

Program Complot  
(Version 2021-1)

by

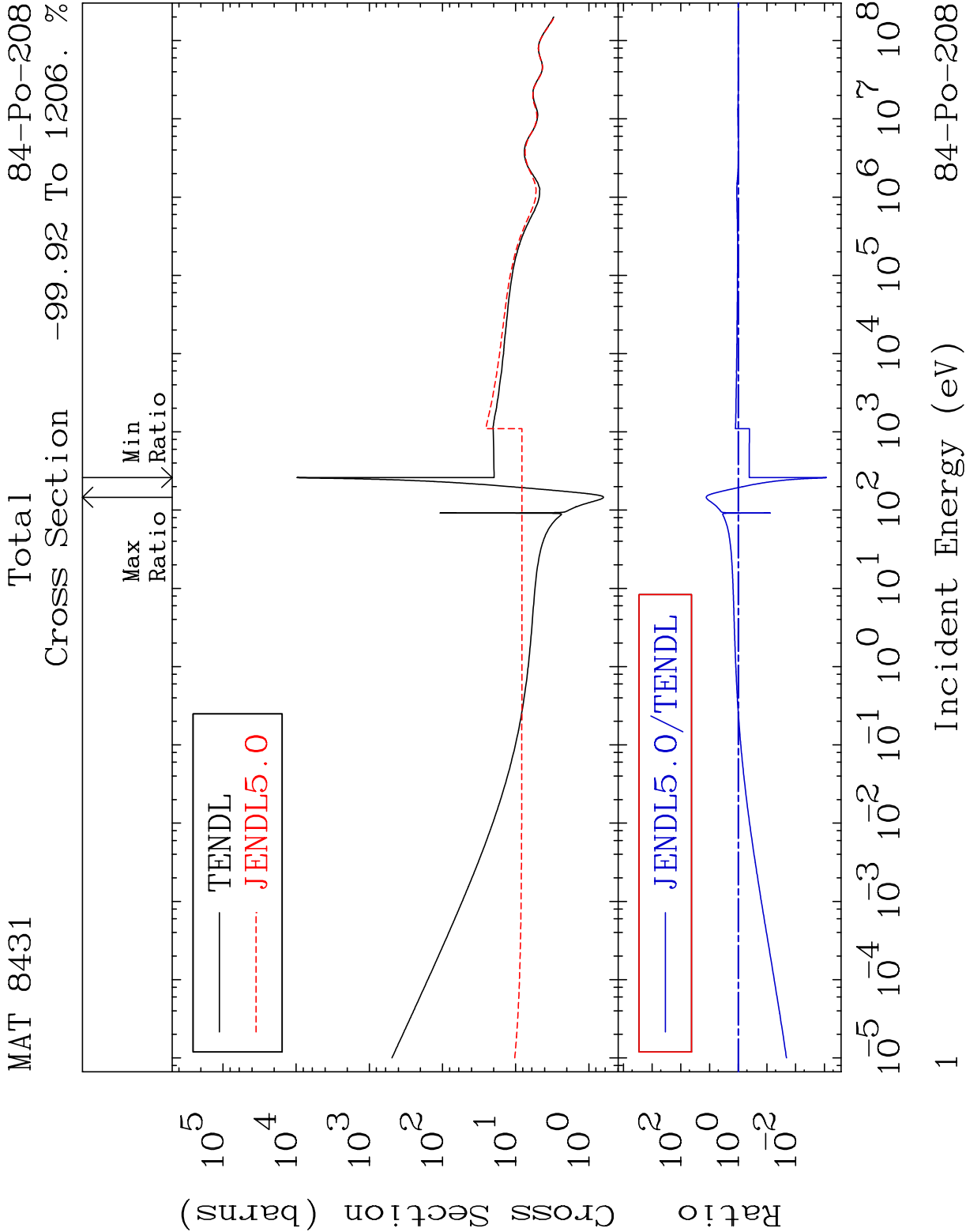
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Press Mouse Button to Start

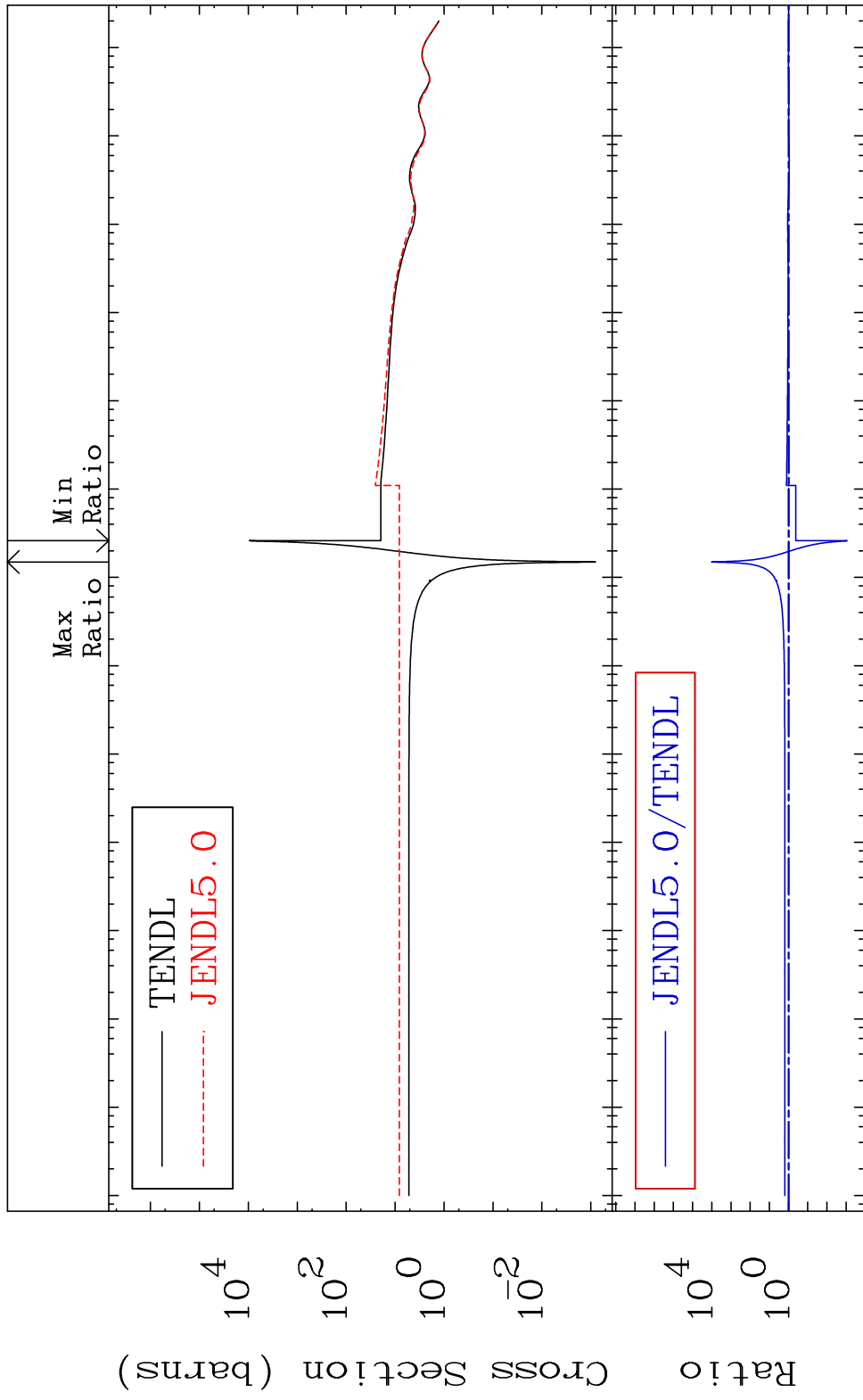


MAT 8431

Elastic

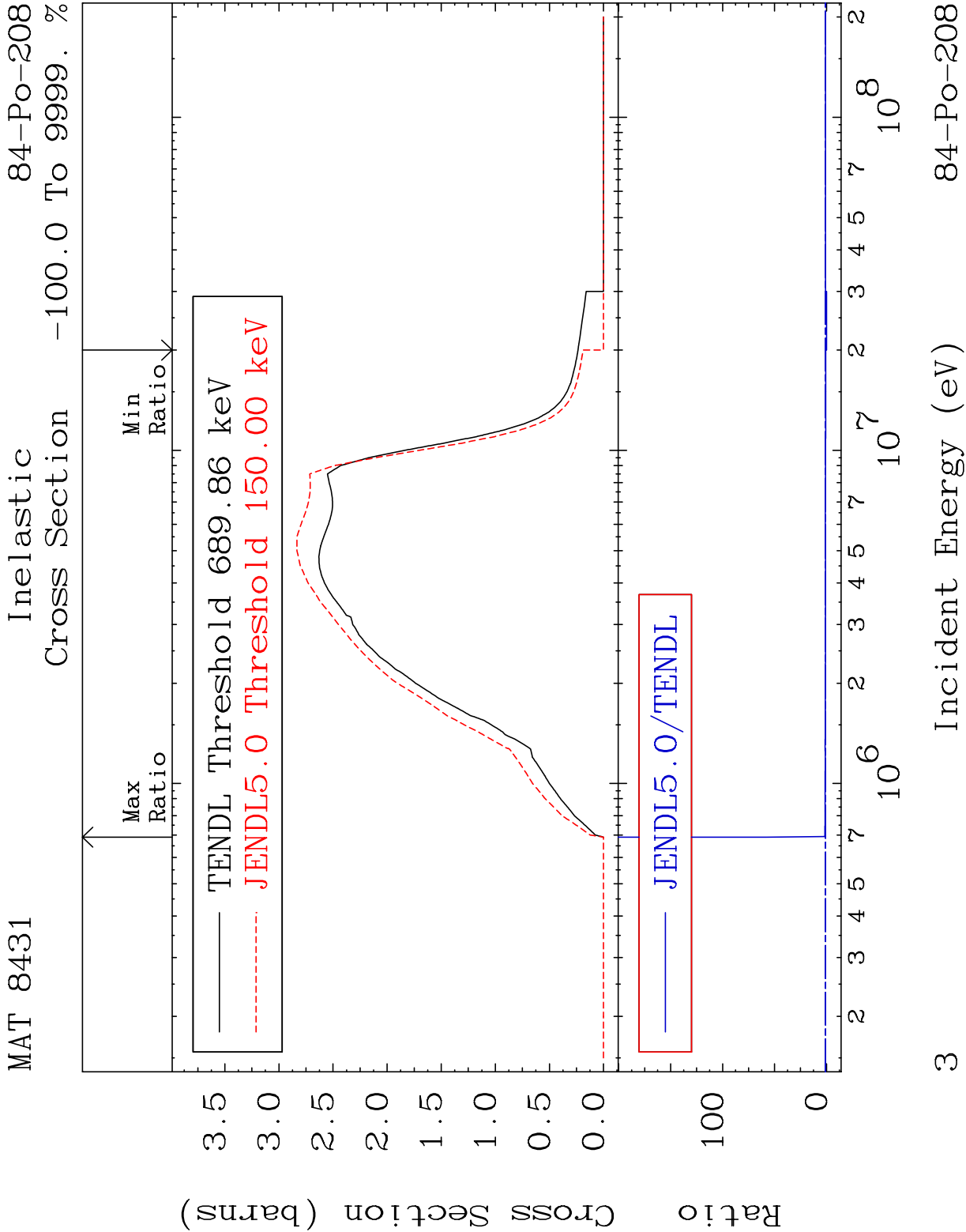
84-Po-208

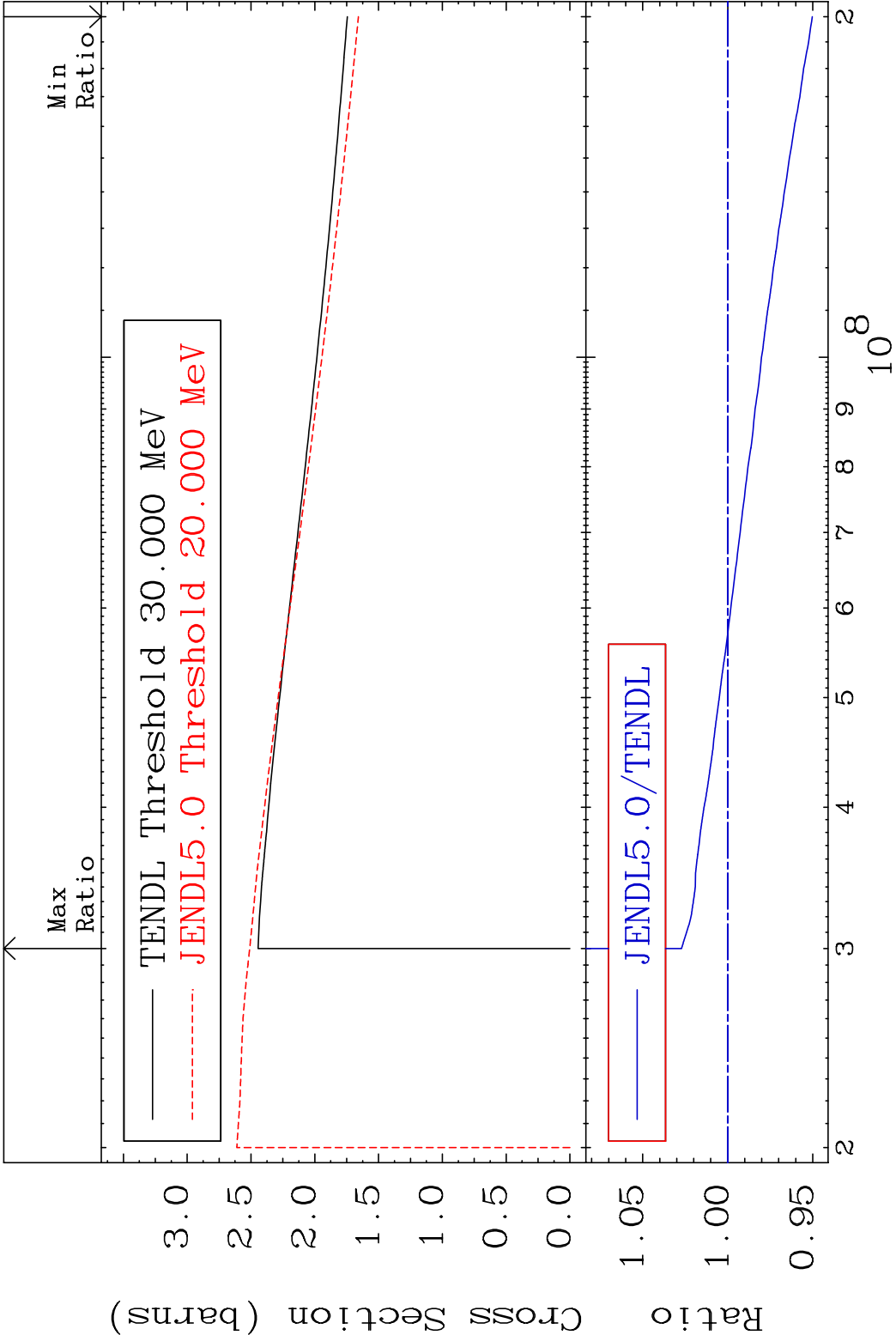
Cross Section -99.91 To 9999. %

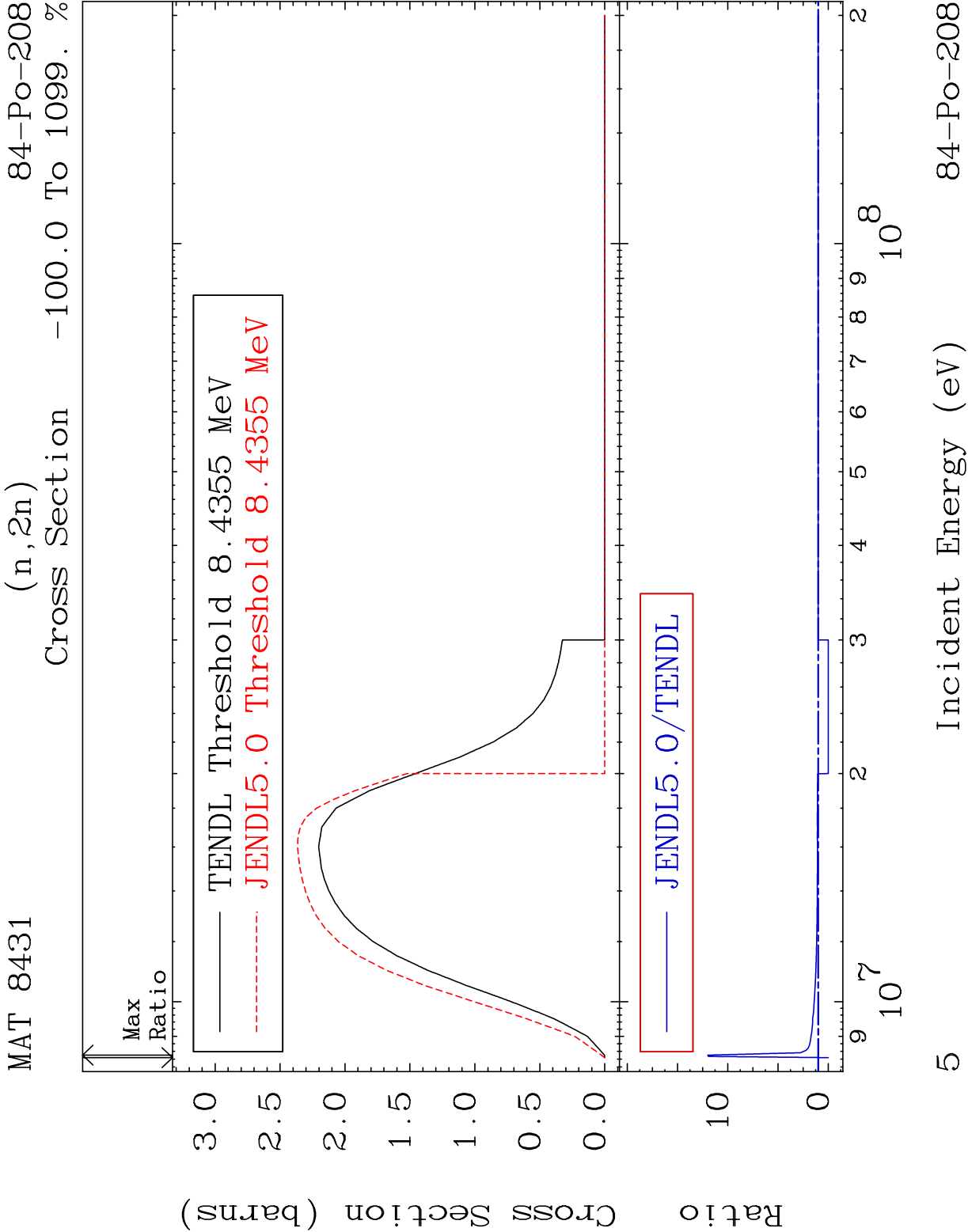


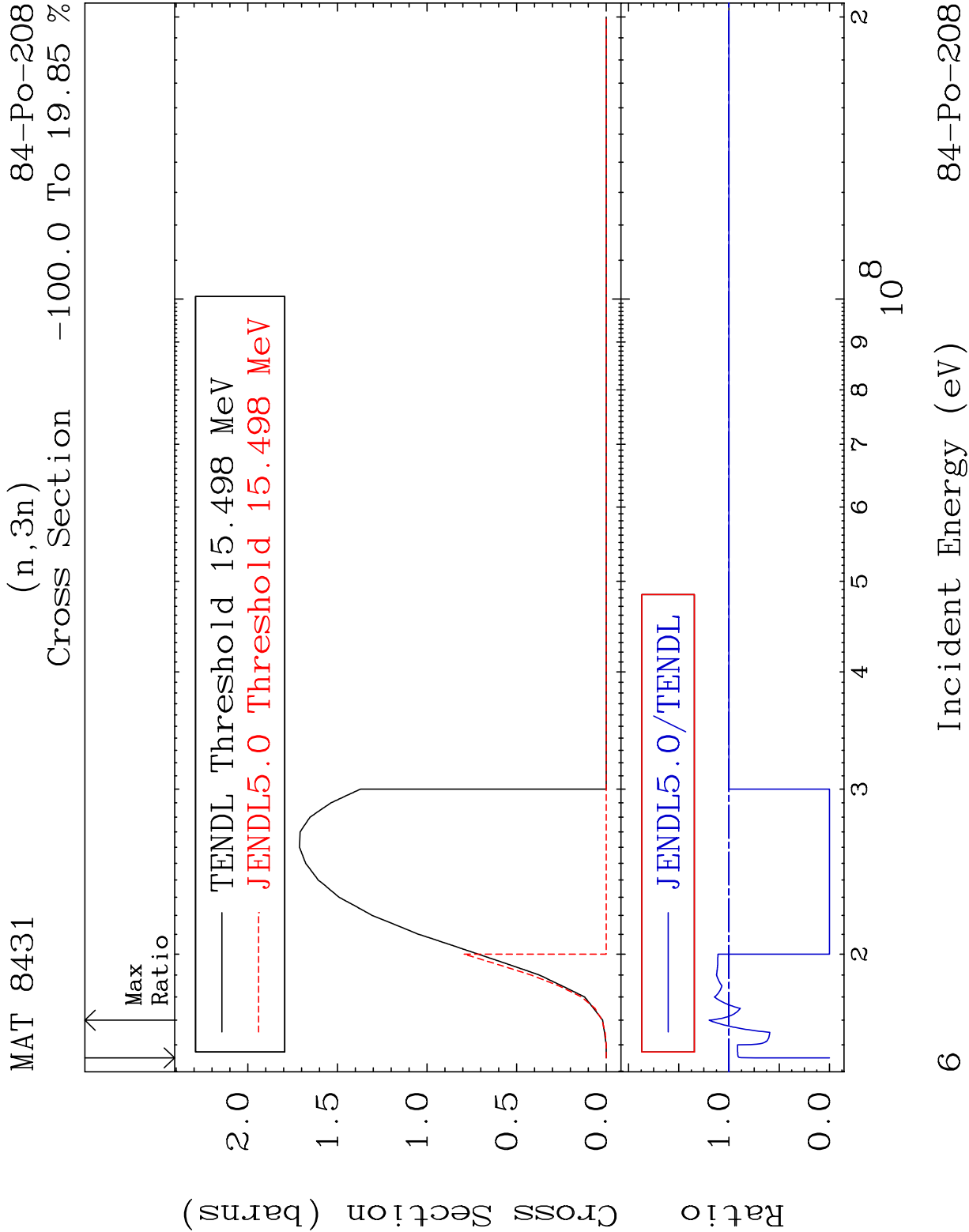
Incident Energy (eV)

