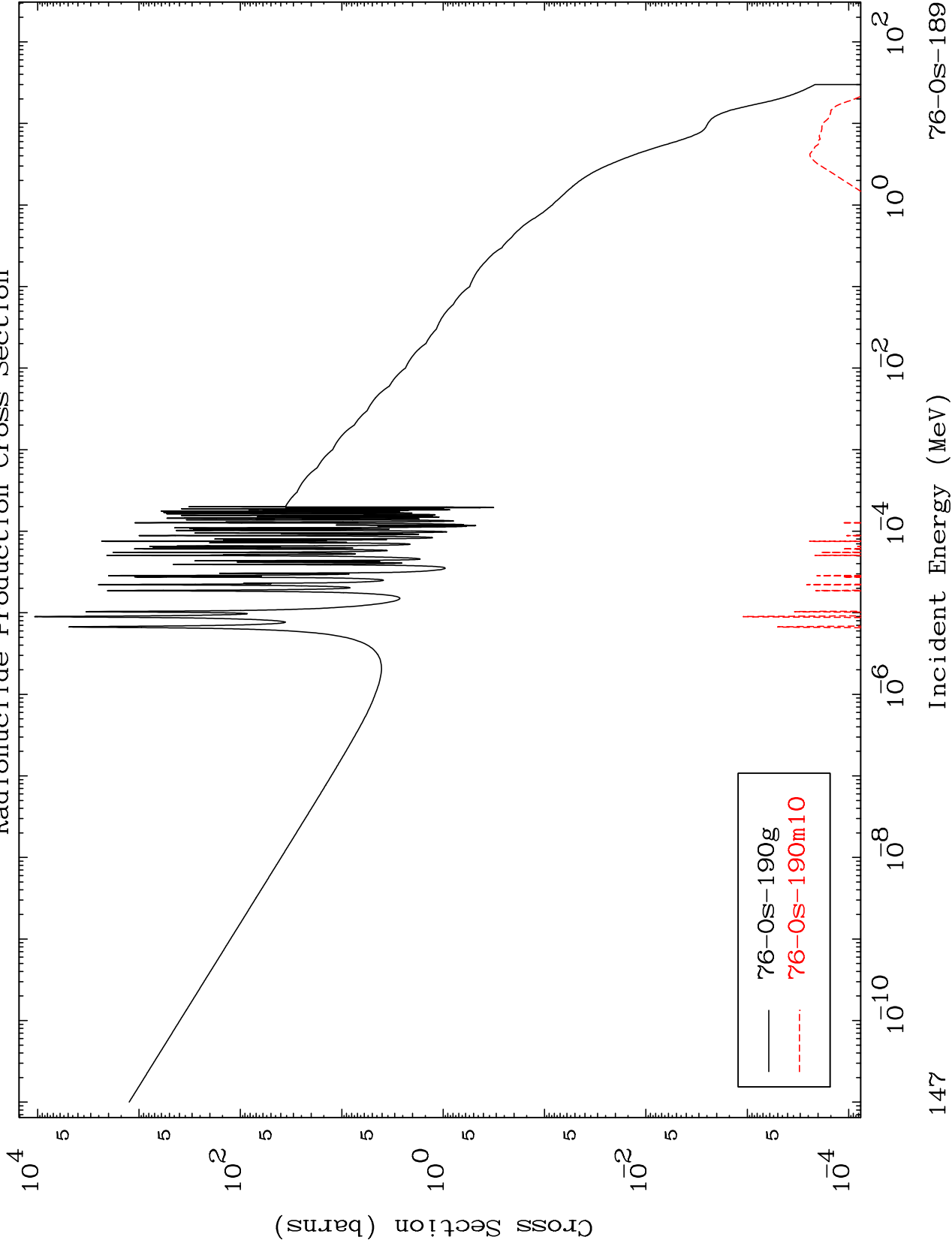
Incident Energy (MeV)