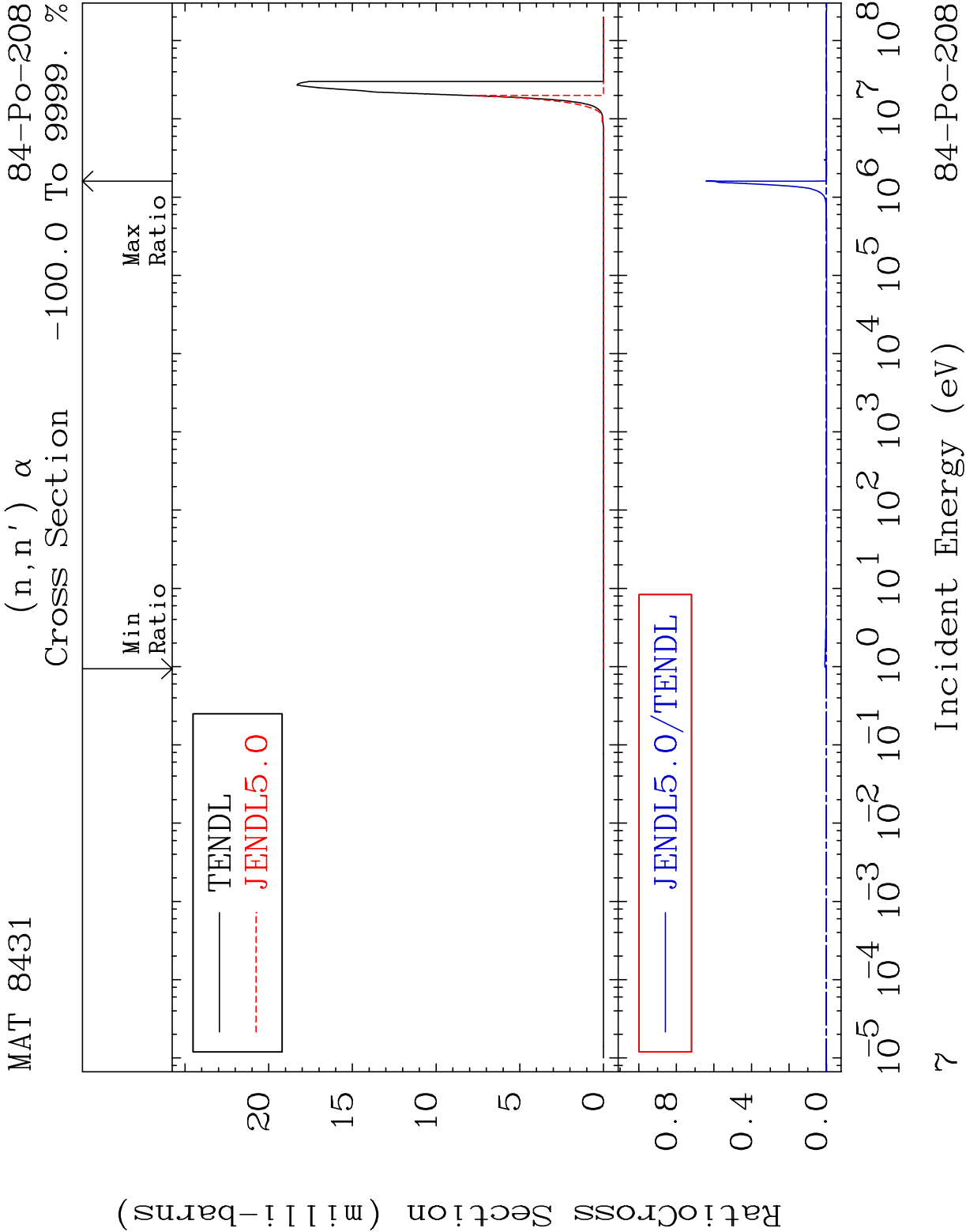
84-Po-208



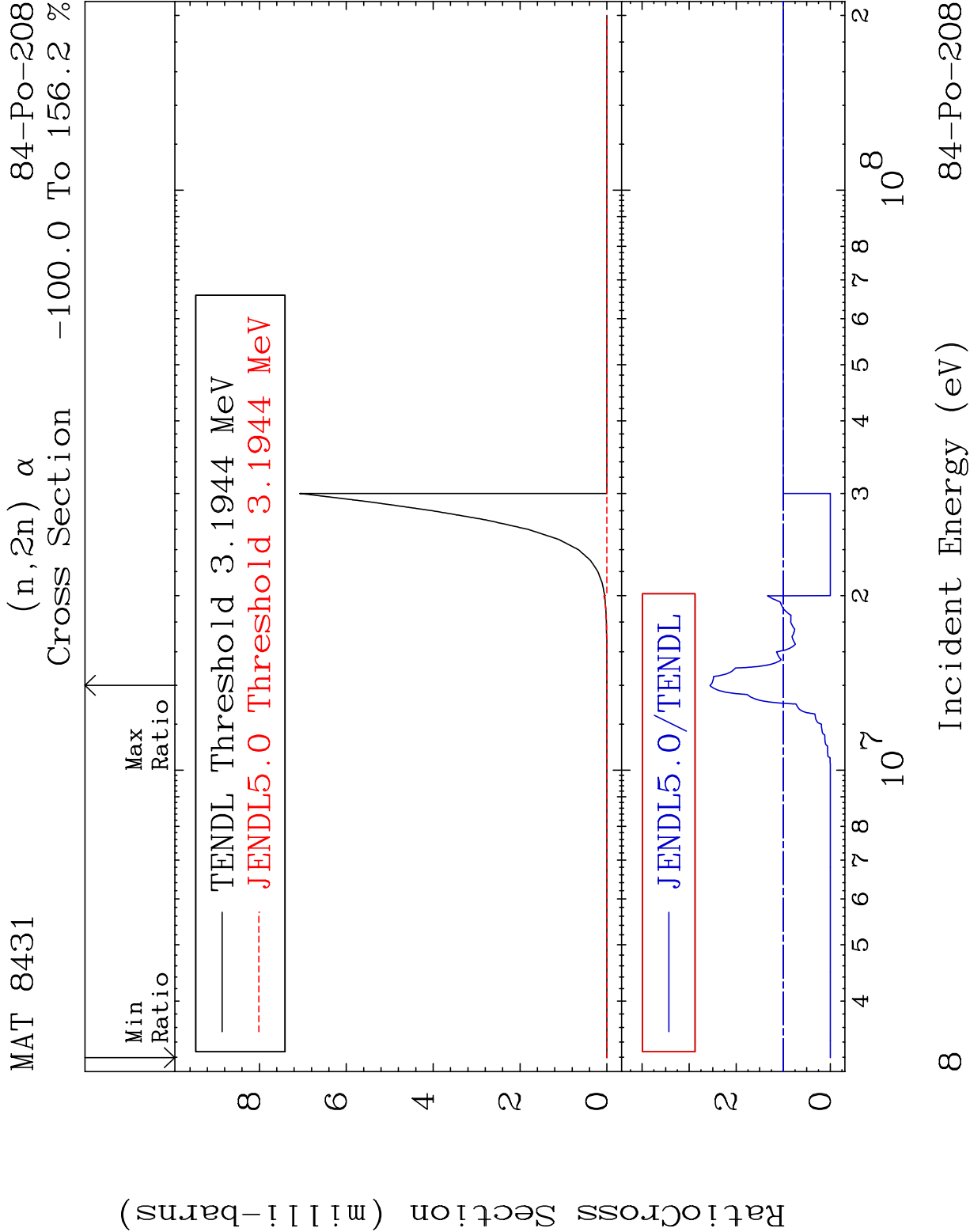


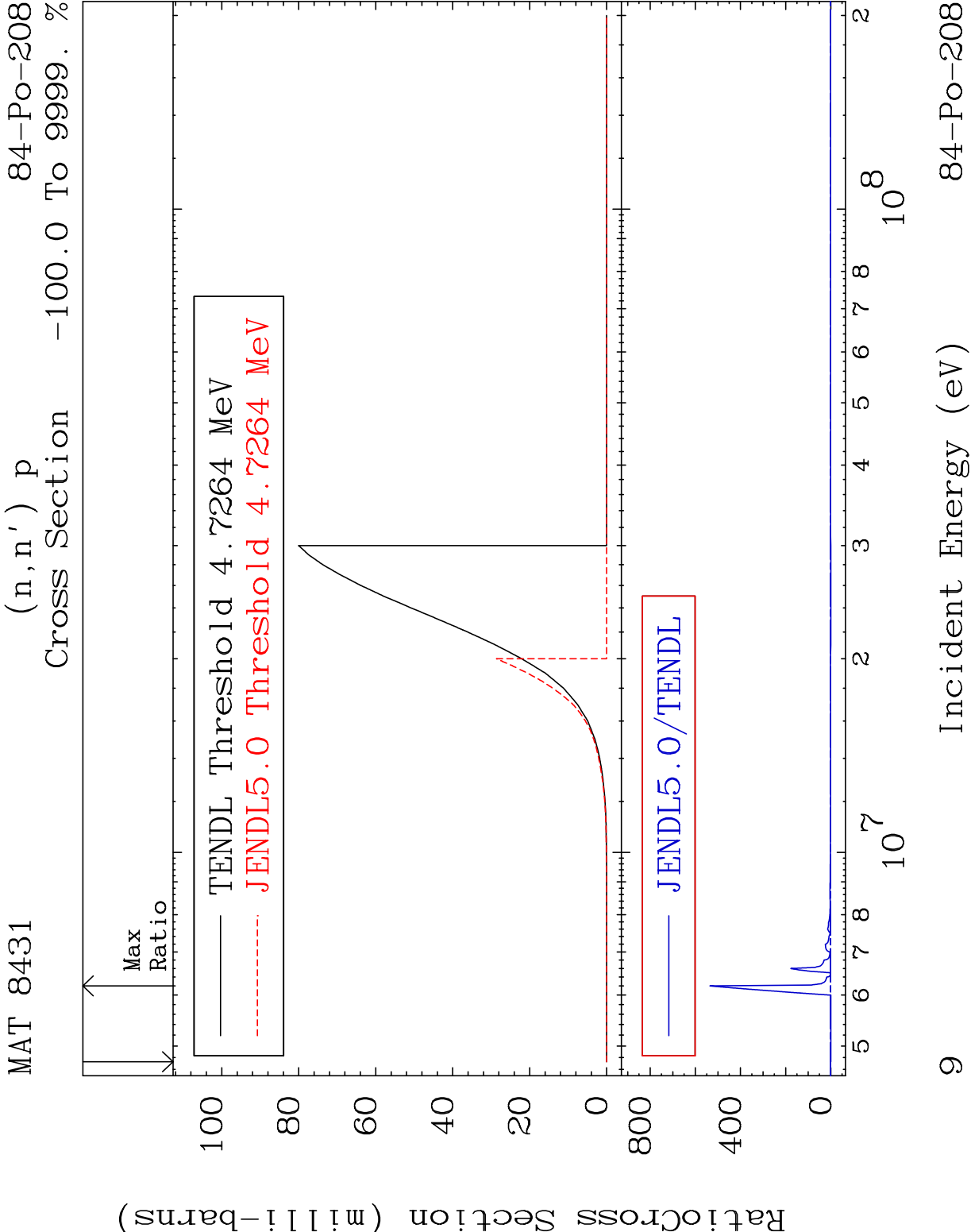


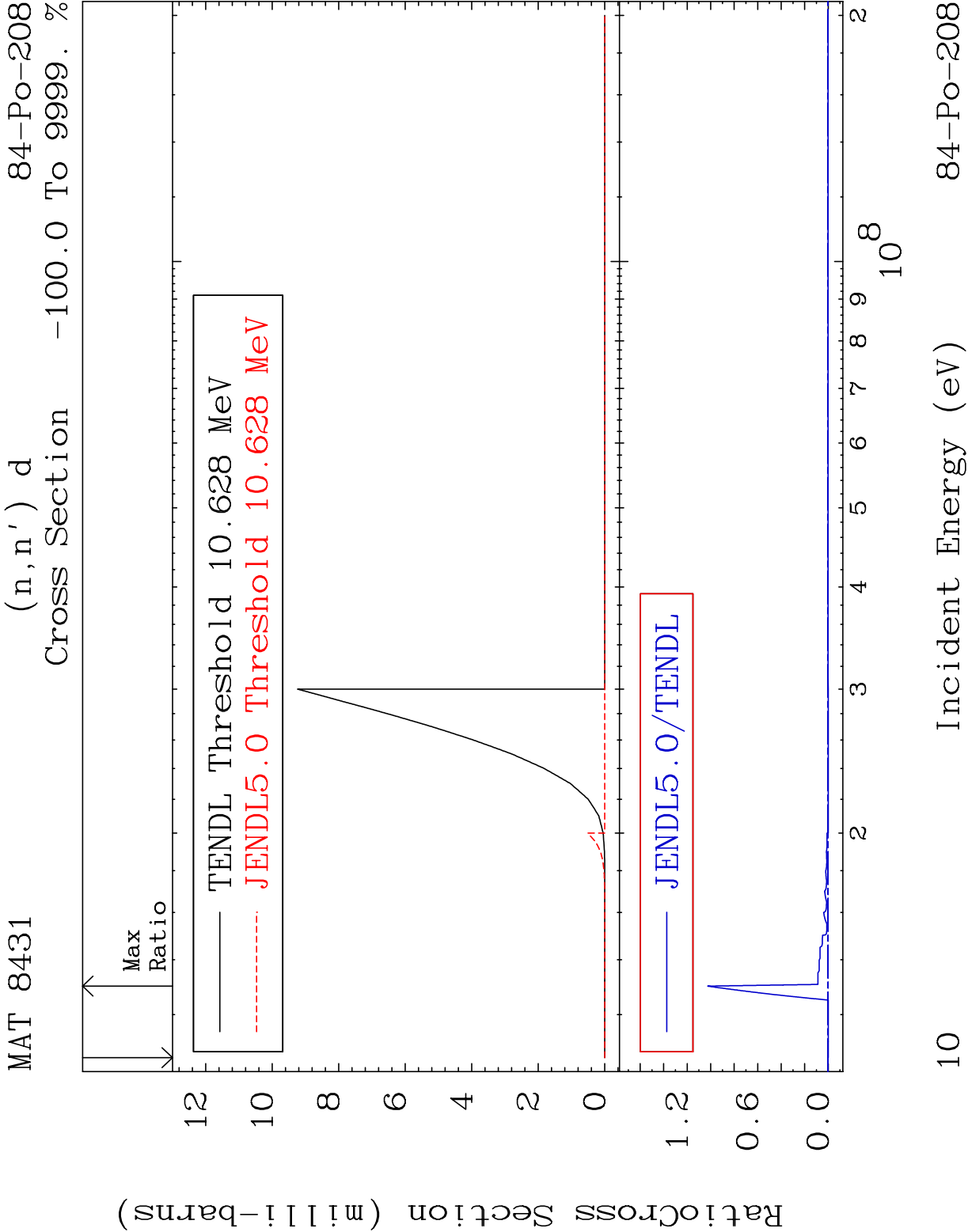


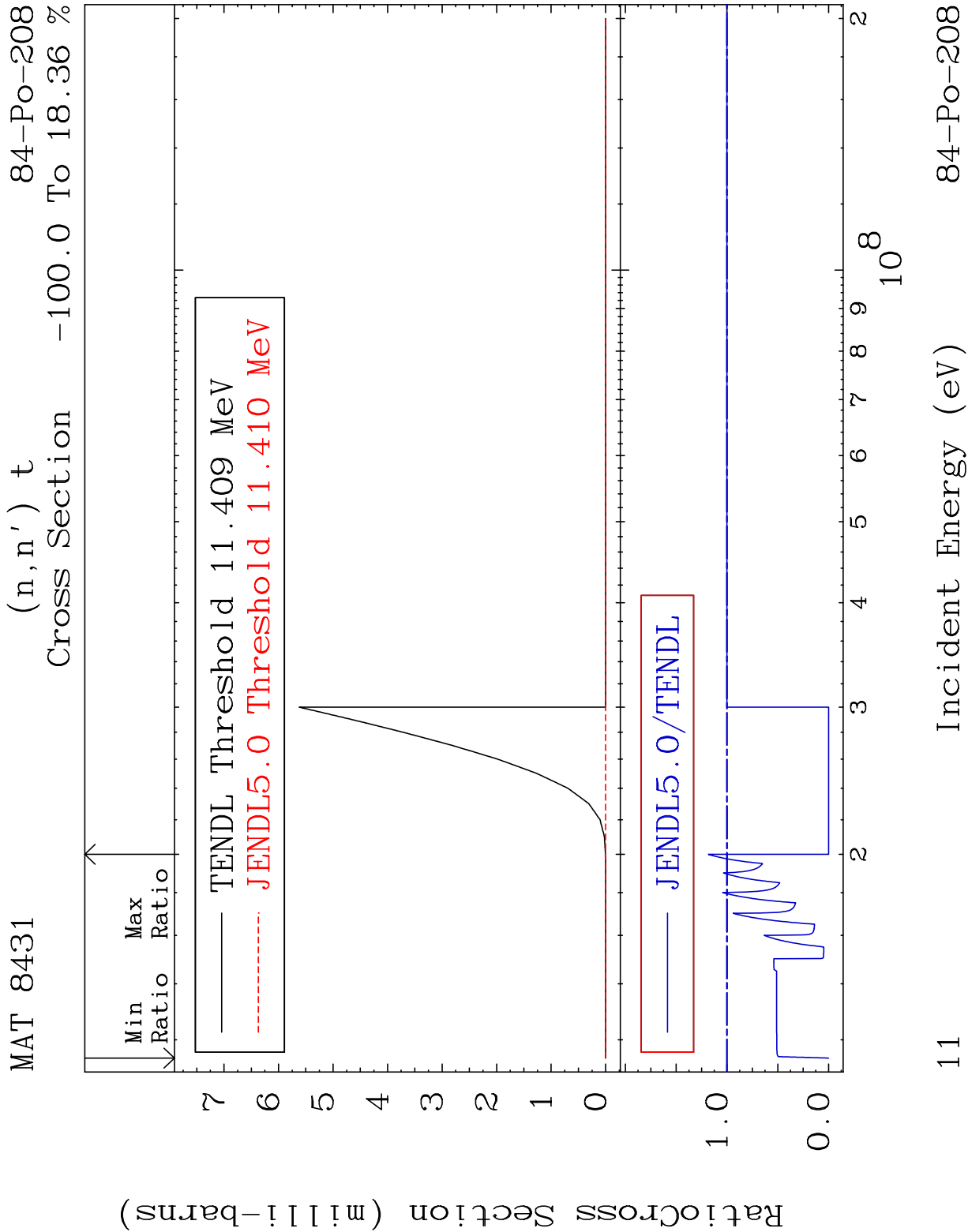


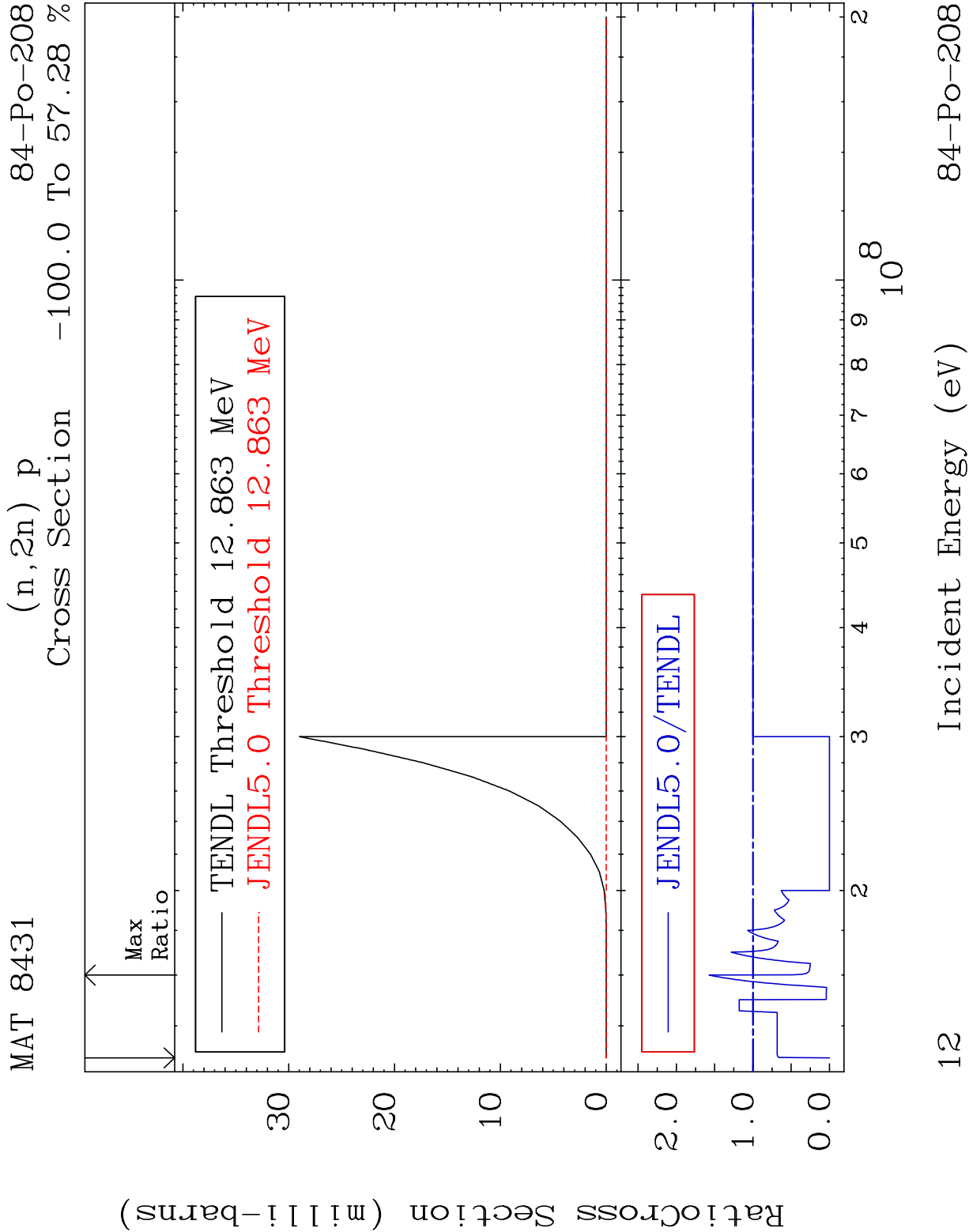




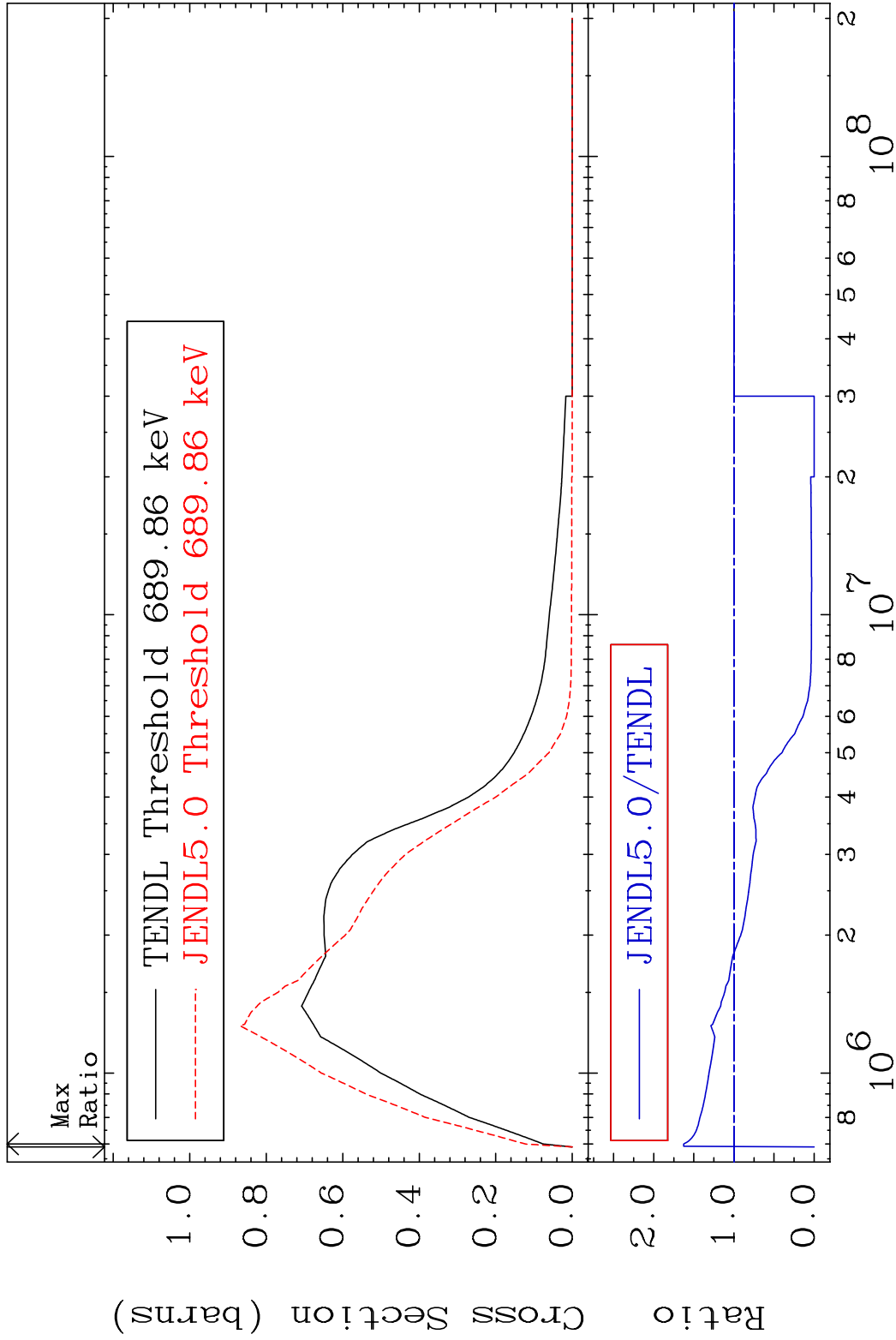




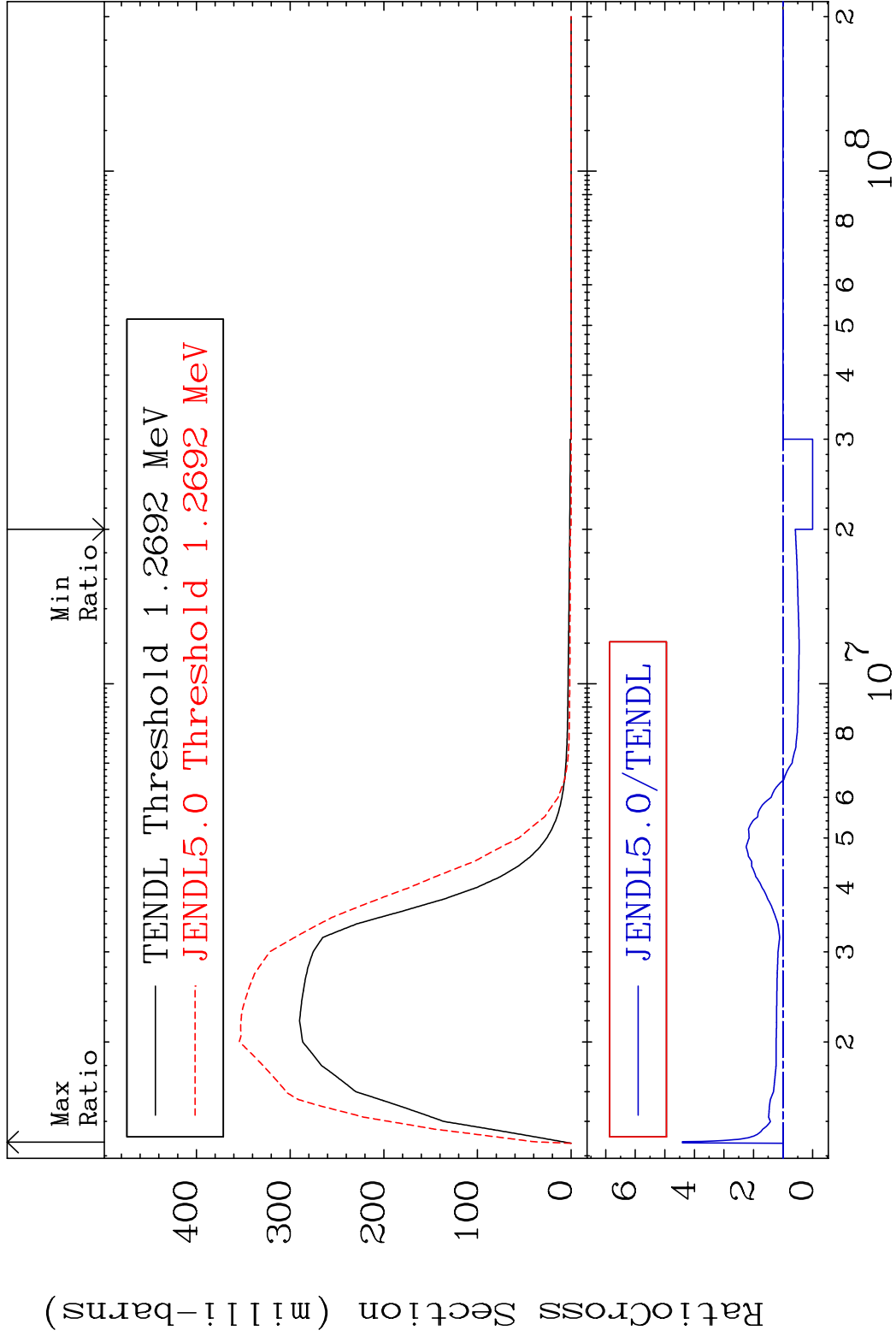


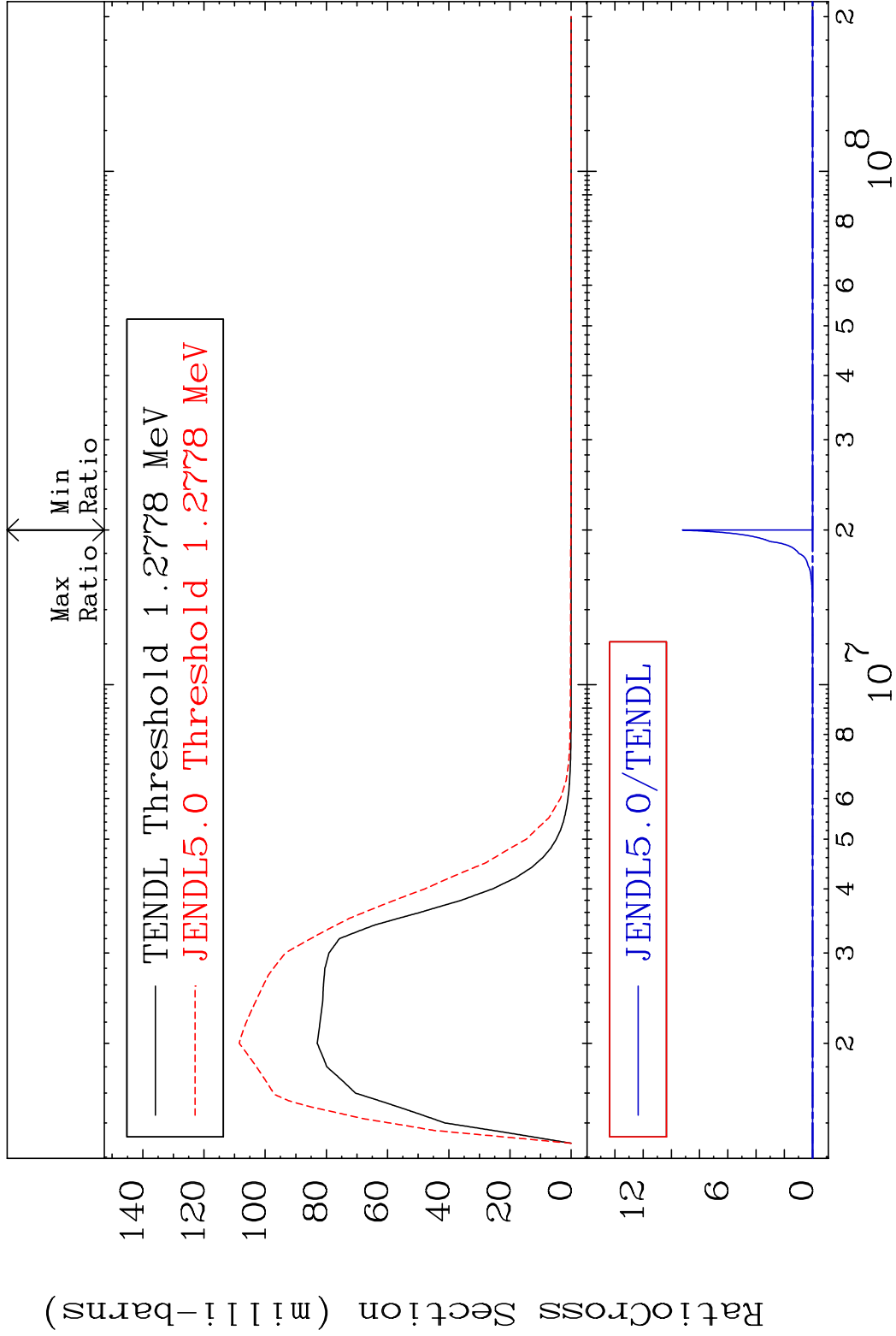


MAT 8431      MT= 51 (n,n') Level      84-Po-208  
Cross Section    -100.0 To 62.66 %



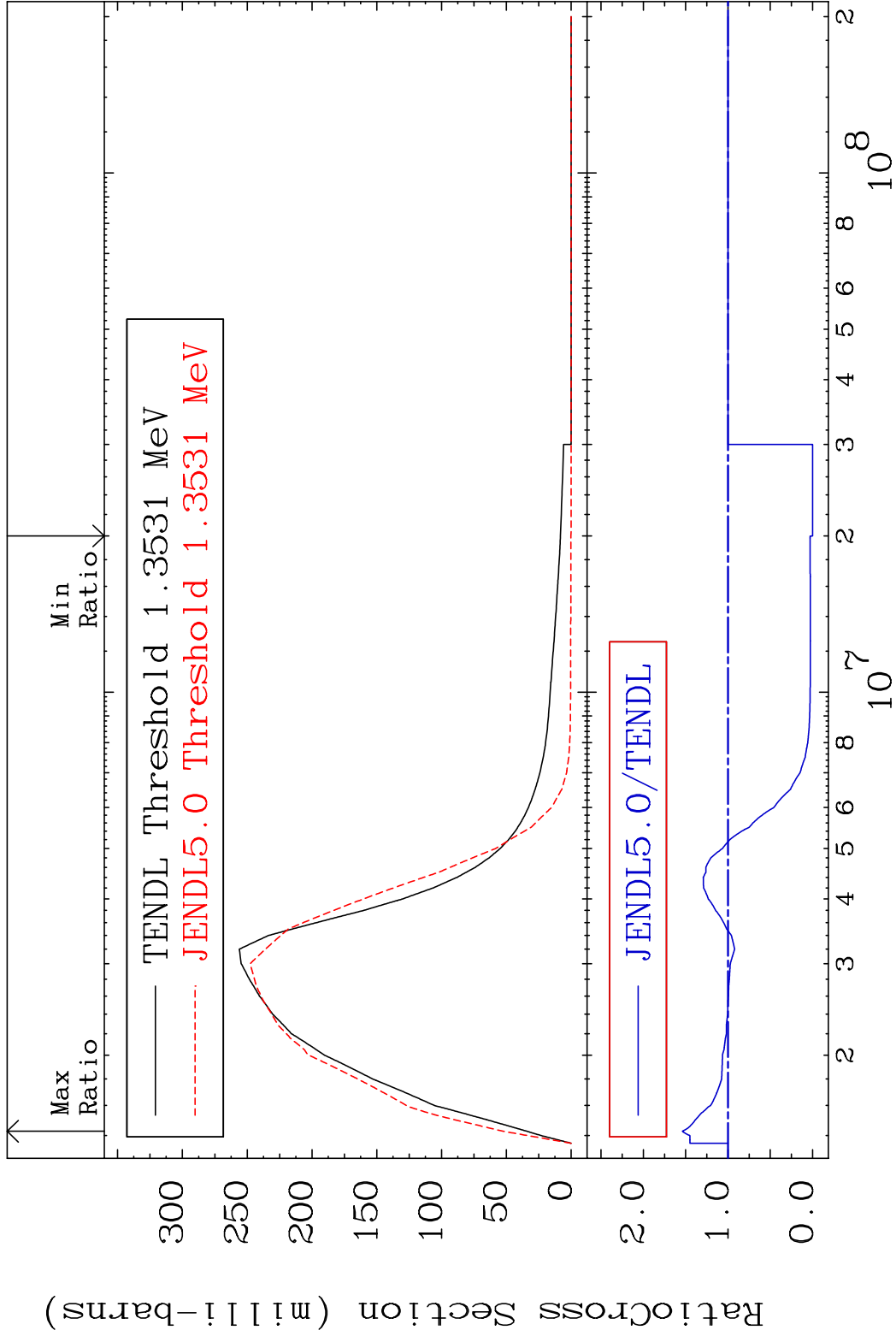
MAT 8431      MT= 52 (n,n') Level      84-Po-208  
Cross Section    -100.0 To 340.7 %

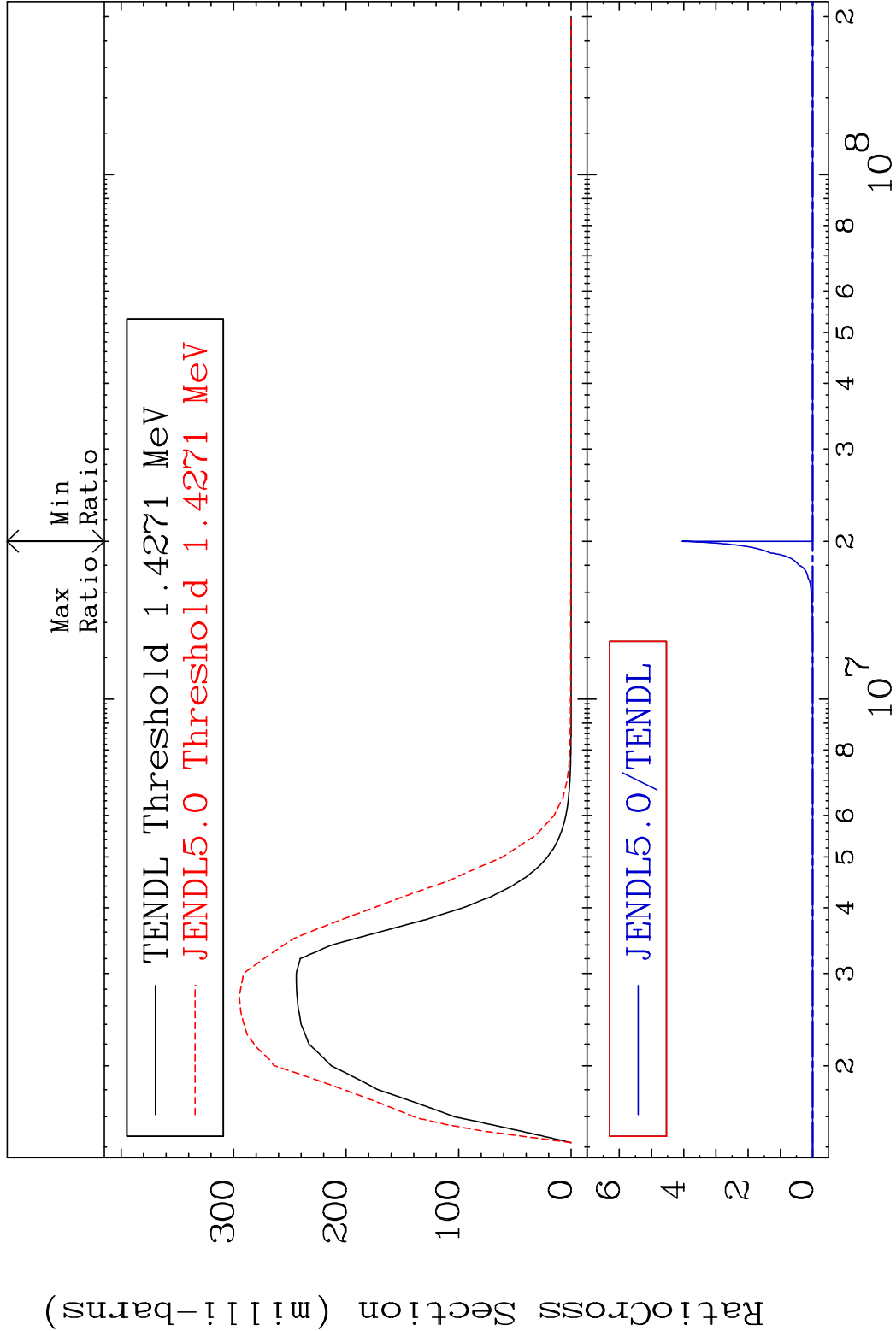




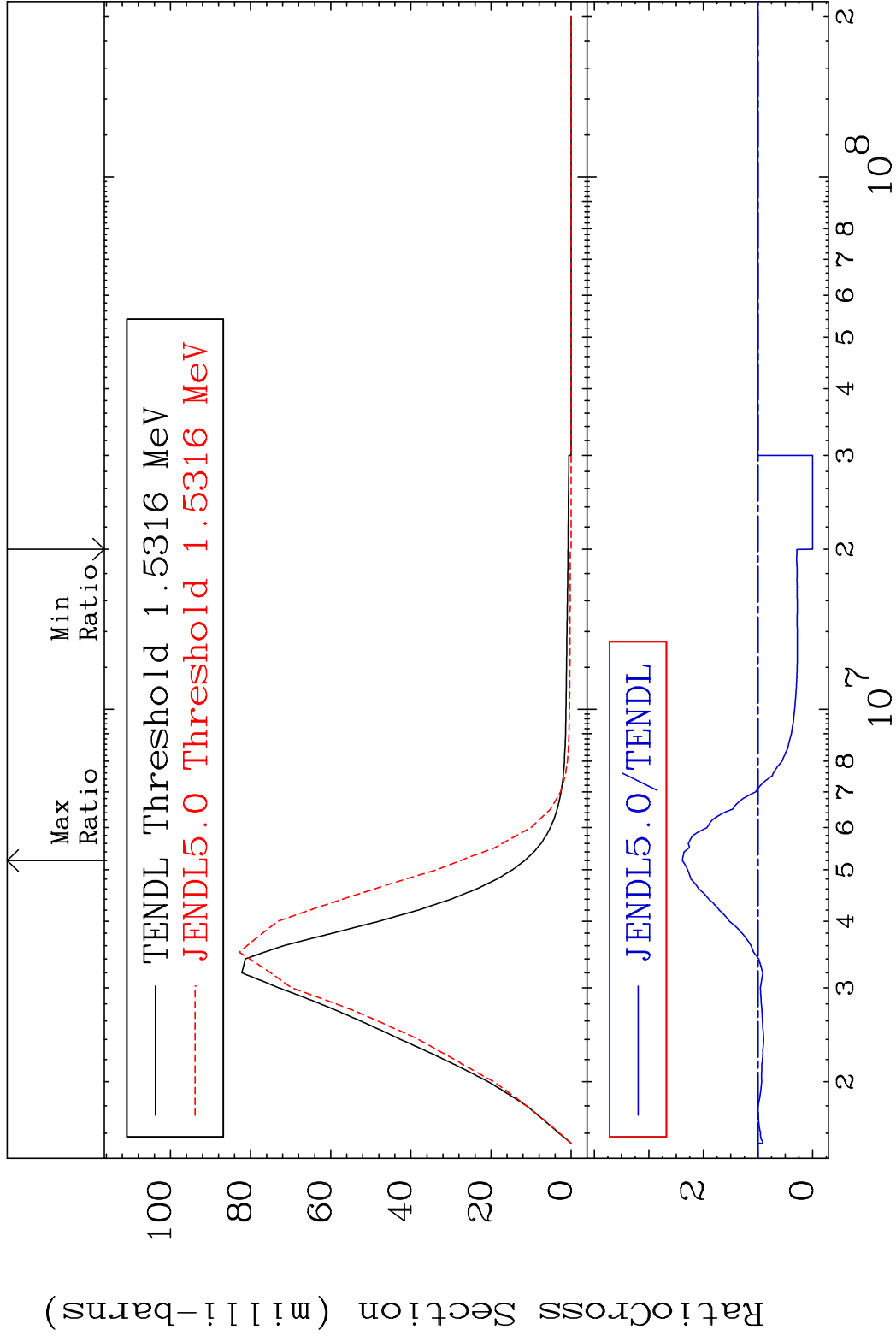


MAT 8431      MT= 54 (n,n') Level      84-Po-208  
Cross Section      -100.0 To 53.90 %



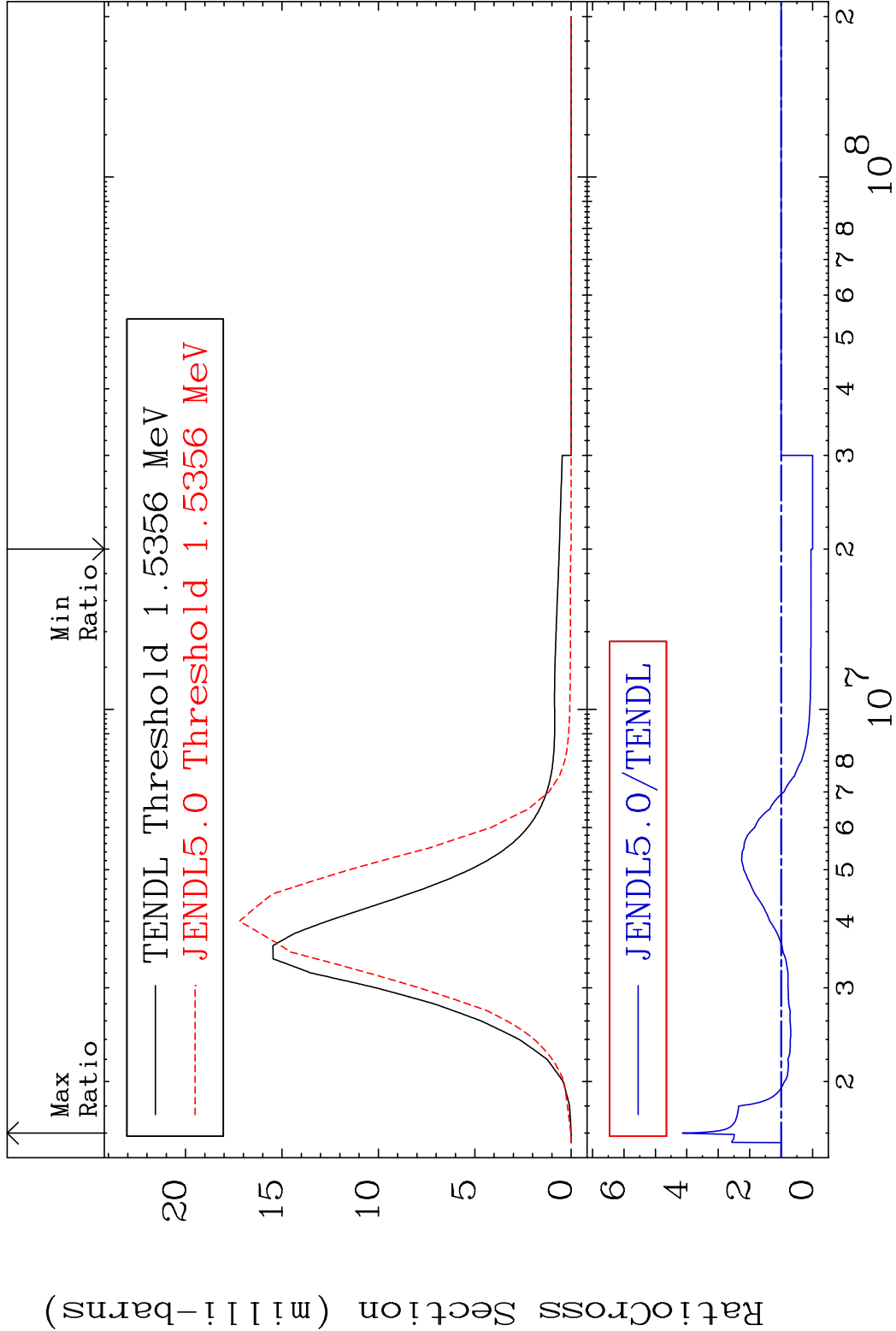


MAT 8431 MT= 56 (n,n') Level 84-Po-208  
Cross Section -100.0 To 138.6 %

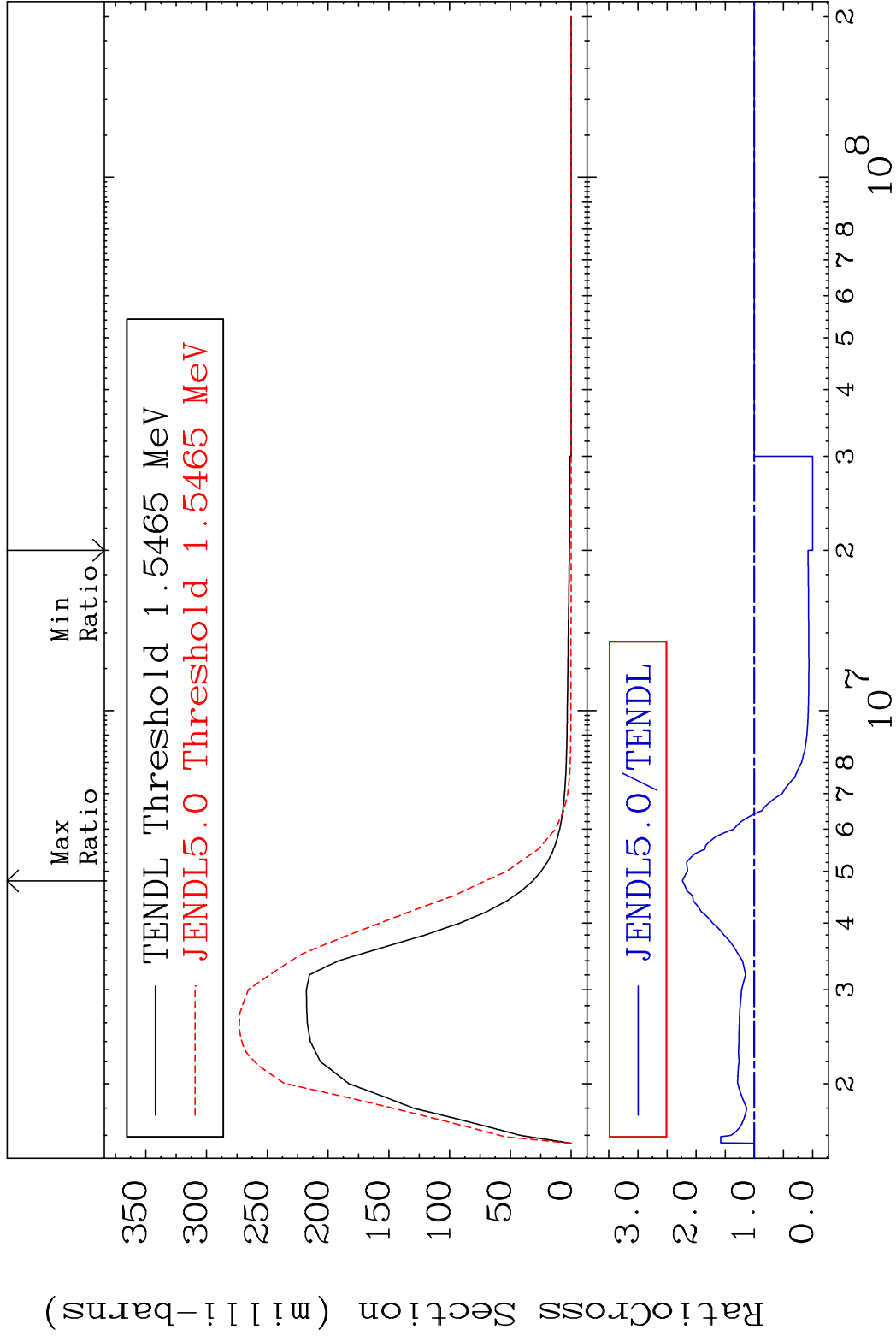


18 Incident Energy (eV) 84-Po-208

MAT 8431      MT= 57 (n,n') Level      84-Po-208  
Cross Section    -100.0 To 314.2 %