76-Os-189

MAT 7640

76-Os-189

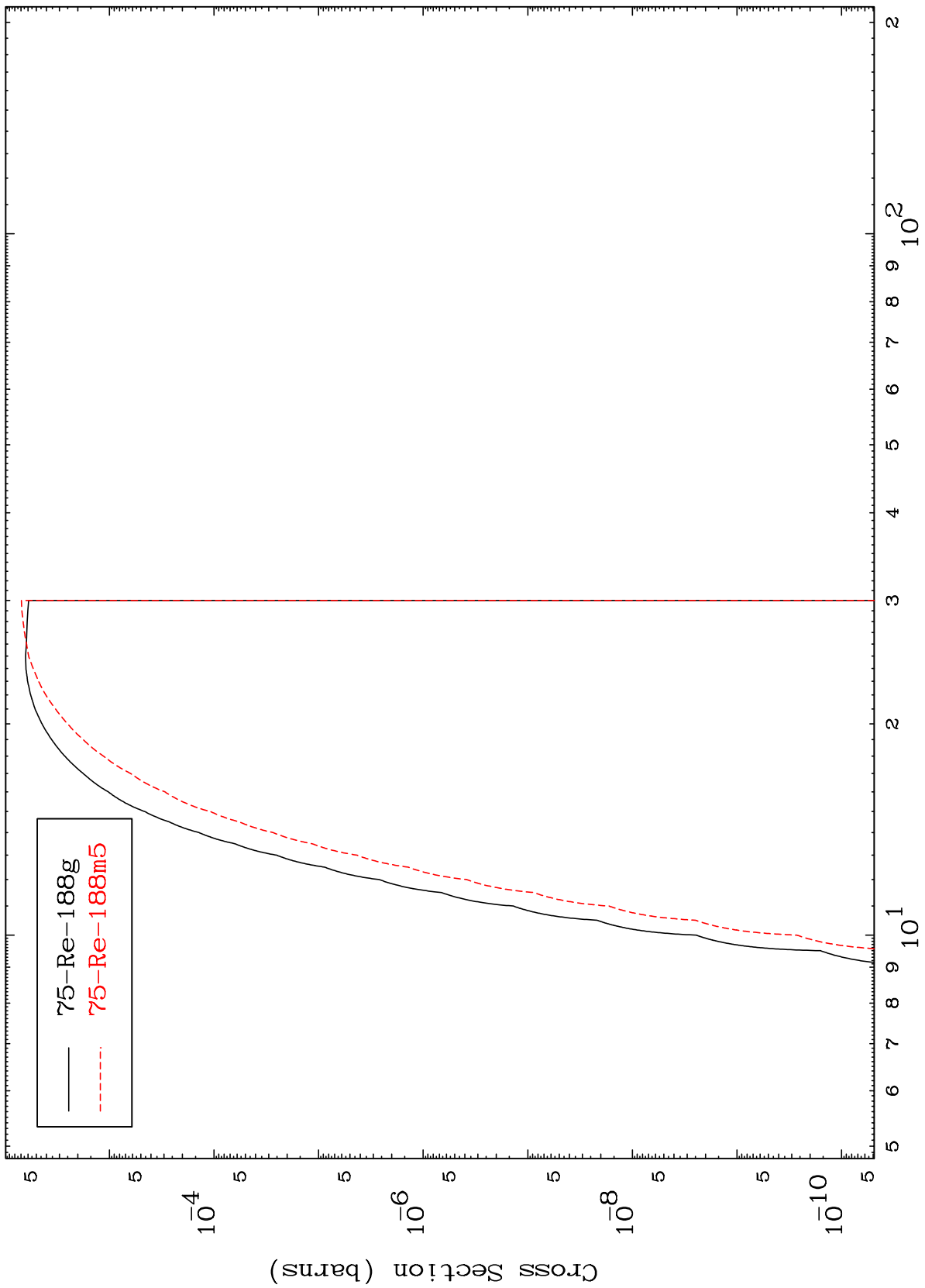
$(n, \gamma)$   
Radionuclide Production Cross Section



MAT 7640

76-Os-189

(n,d)  
Radionuclide Production Cross Section



148

Incident Energy (MeV)