MAT 8431 MT= 58 (n,n') Level 84-Po-208  
Cross Section -100.0 To 123.6 %

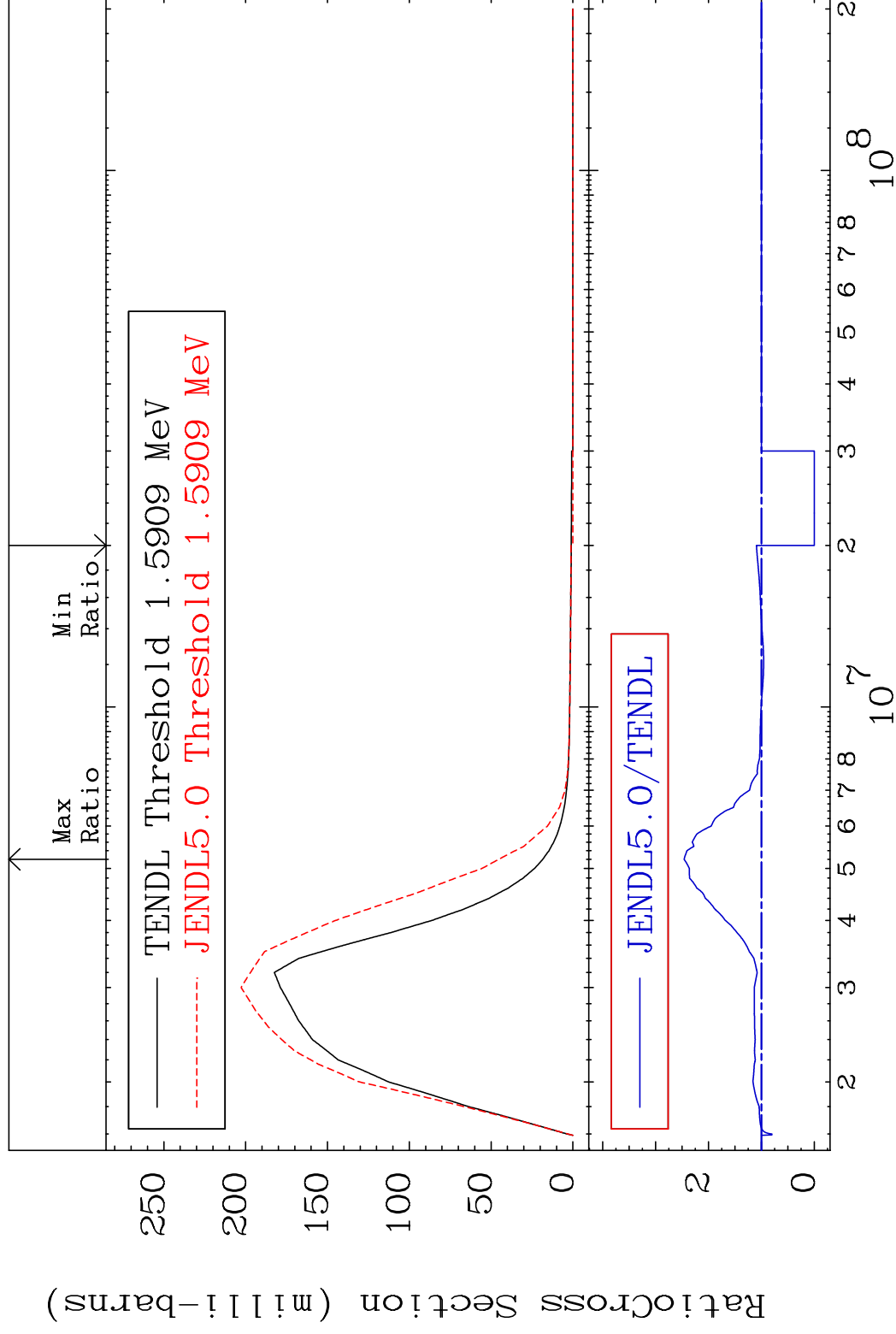


MAT 8431

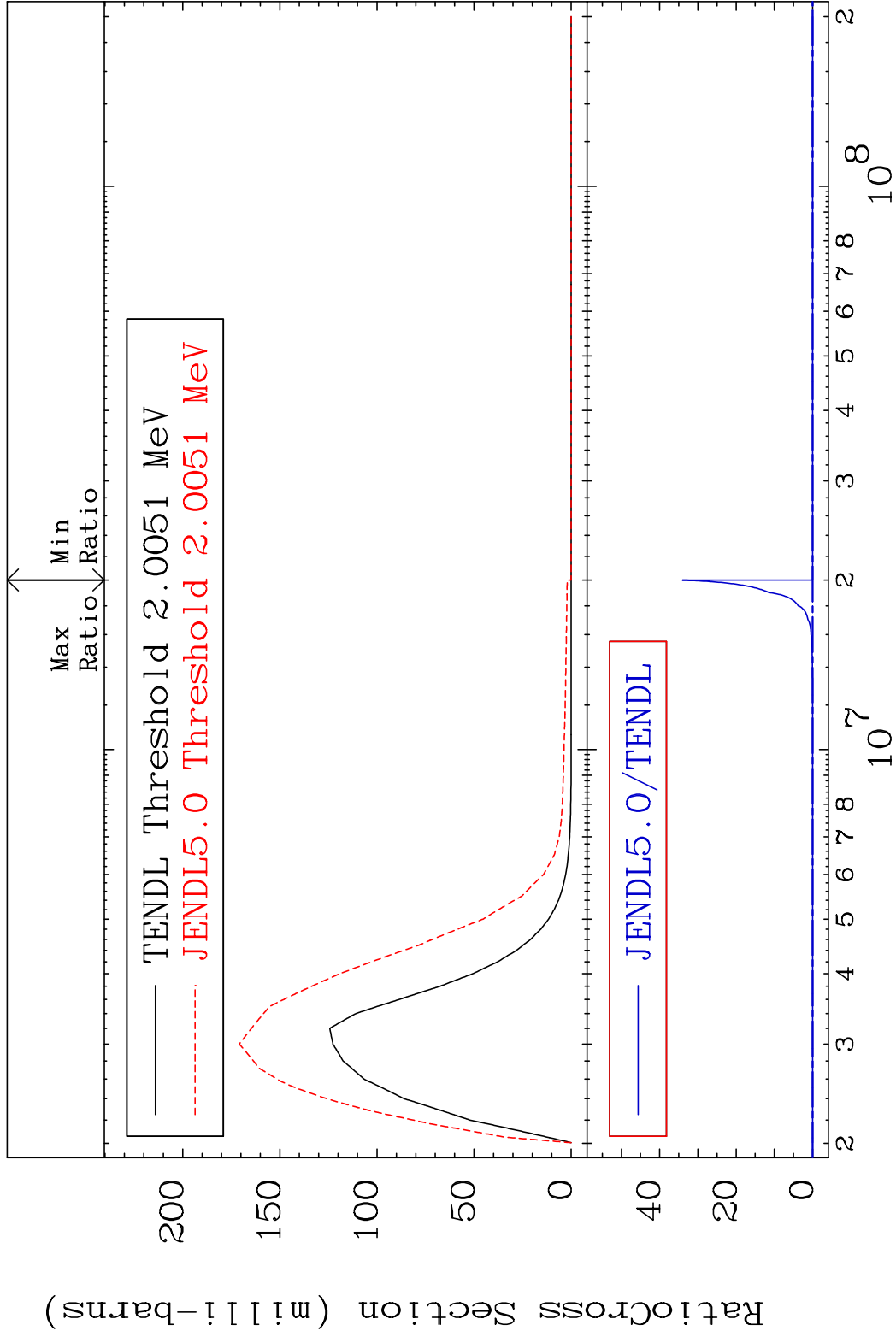
MT= 59 (n, n') Level

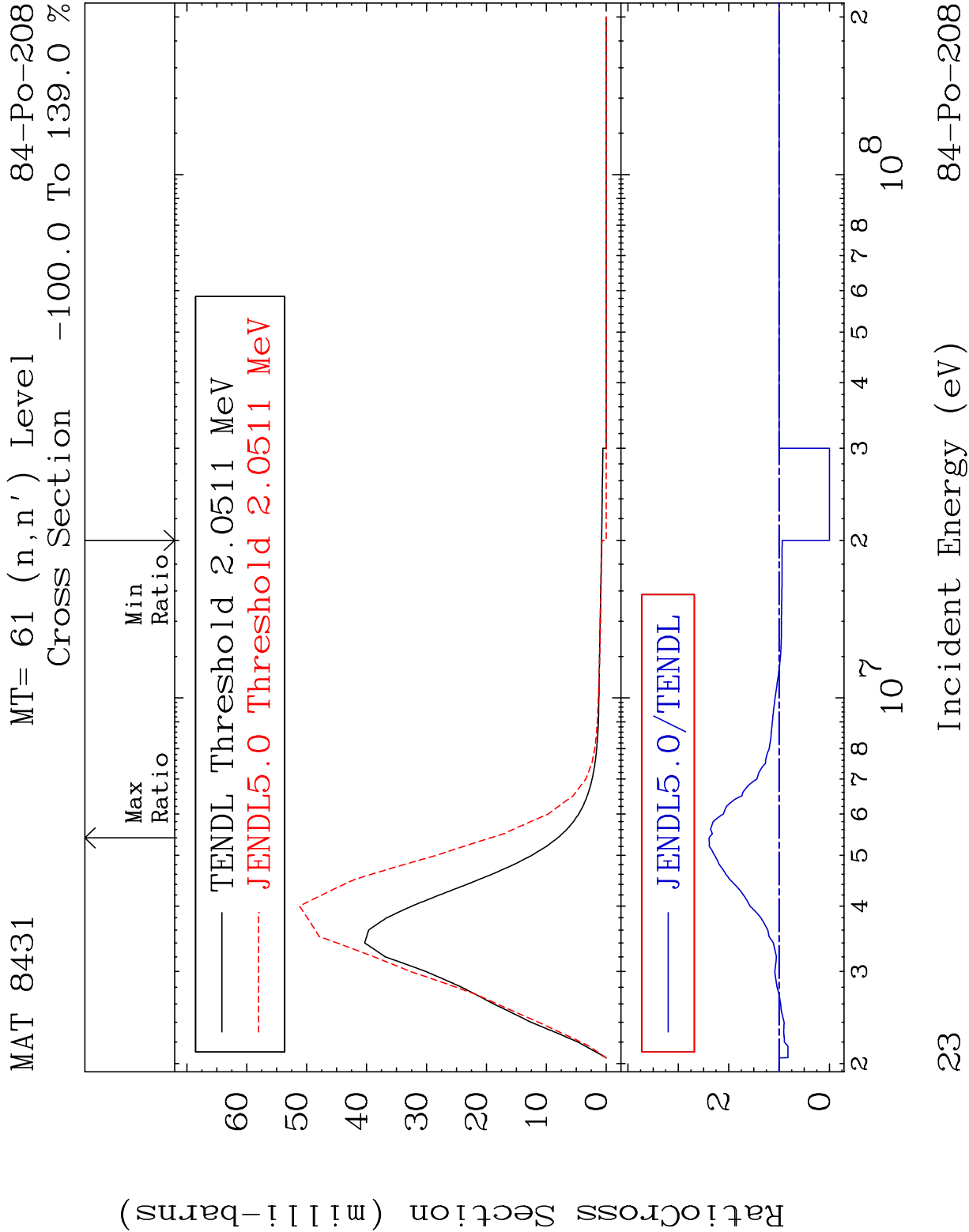
84-PO-208

| Cross Section | -100.0 To 146.2 % |
|---------------|-------------------|
|               |                   |



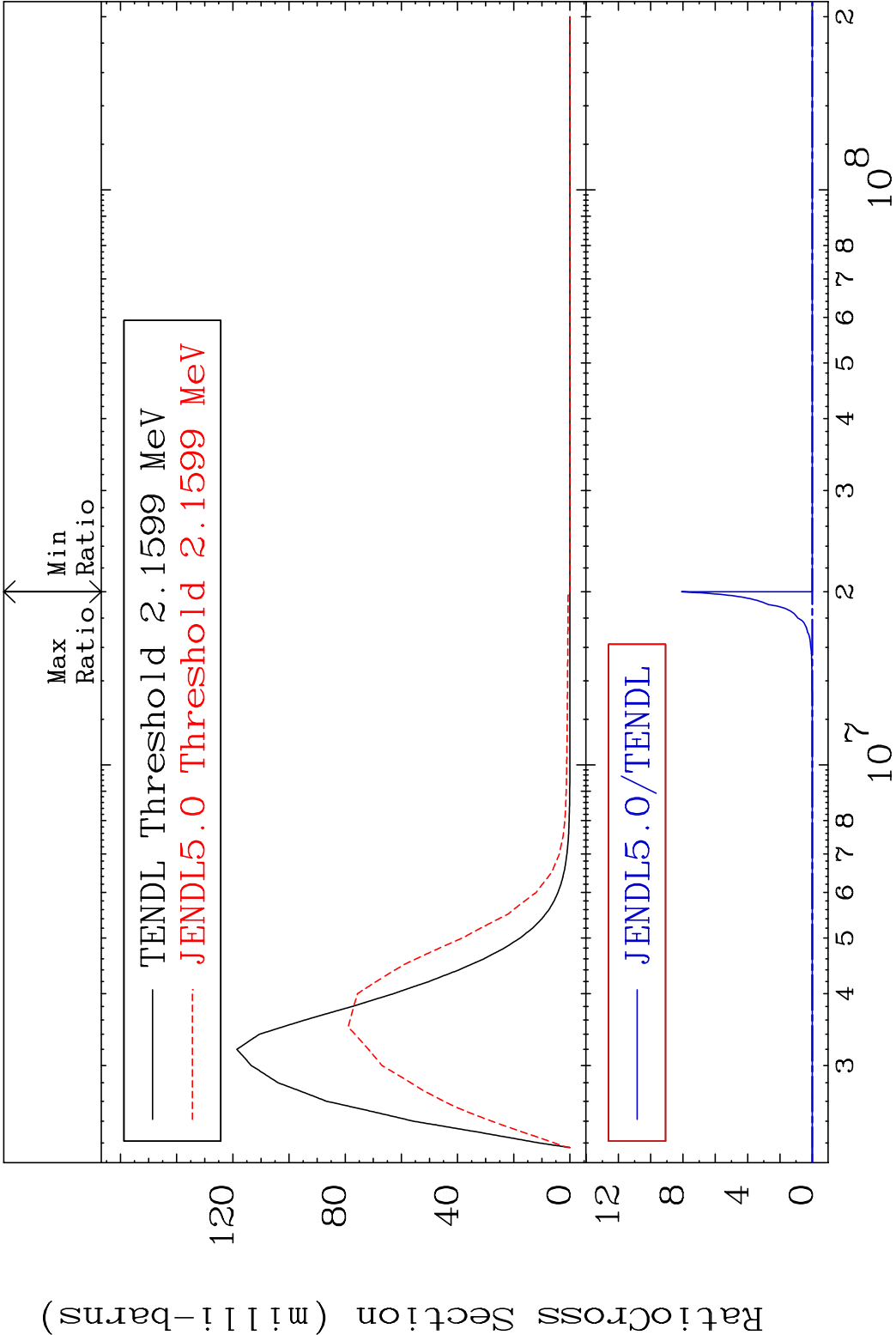
|          |               |                   |           |
|----------|---------------|-------------------|-----------|
| MAT 8431 | MT= 60 (n,n') | Level             | 84-Po-208 |
|          | Cross Section | -100.0 To 9999. % |           |

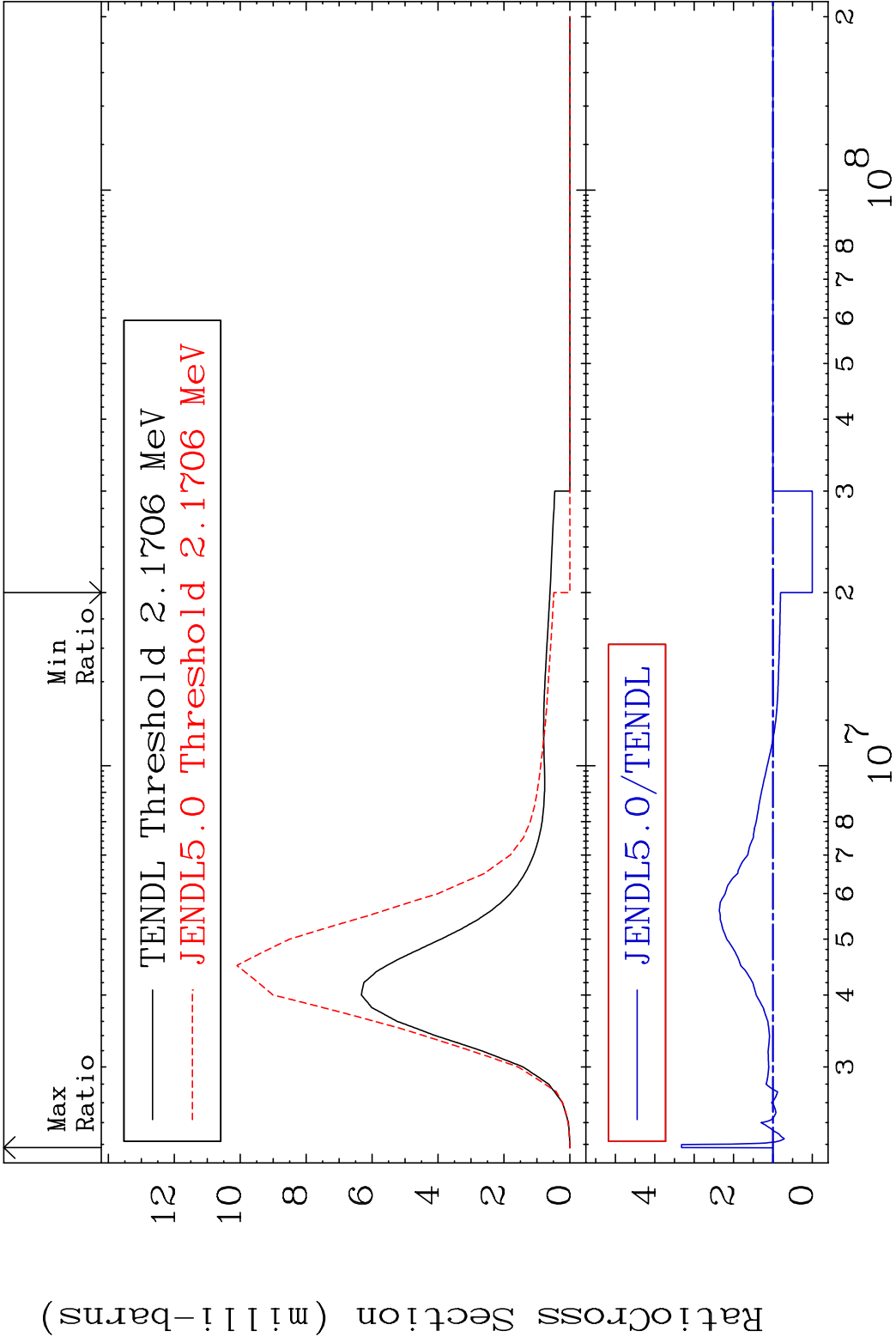




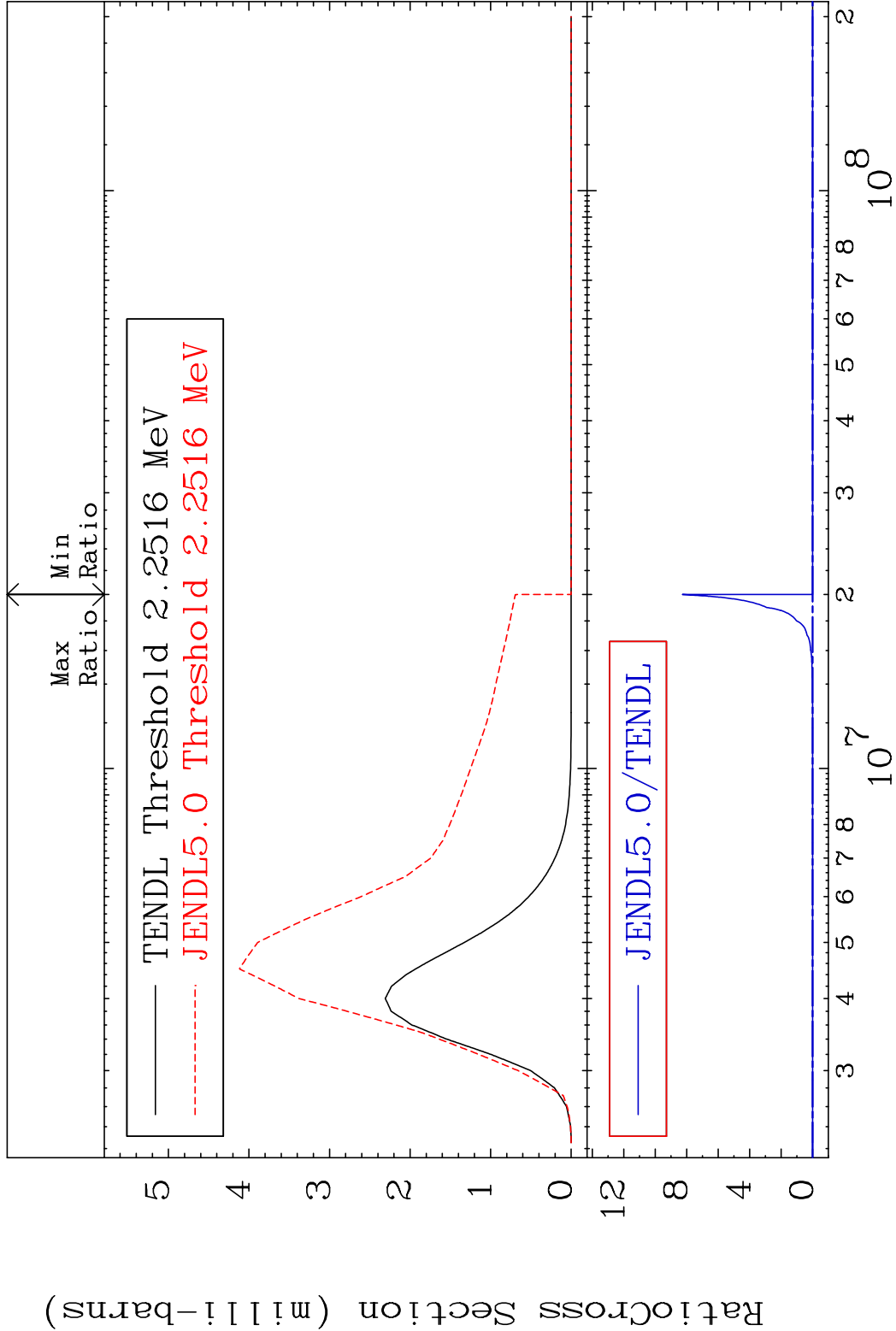


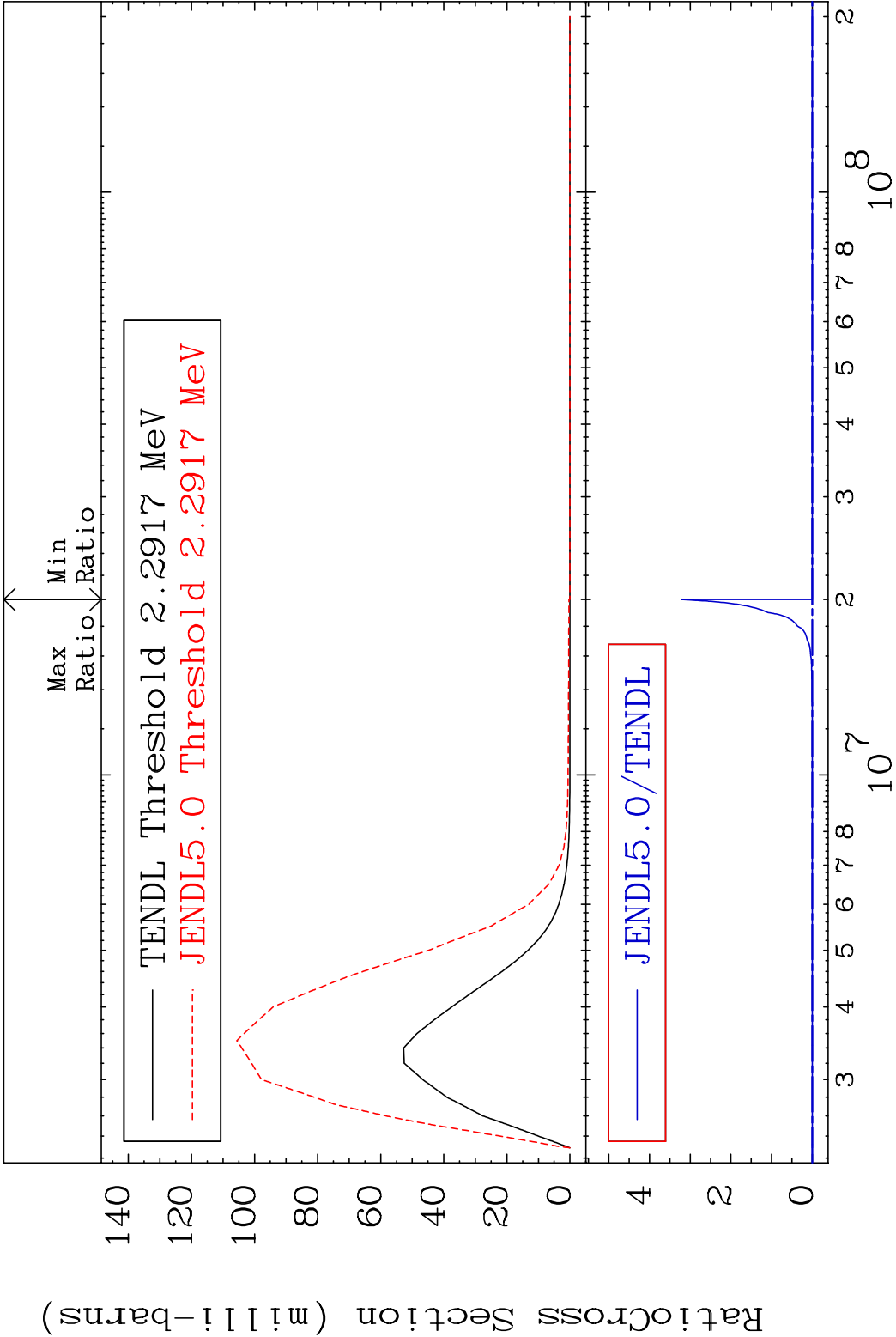
MAT 8431      MT= 62 (n,n') Level      84-Po-208  
Cross Section    -100.0 To 9999. %

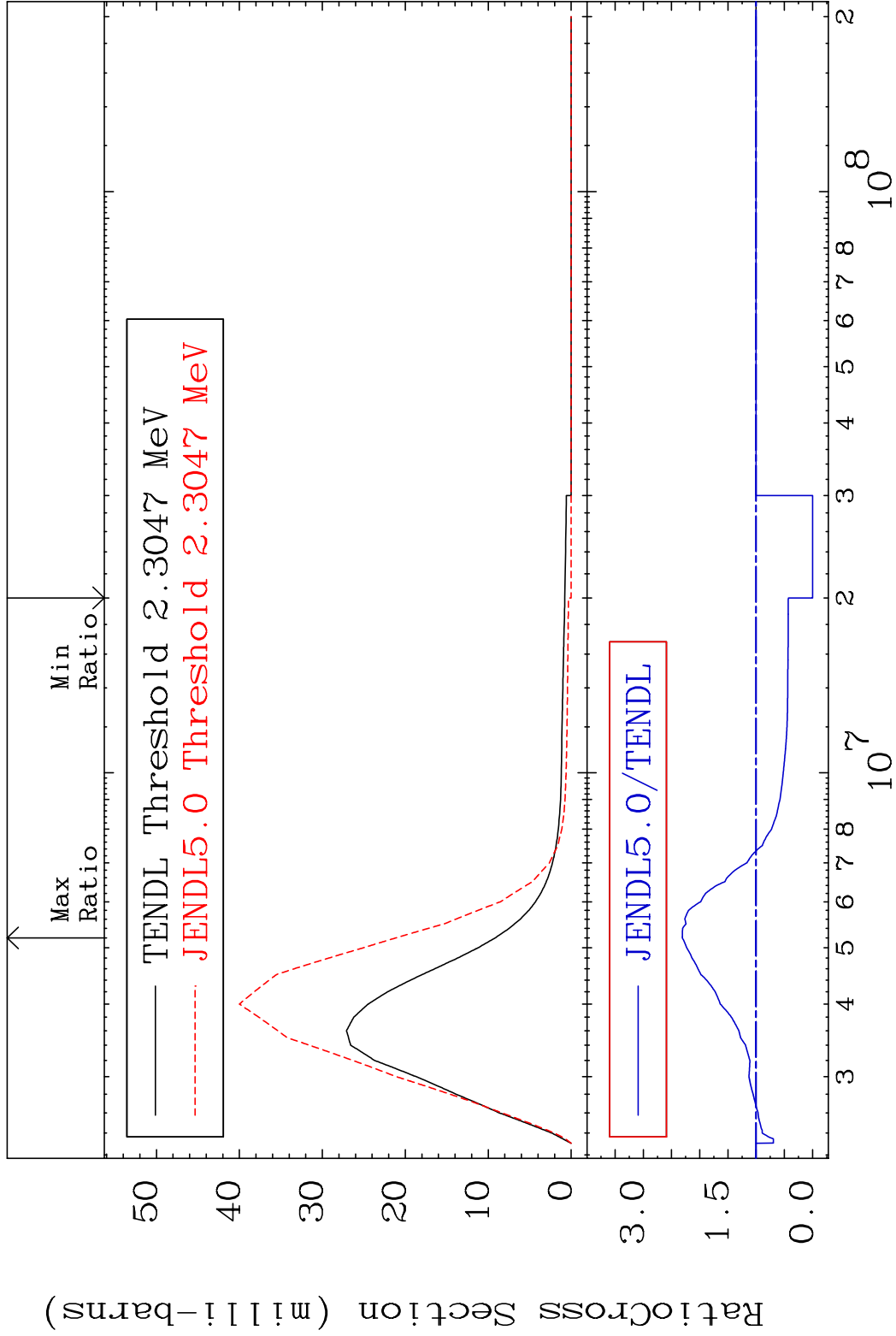


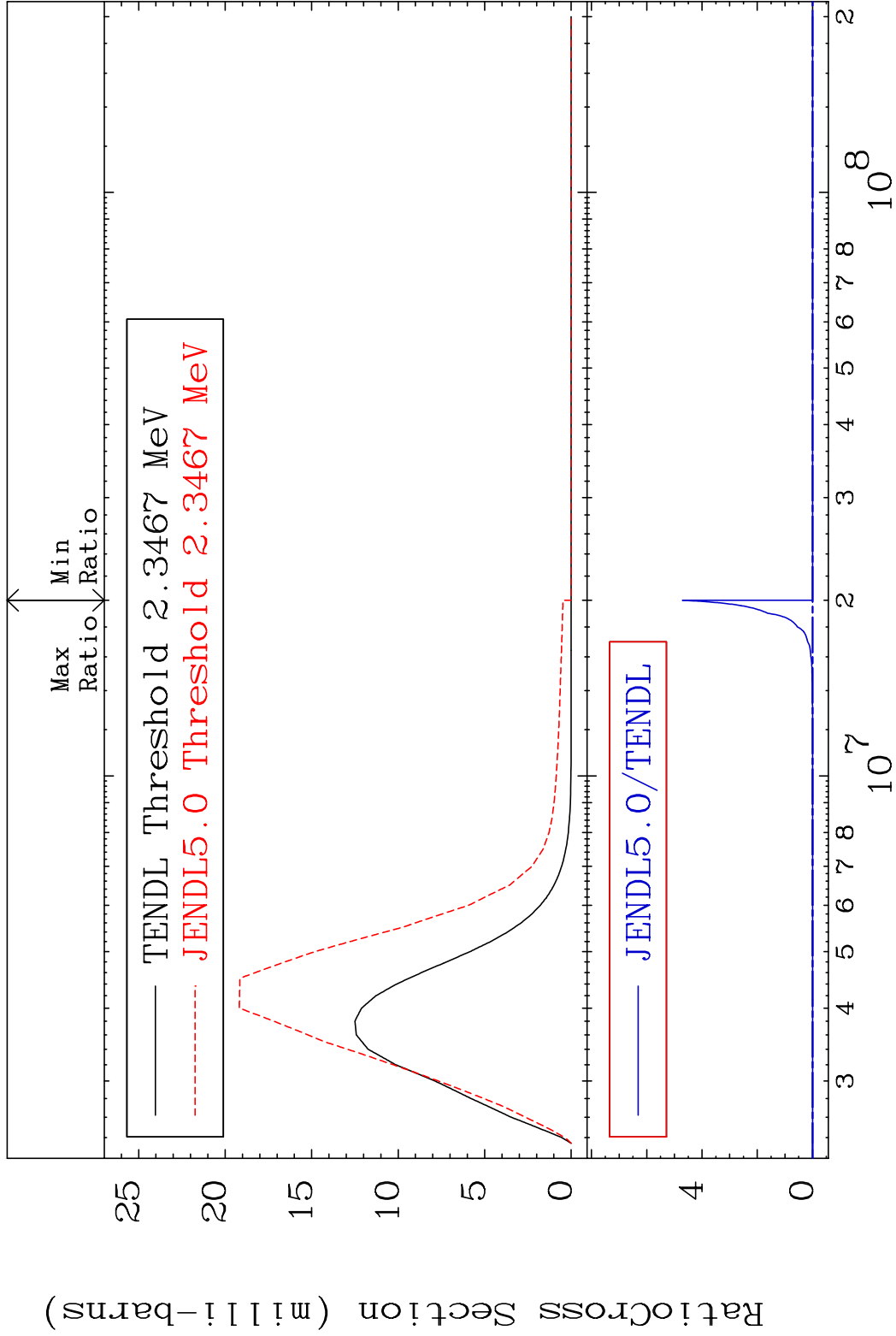


Cross Section      -100.0 To 9999. %

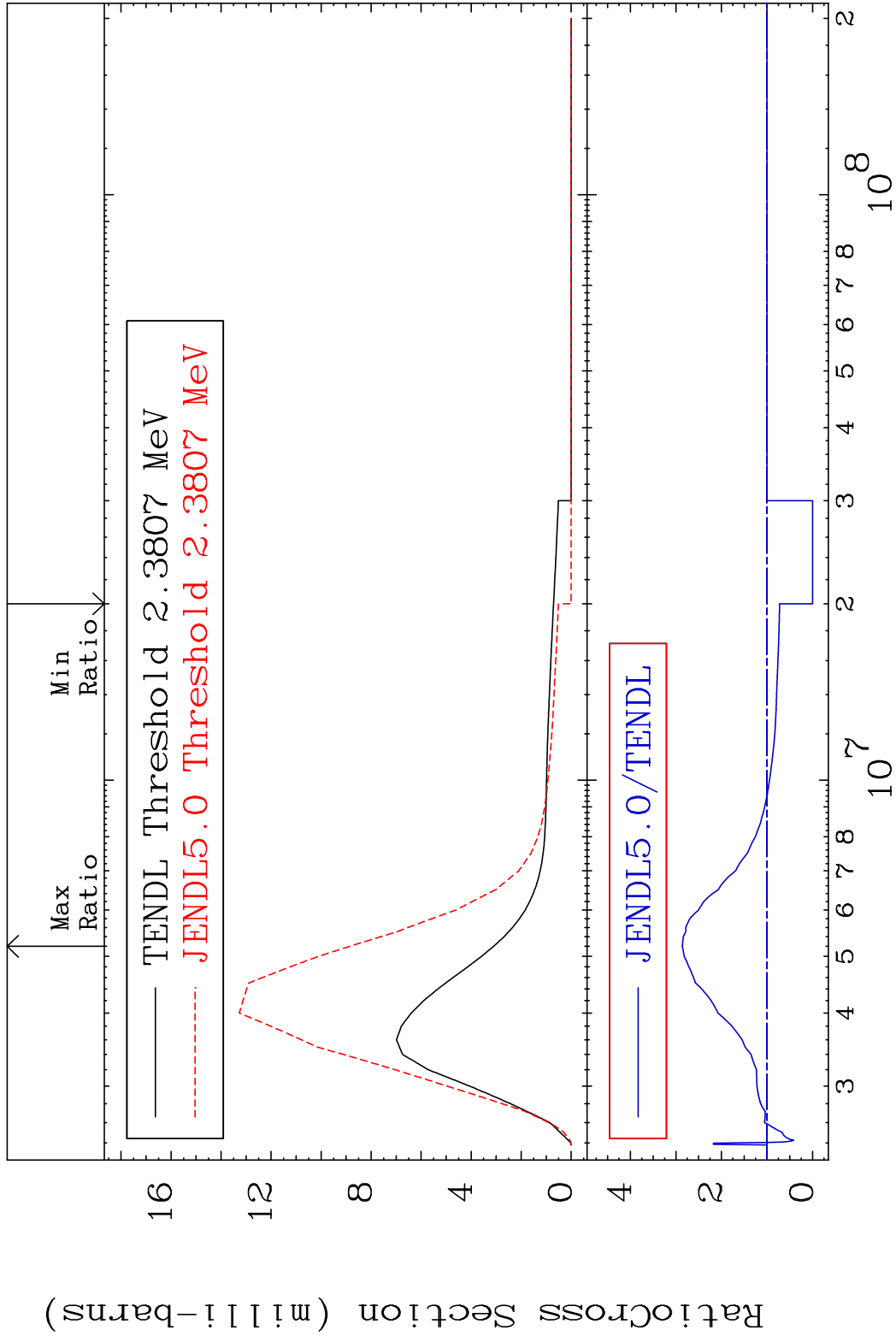




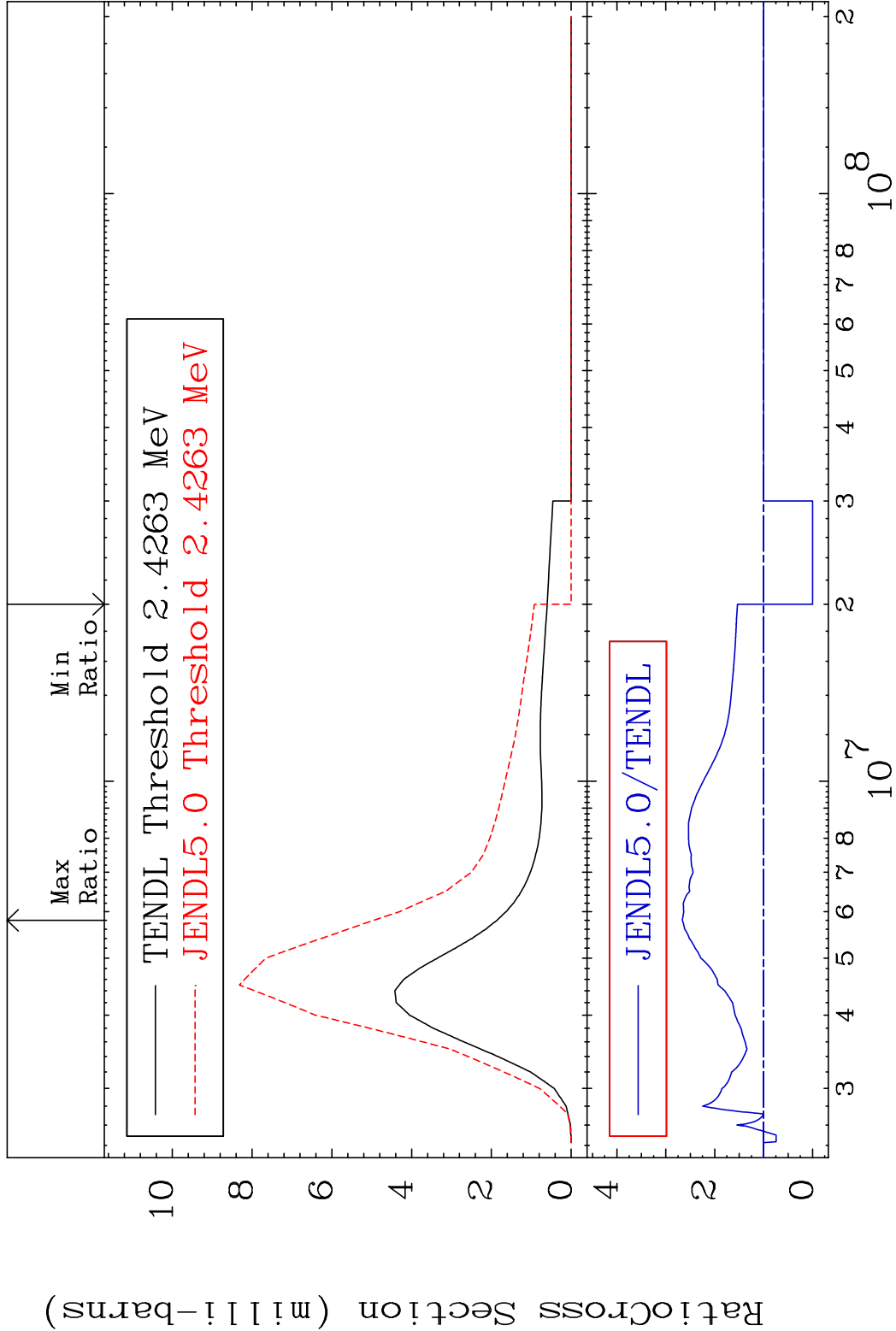




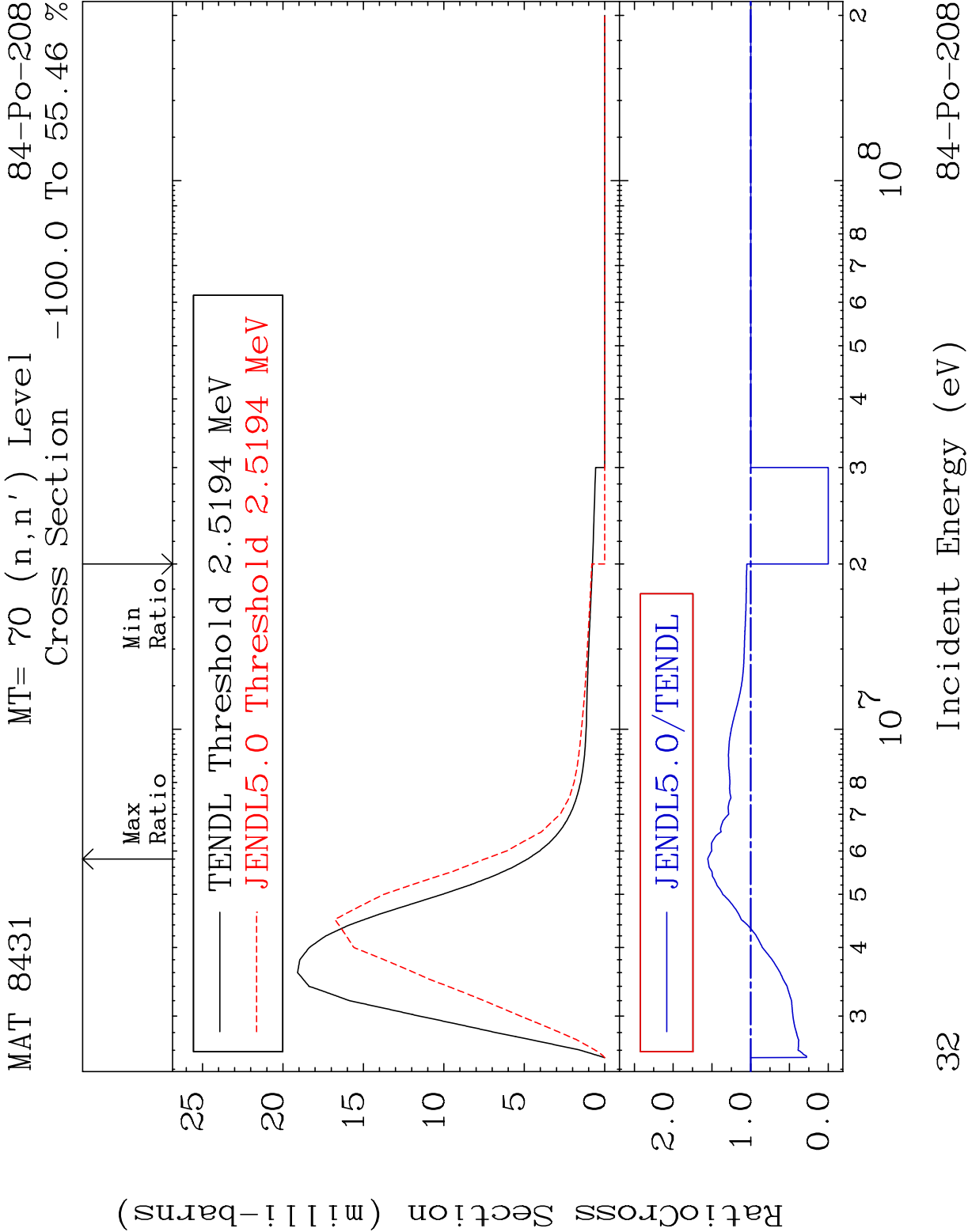
MAT 8431      MT= 68 (n,n') Level      84-Po-208  
 Cross Section      -100.0 To 185.8 %

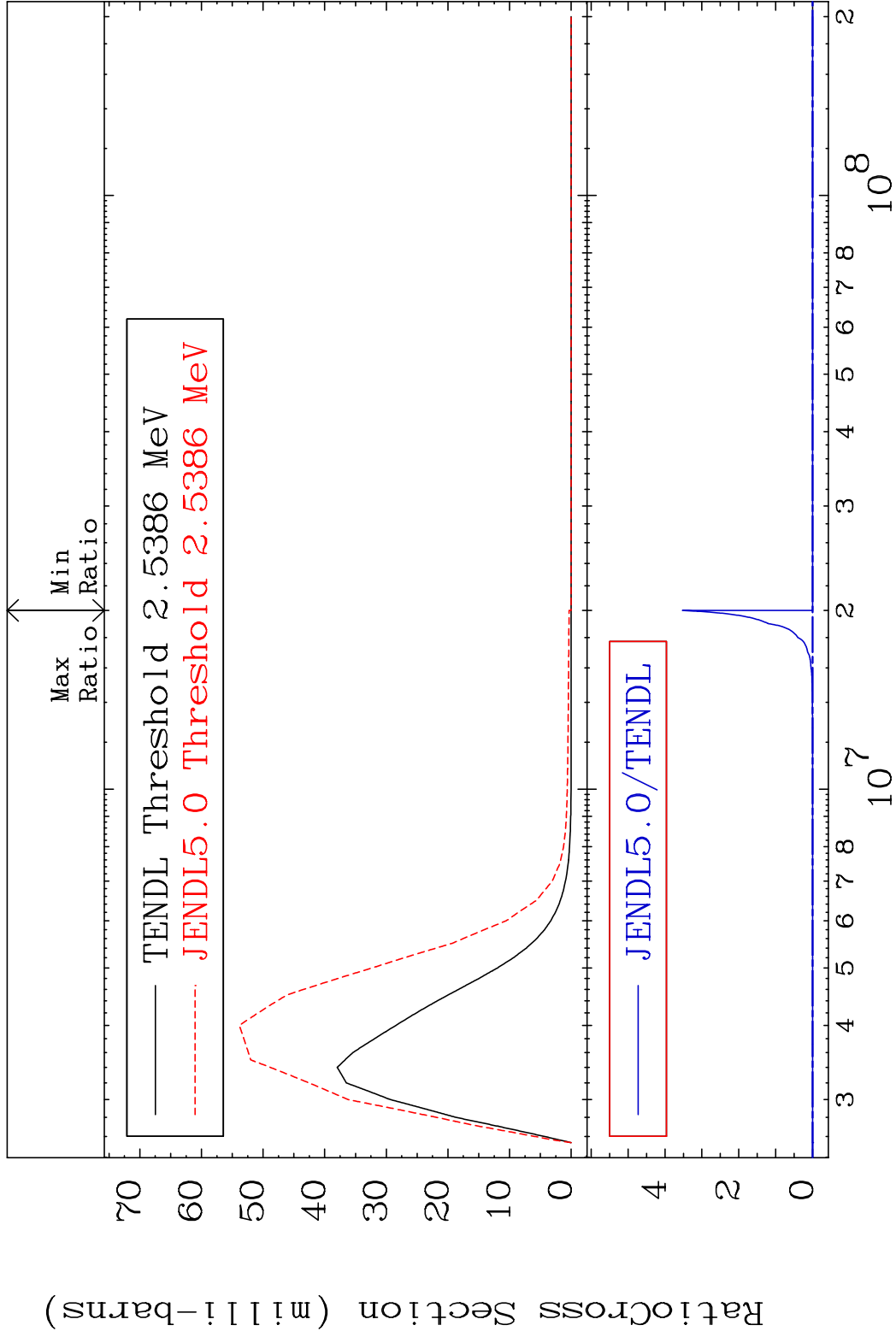


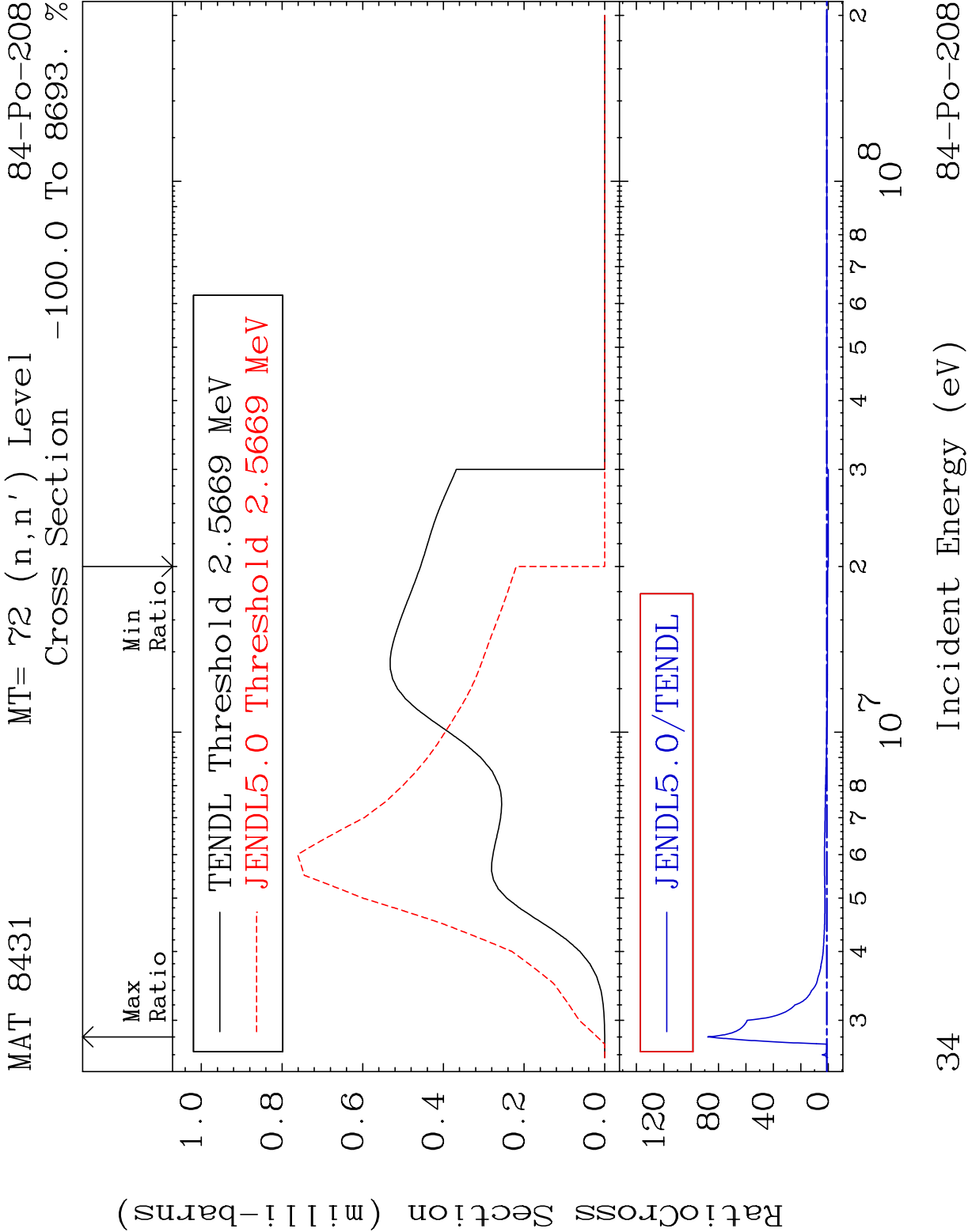
MAT 8431      MT= 69 (n,n') Level      84-Po-208  
 Cross Section      -100.0 To 166.2 %