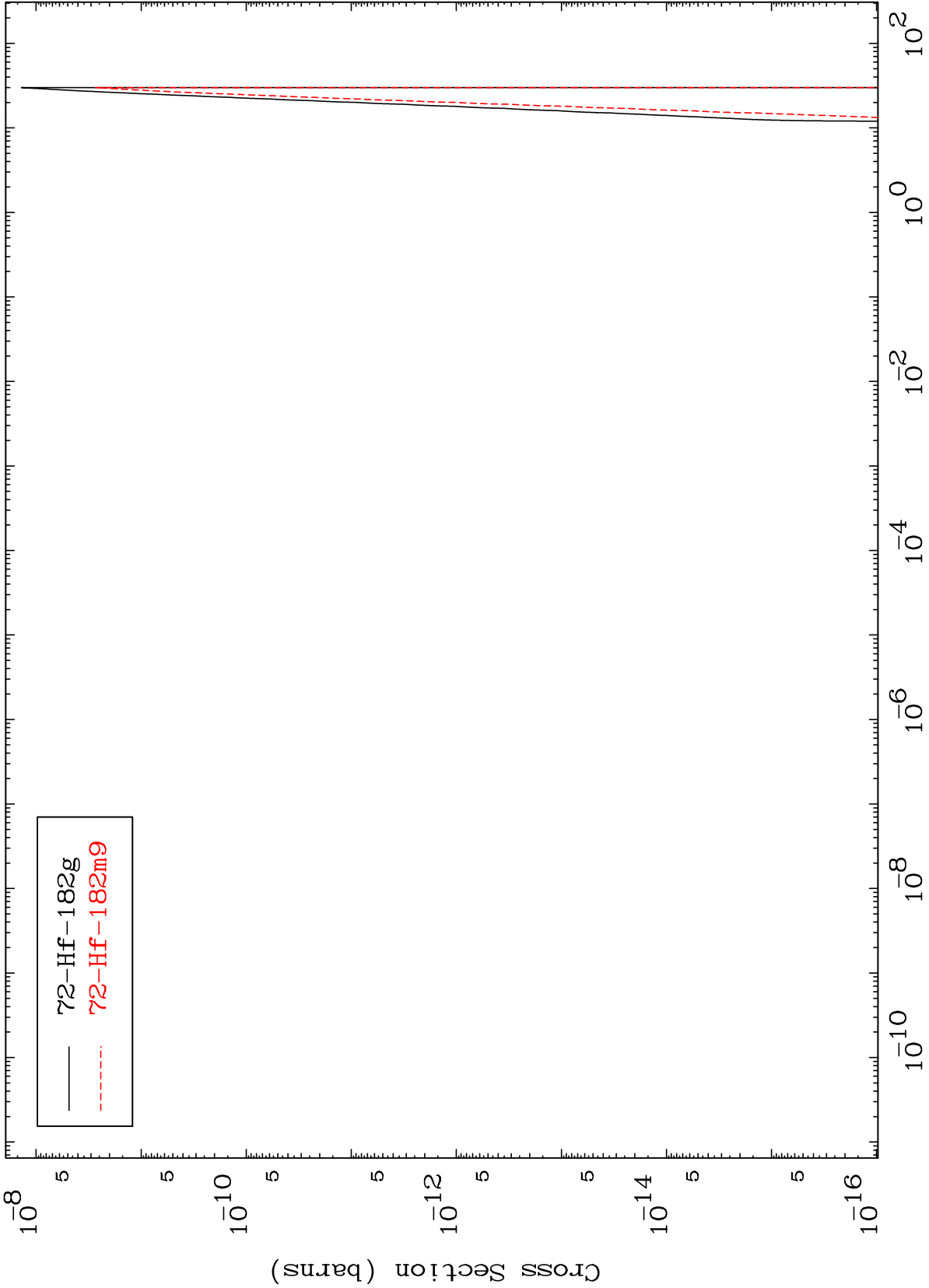
76-Os-189

MAT 7640

(n,2α)

76-Os-189

Radionuclide Production Cross Section



— 72-Hf-182g  
- - - 72-Hf-182m9