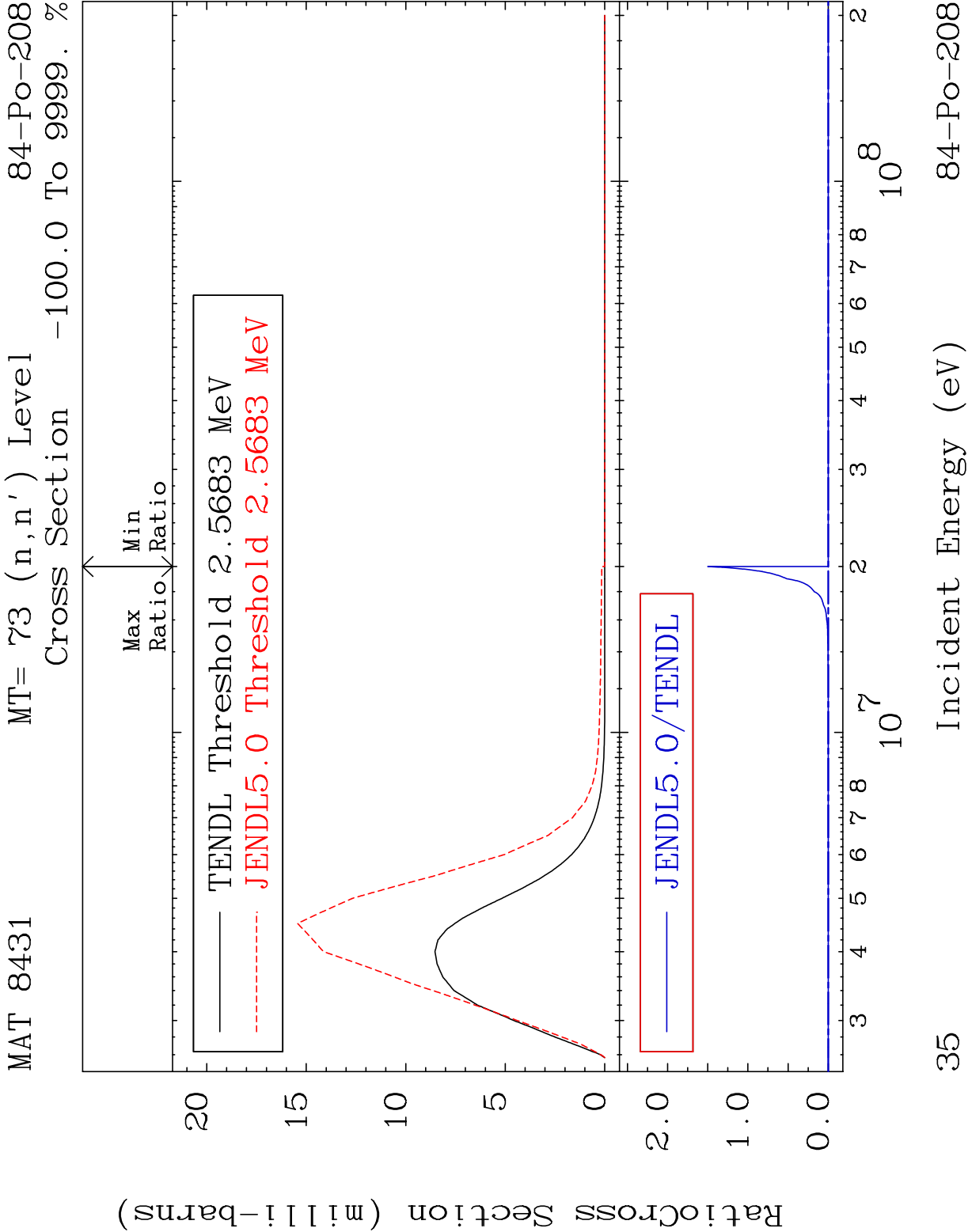


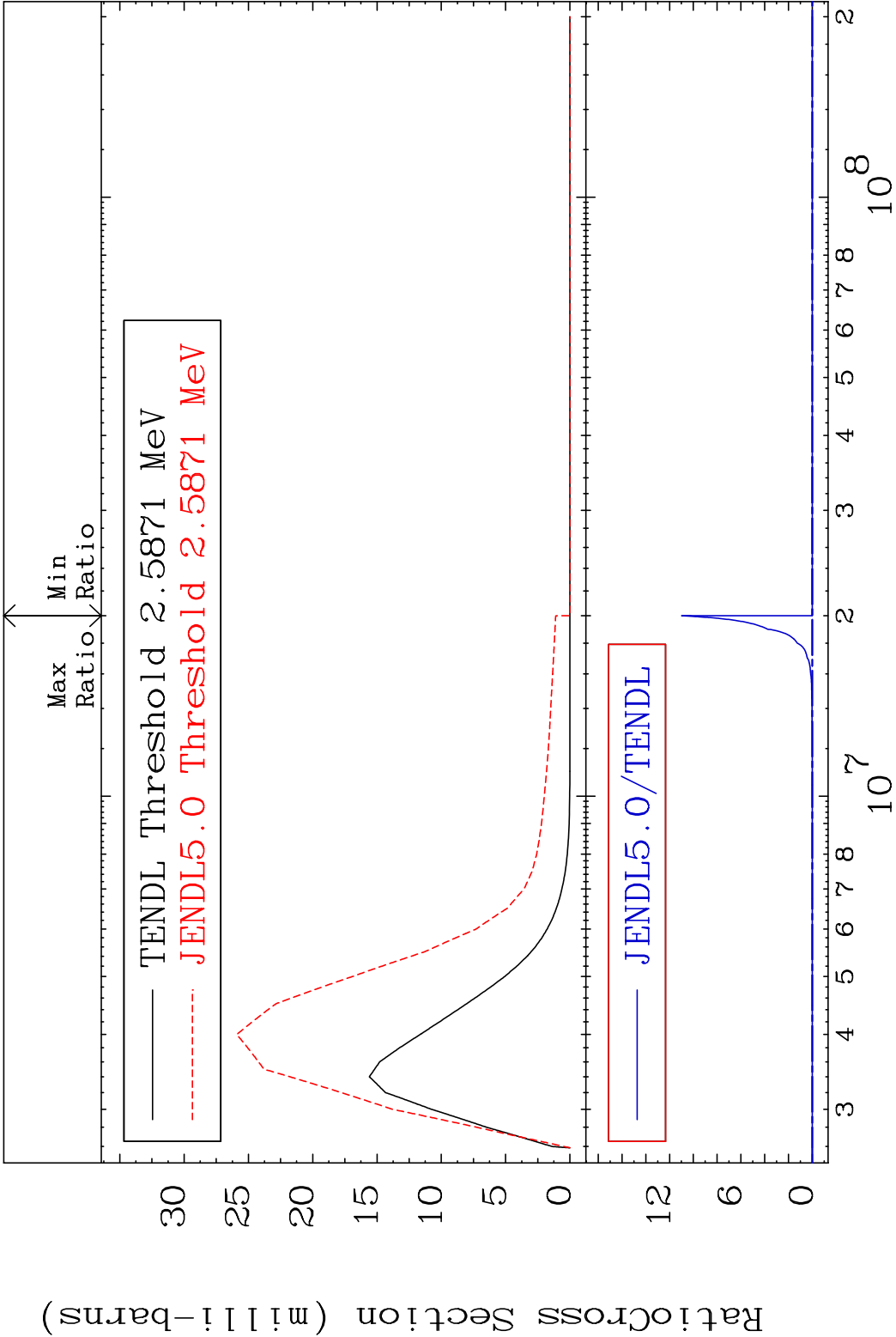


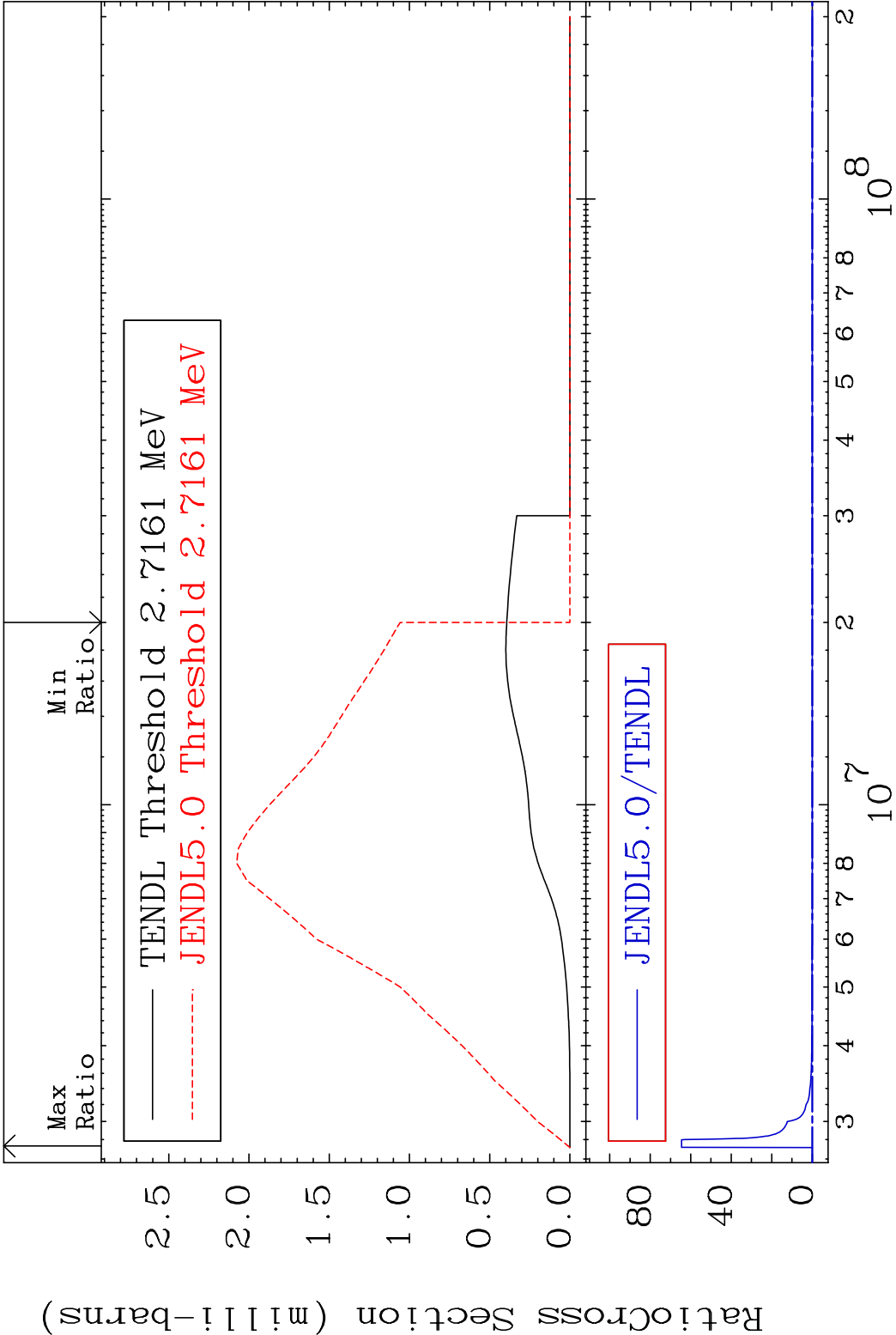


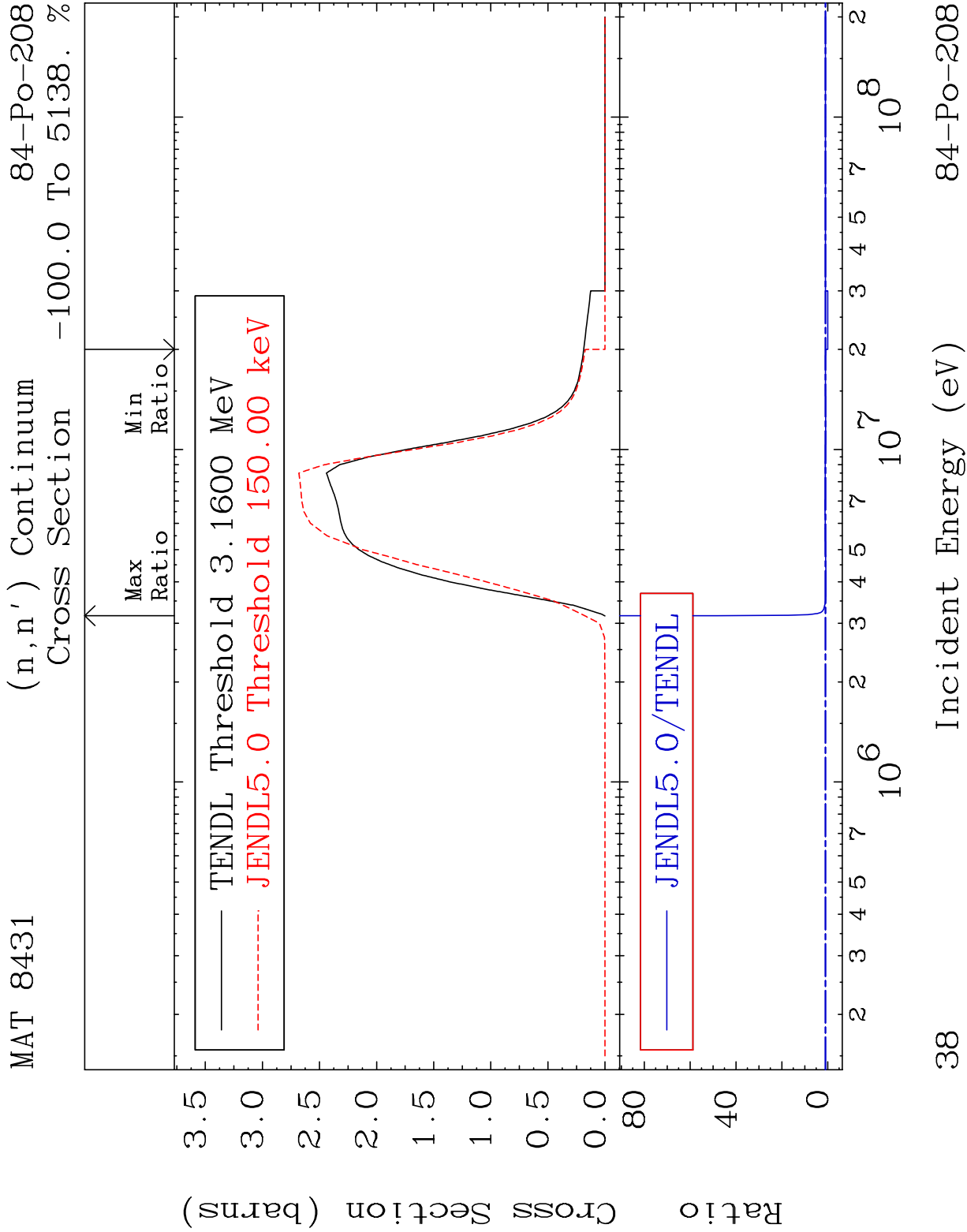


RatioCross Section (milli-barns)







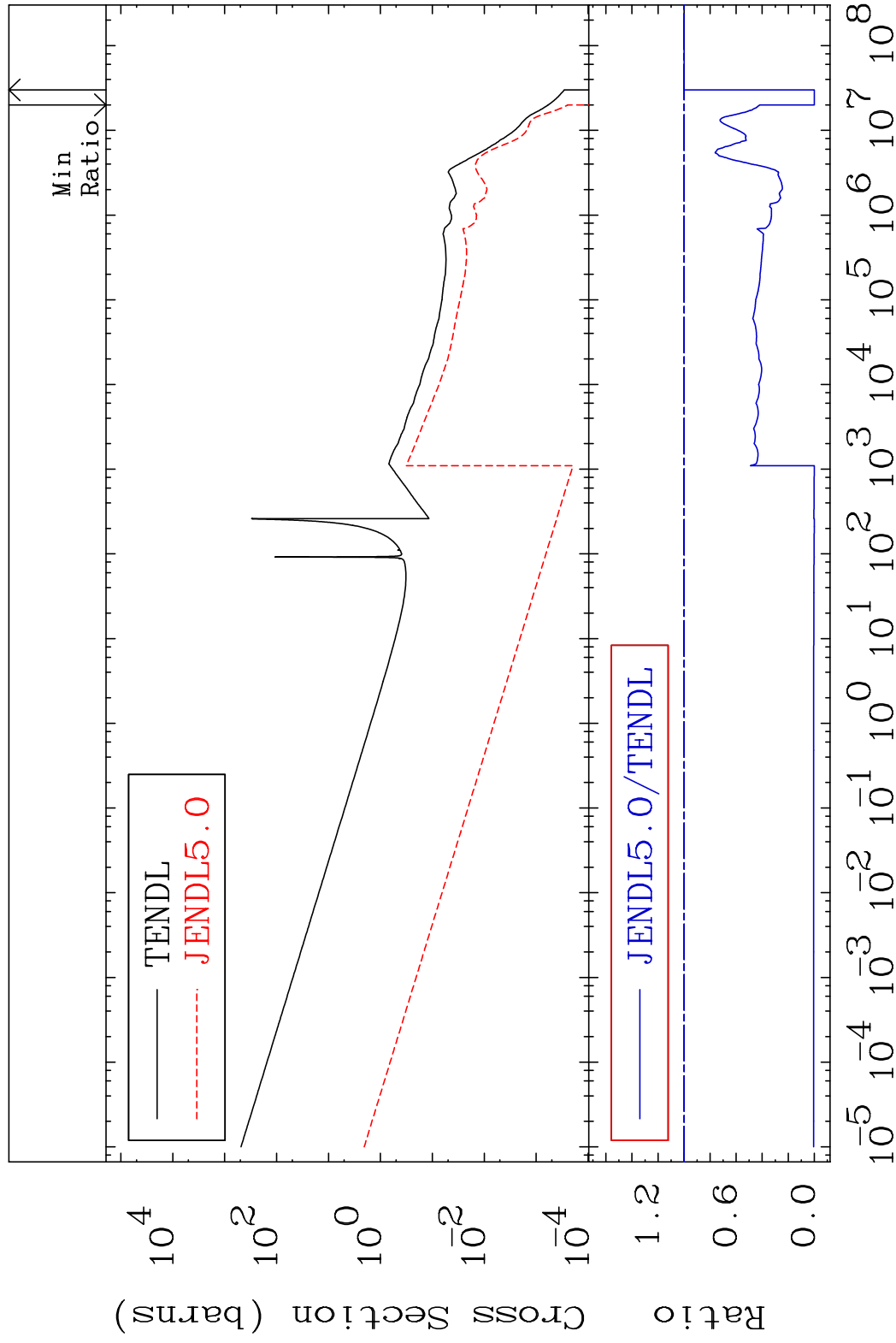


MAT 8431

(n,  $\gamma$ )

84-Po-208

Cross Section      -100.0 To 0.000 %



39

Incident Energy (eV)

84-Po-208



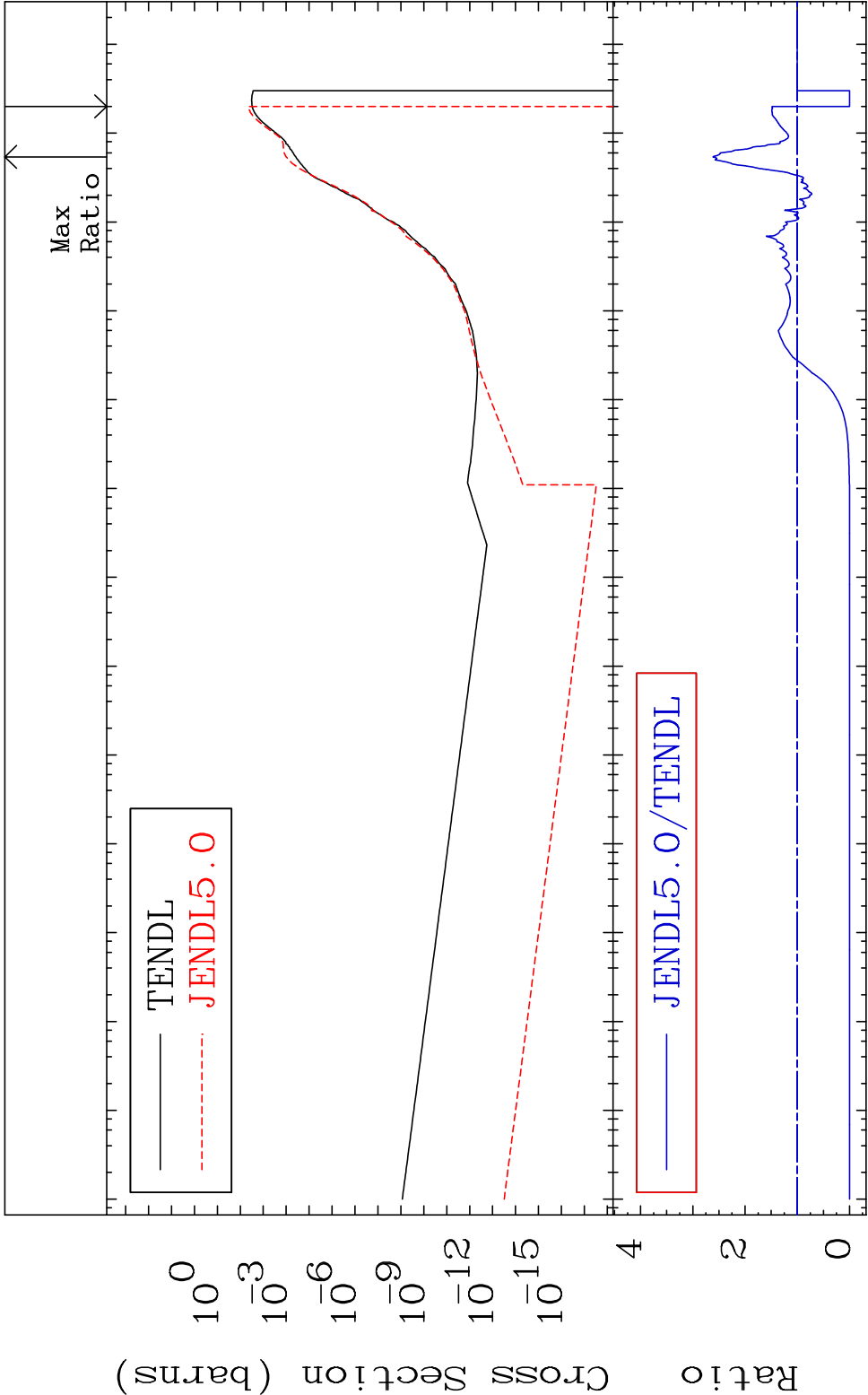
MAT 8431

(n,p)

84-Po-208

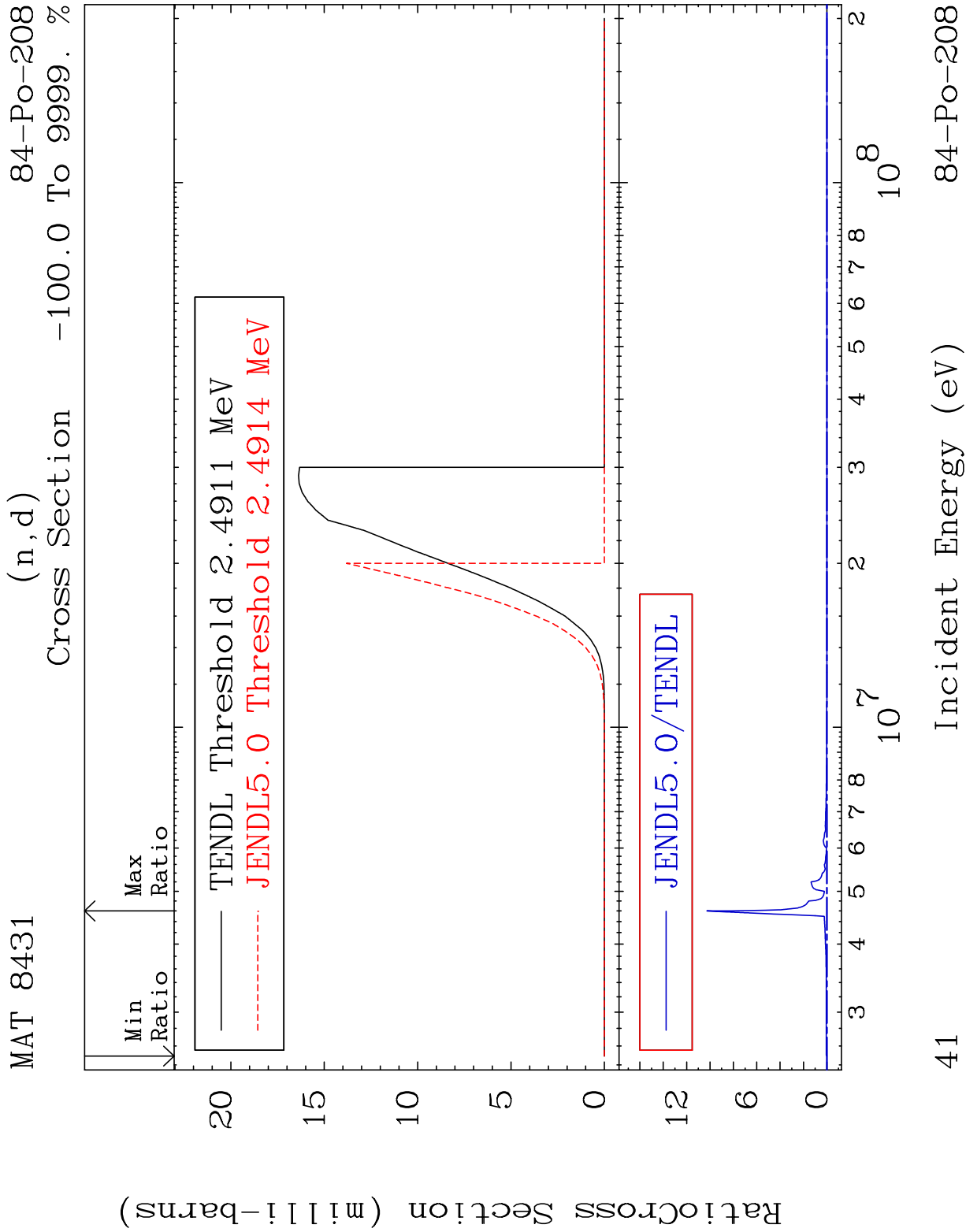
Cross Section

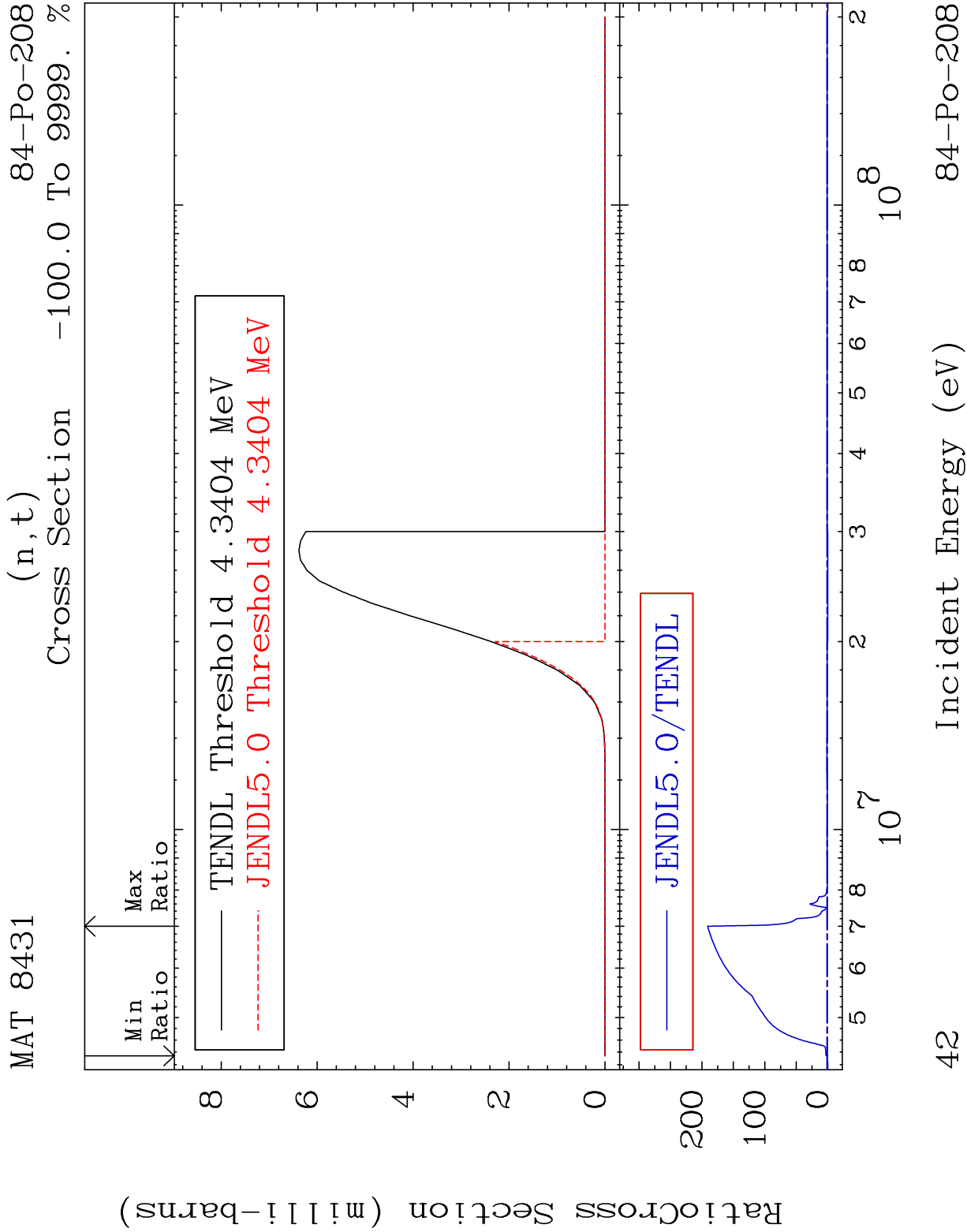
-100.0 To 161.5 %

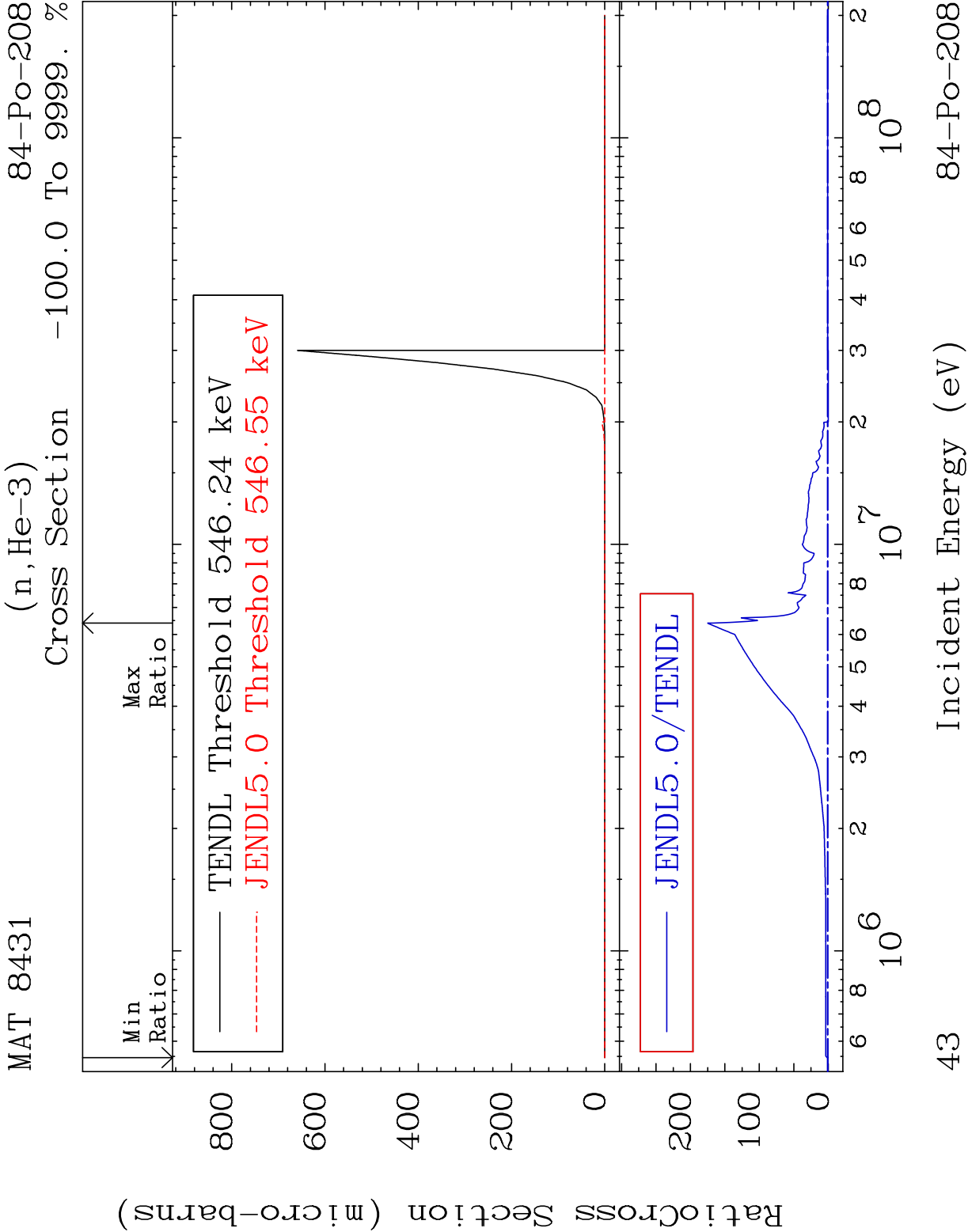


Incident Energy (eV)

84-Po-208





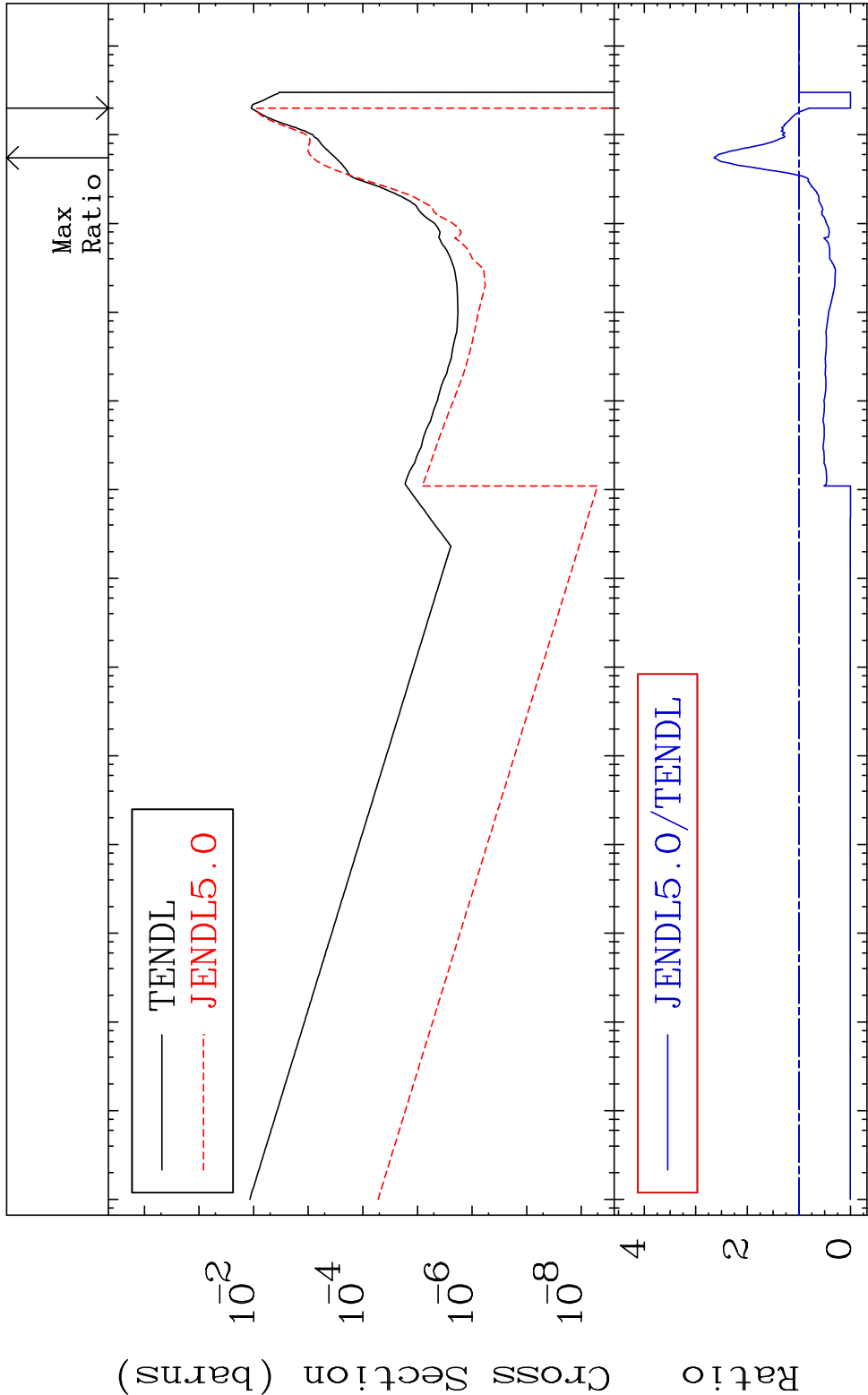


MAT 8431

(n,  $\alpha$ )

84-Po-208

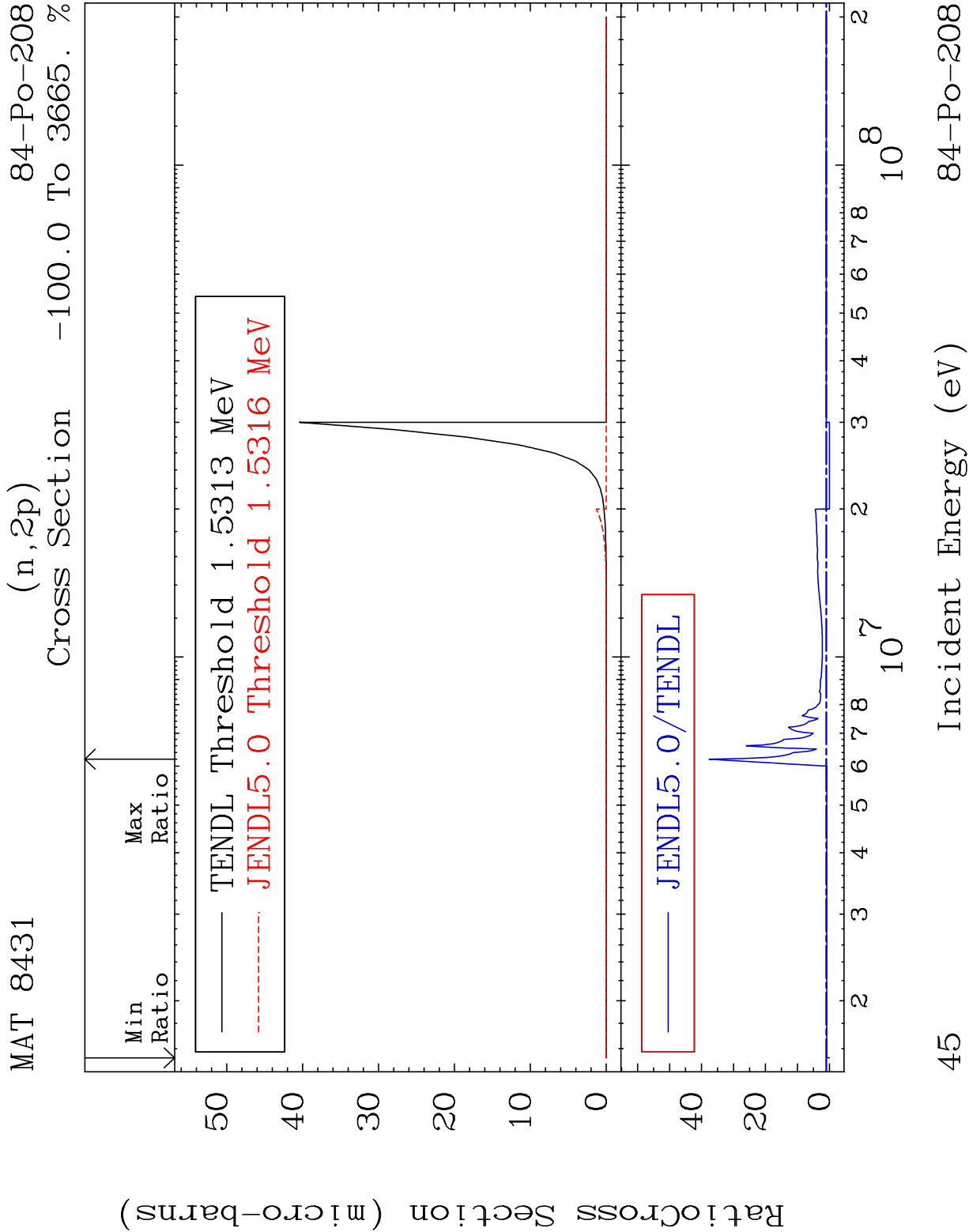
Cross Section      -100.0 To 164.6 %

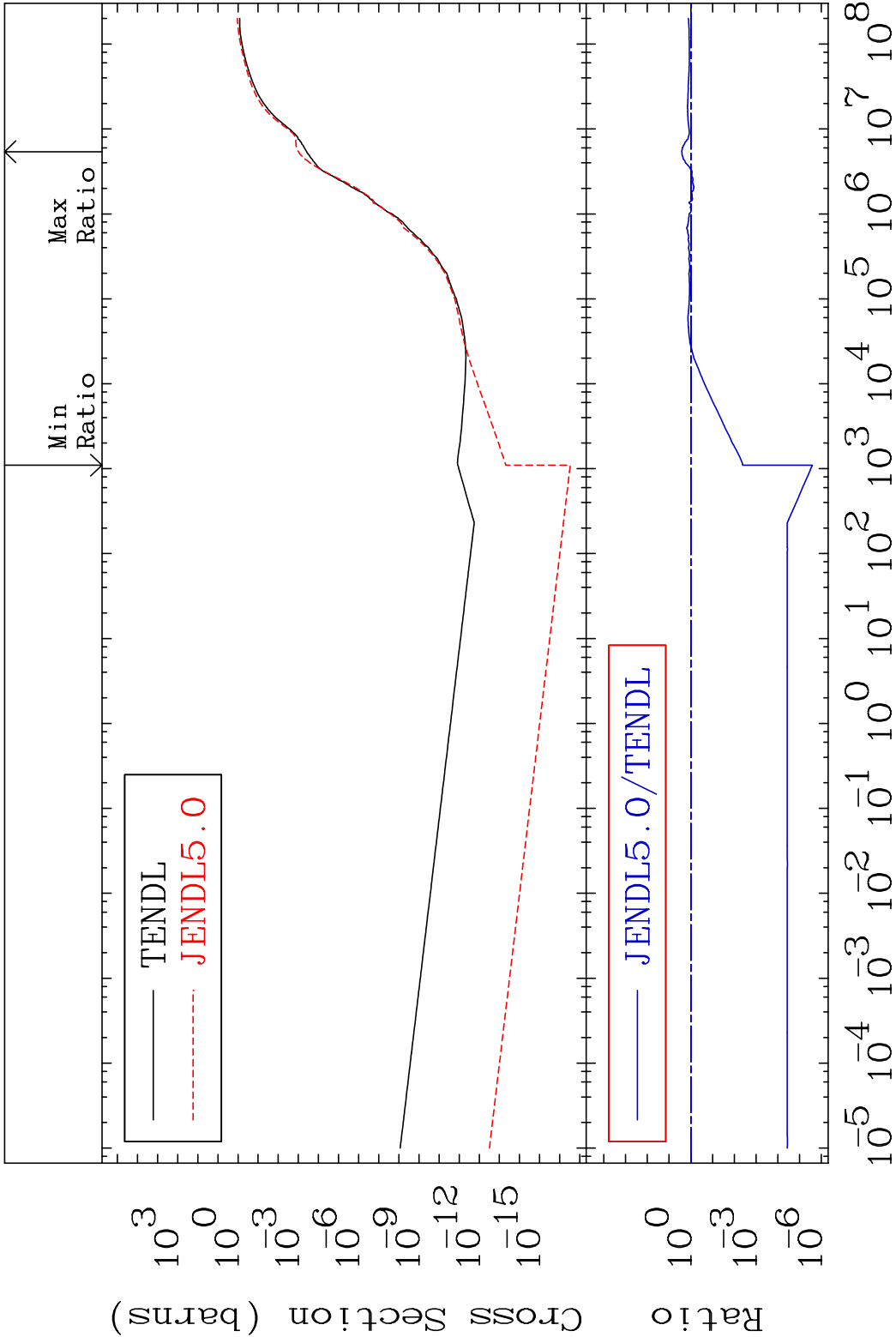


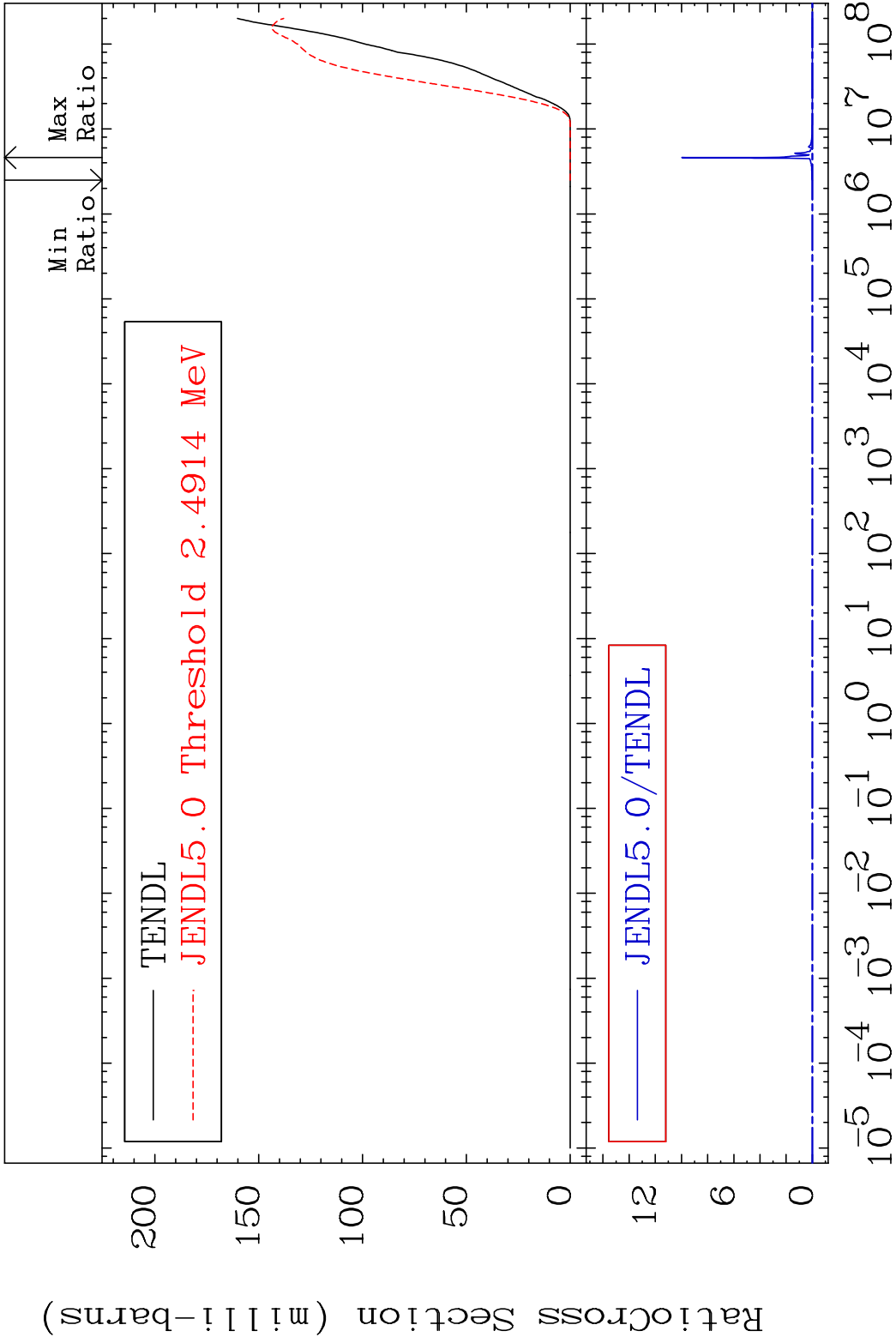
44

Incident Energy (eV)

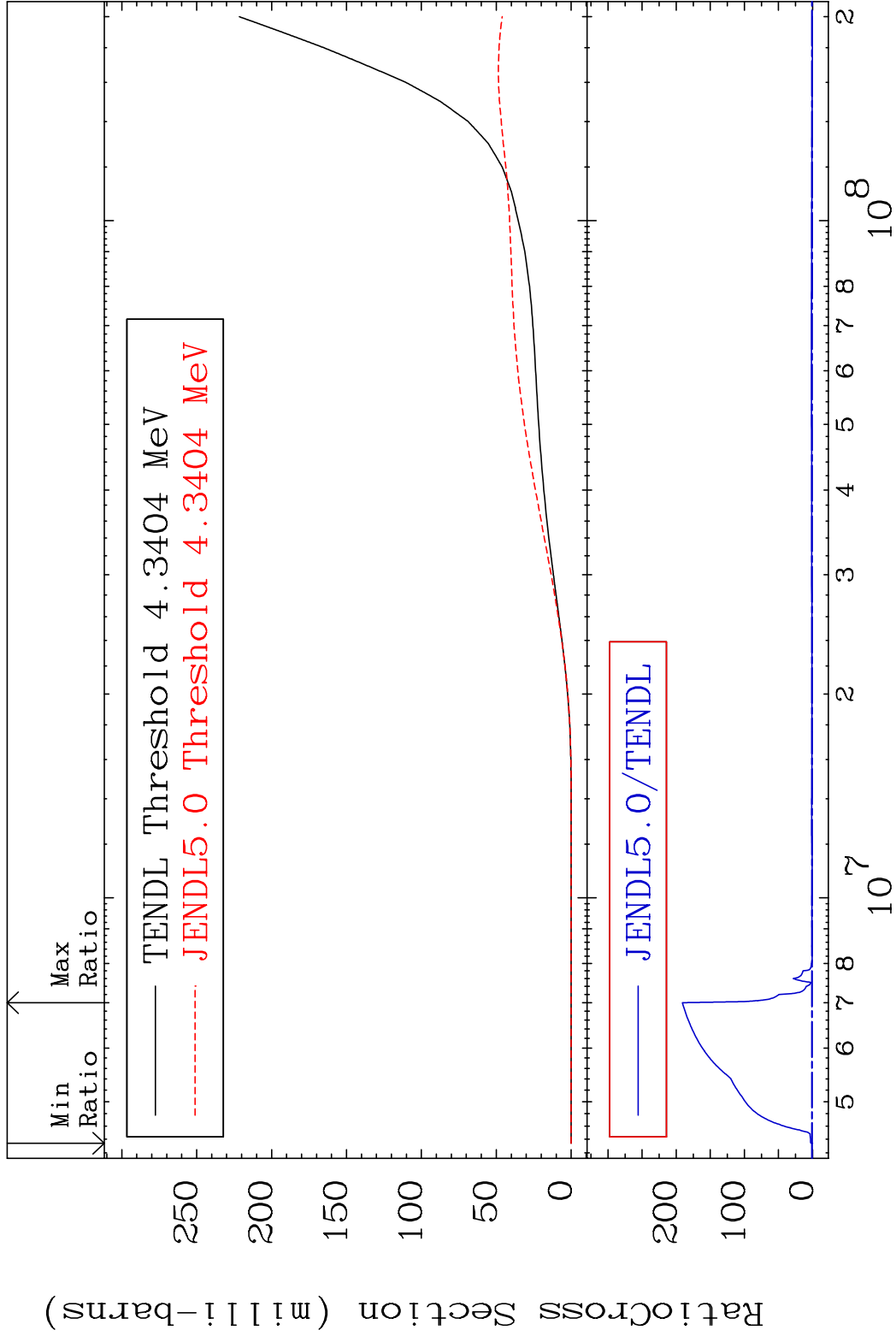
84-Po-208

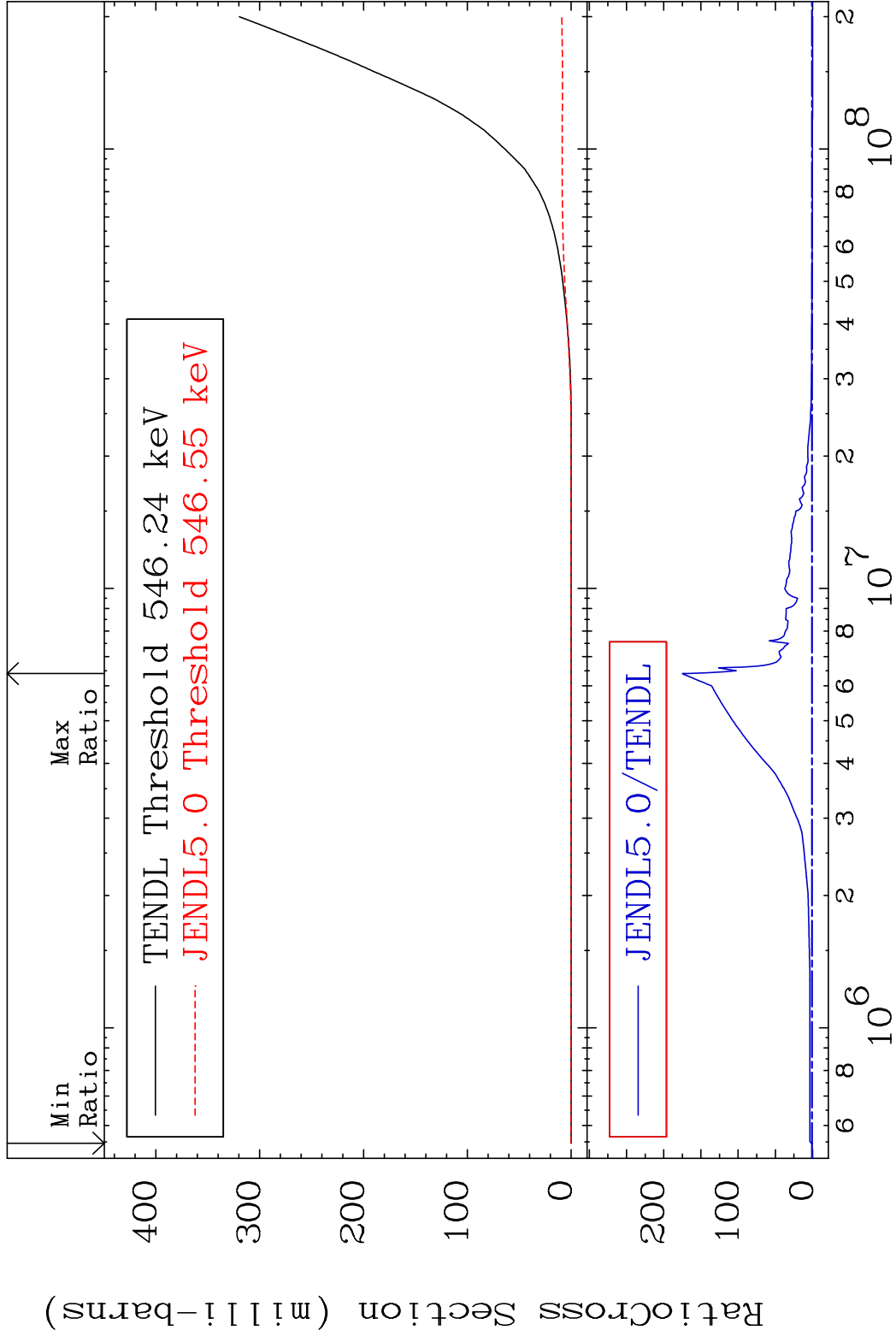


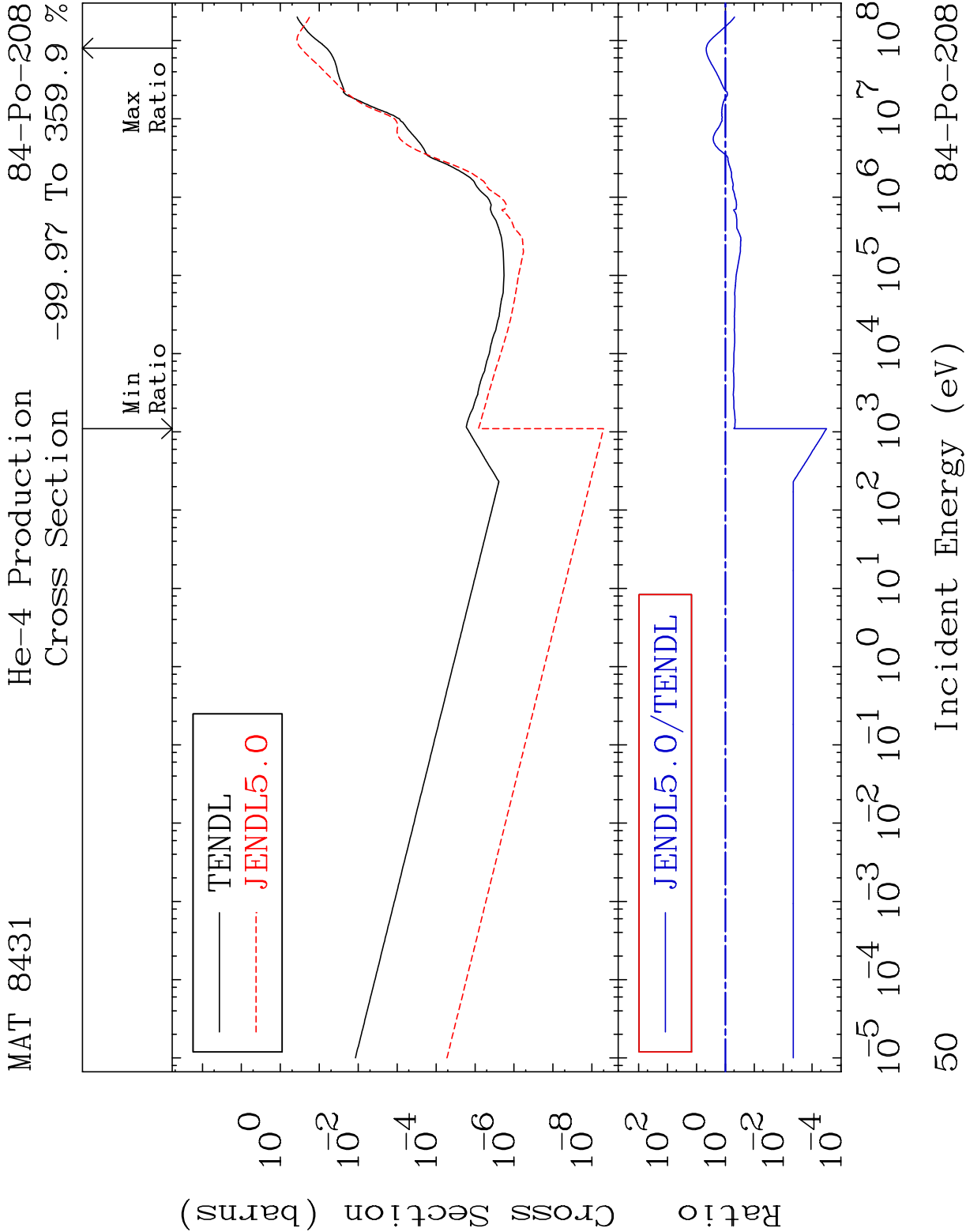




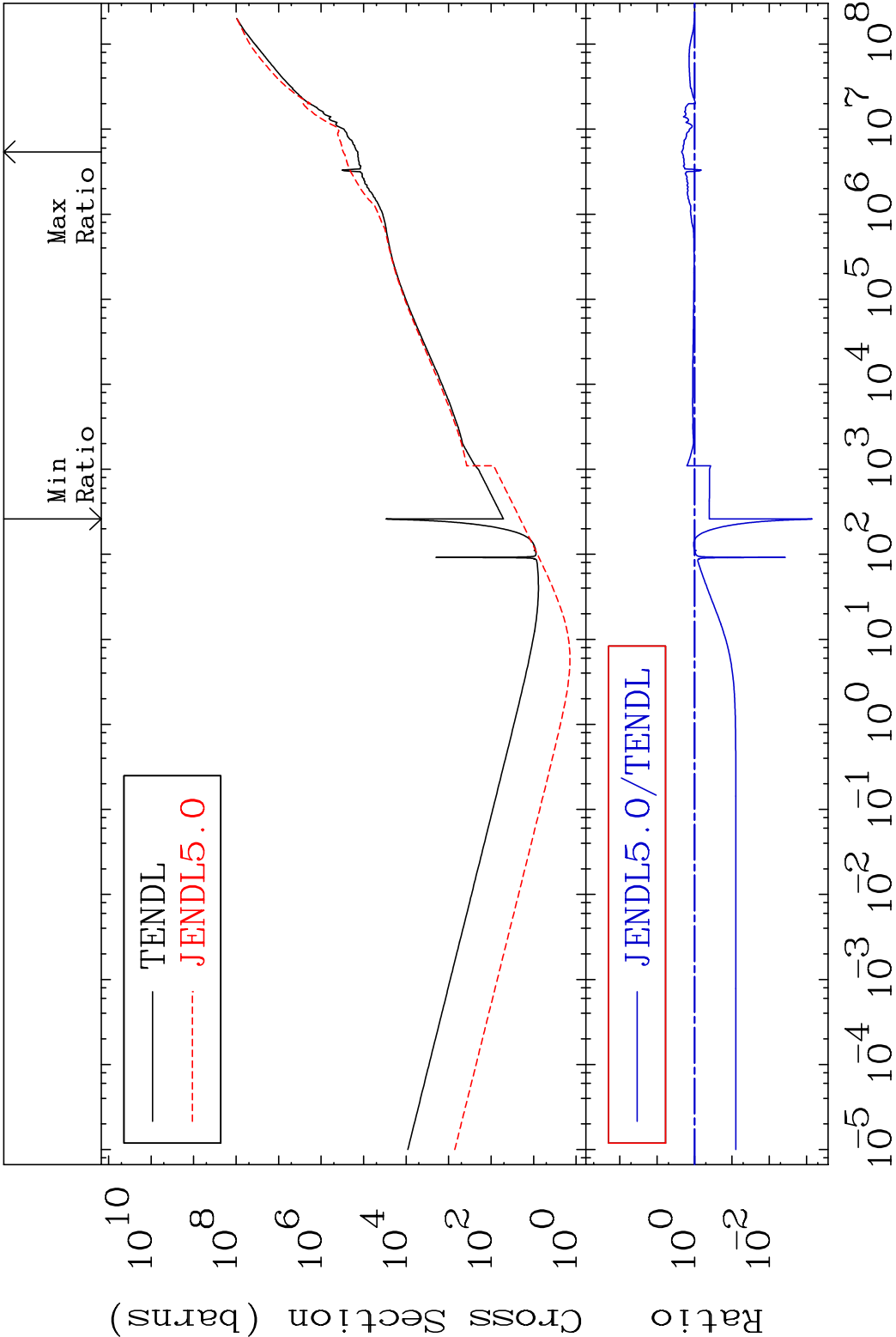




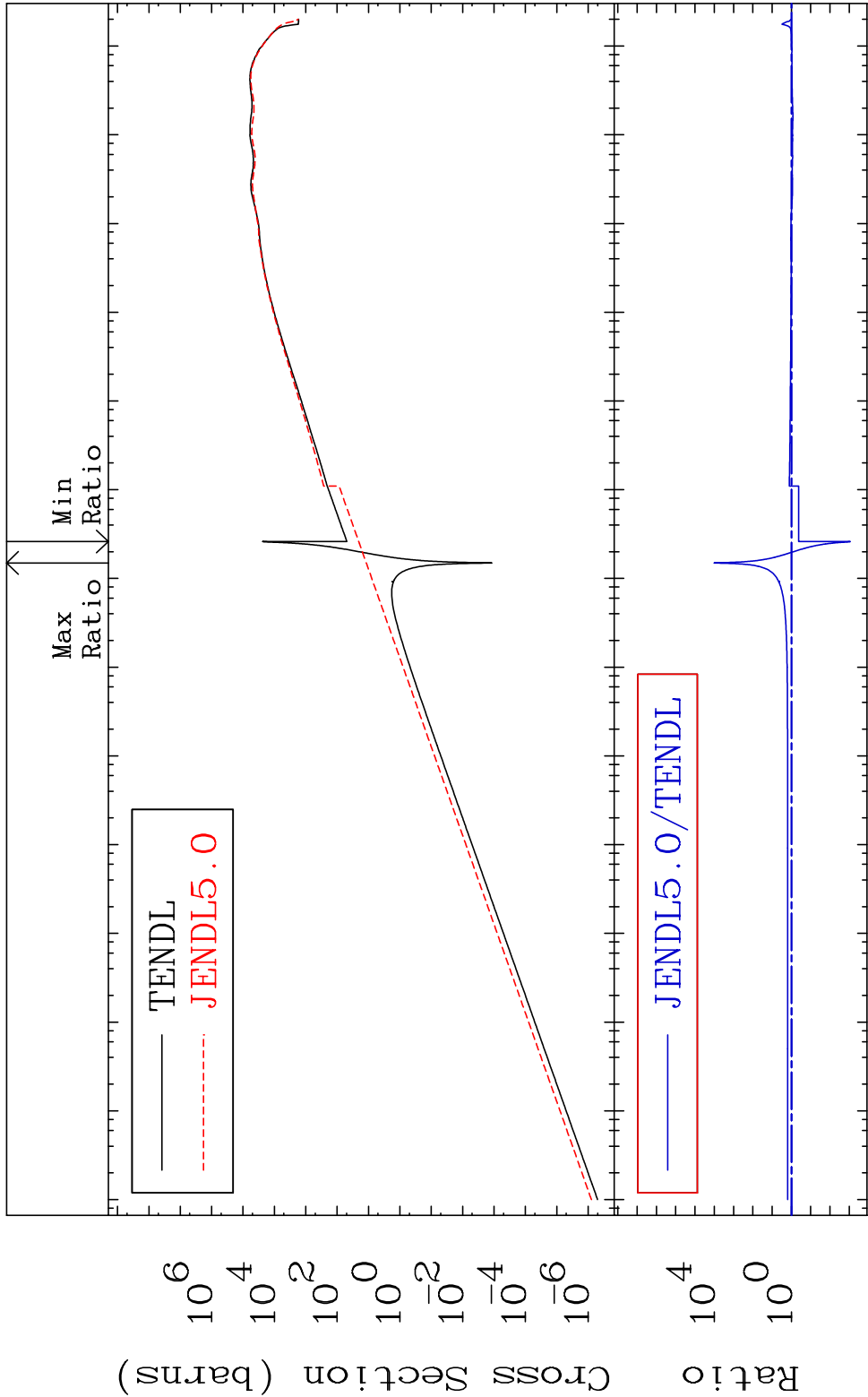




|          |                        |                   |
|----------|------------------------|-------------------|
| MAT 8431 | Kerma total (eV-barns) | 84-Po-208         |
|          | Cross Section          | -99.93 To 122.8 % |



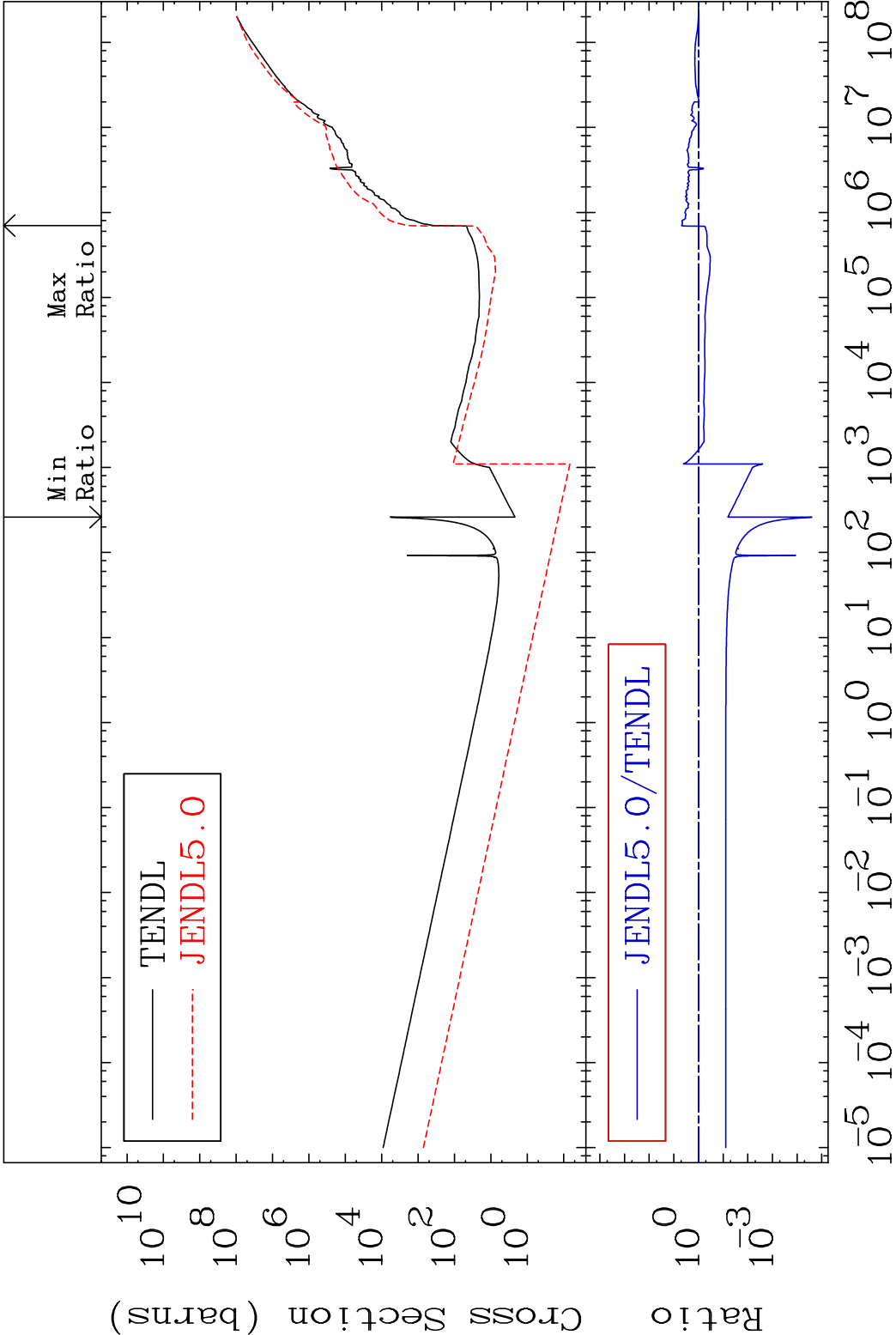
MAT 8431      Kerma elastic      84-Po-208  
Cross Section      -99.91 To 9999. %

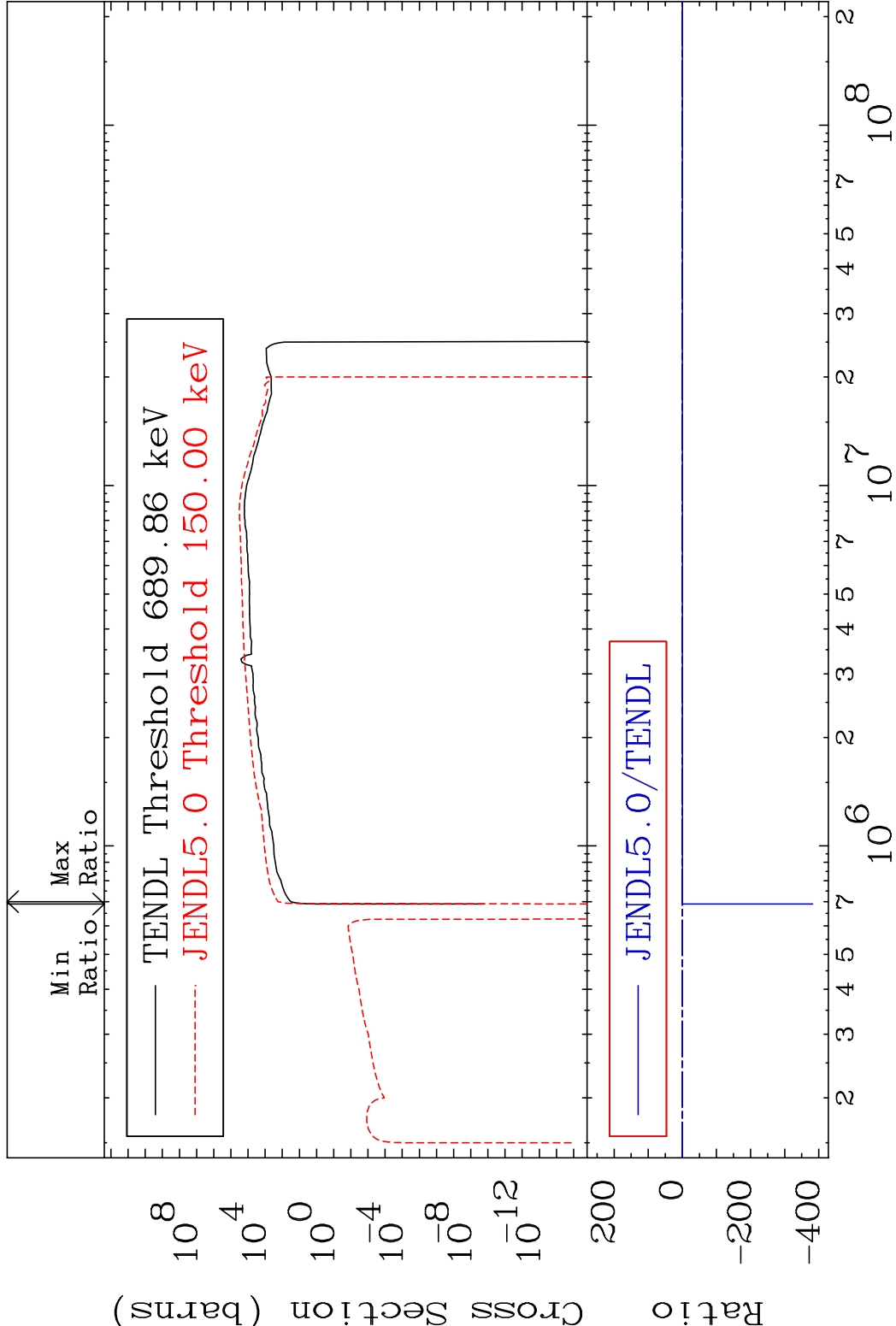


10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

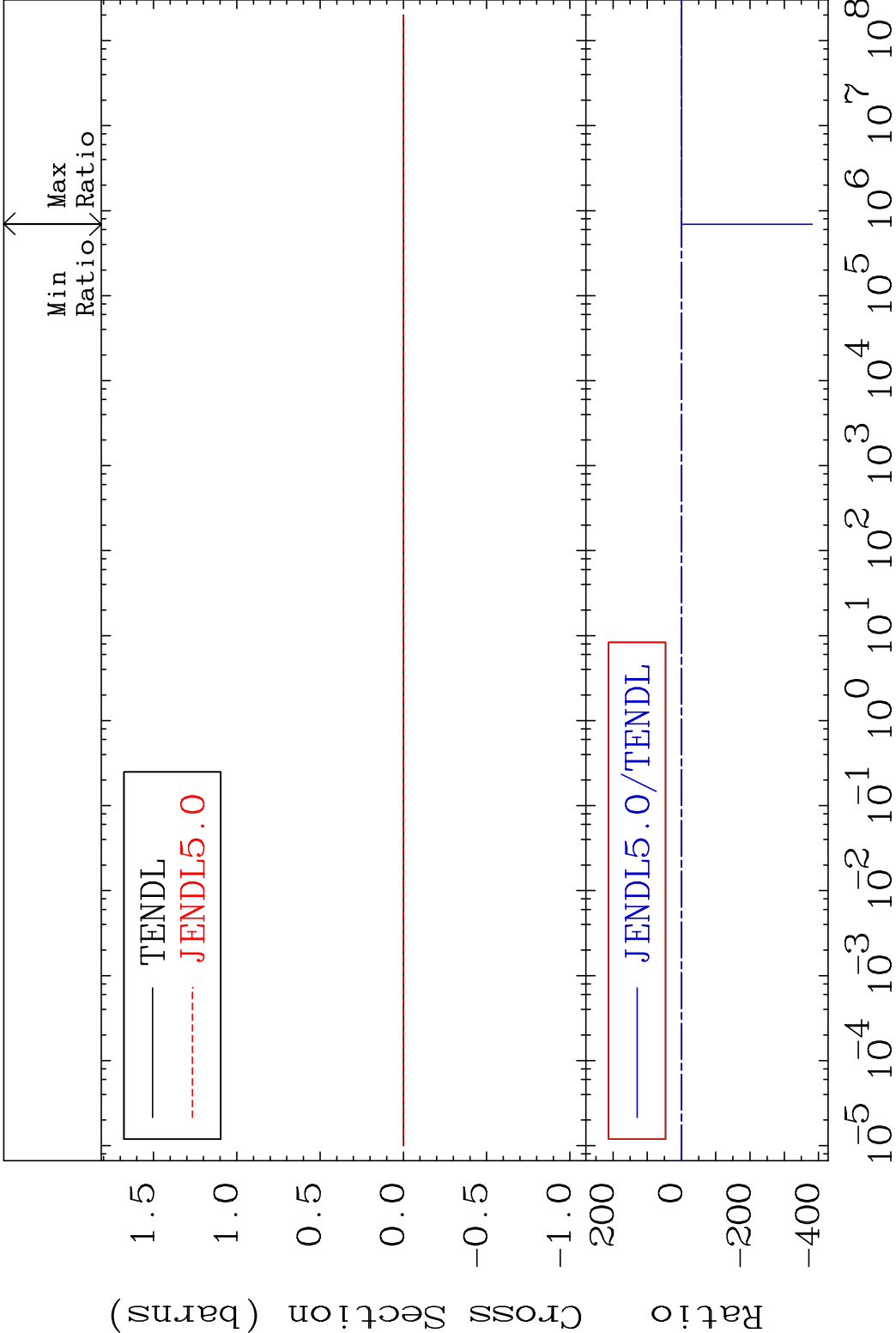
52      Incident Energy (eV)      84-Po-208

MAT 8431    Kerma non-elastic (all but mt2)    84-Po-208  
Cross Section    -100.0 To 385.3 %

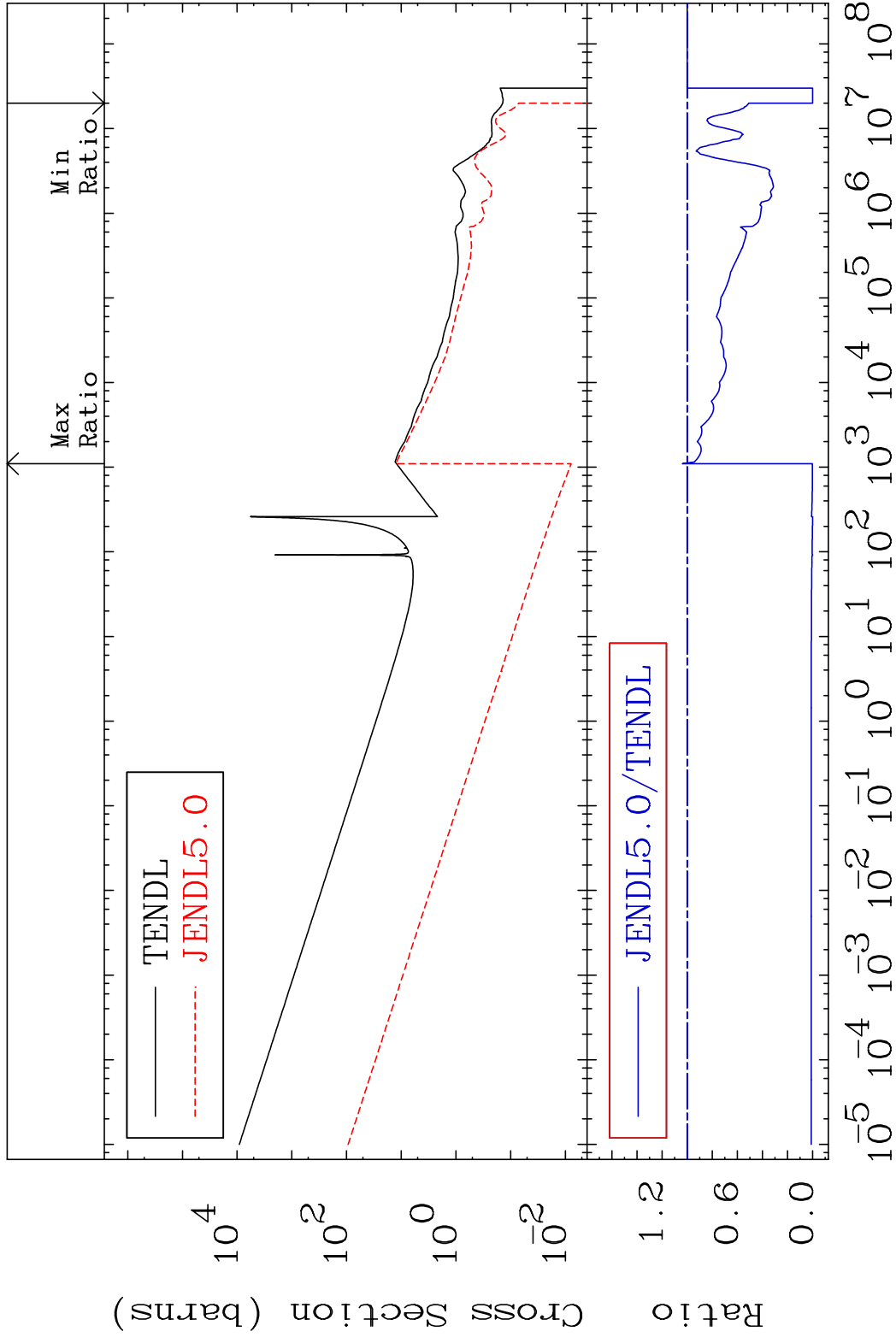




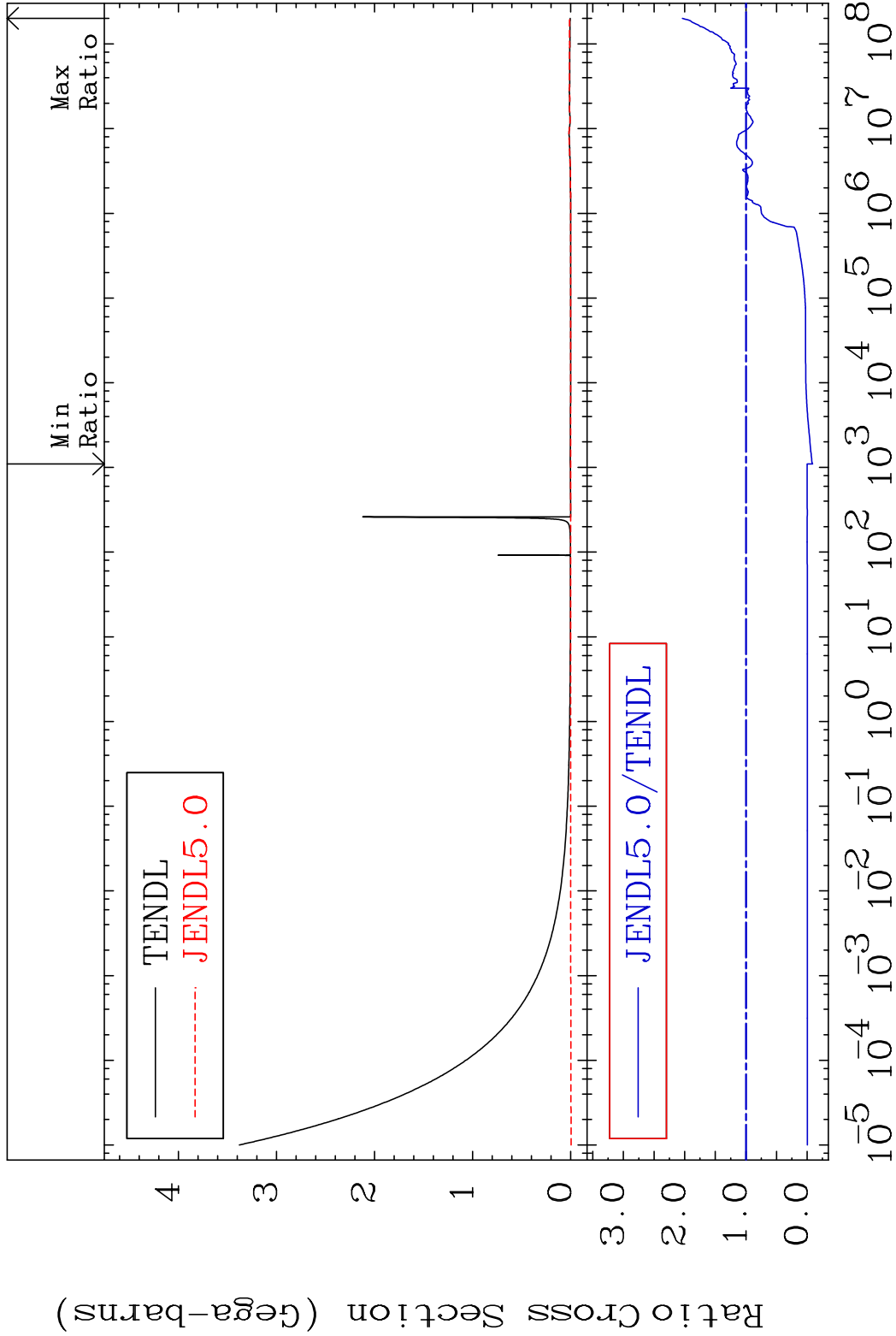
MAT 8431 Kerma fission (mt18 or mt19-20-21-38)84-Po-208  
Cross Section -9999. To 450.8 %



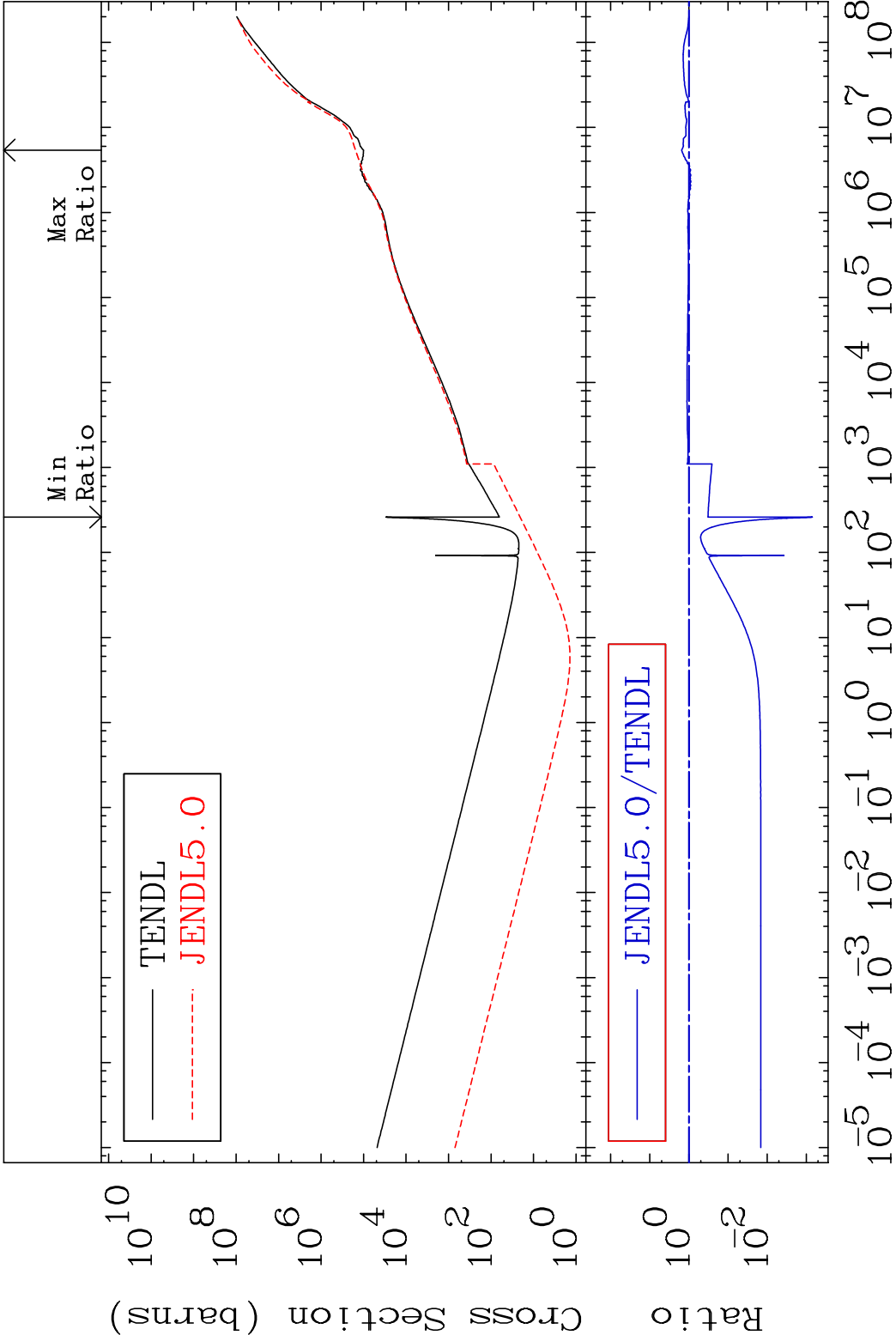




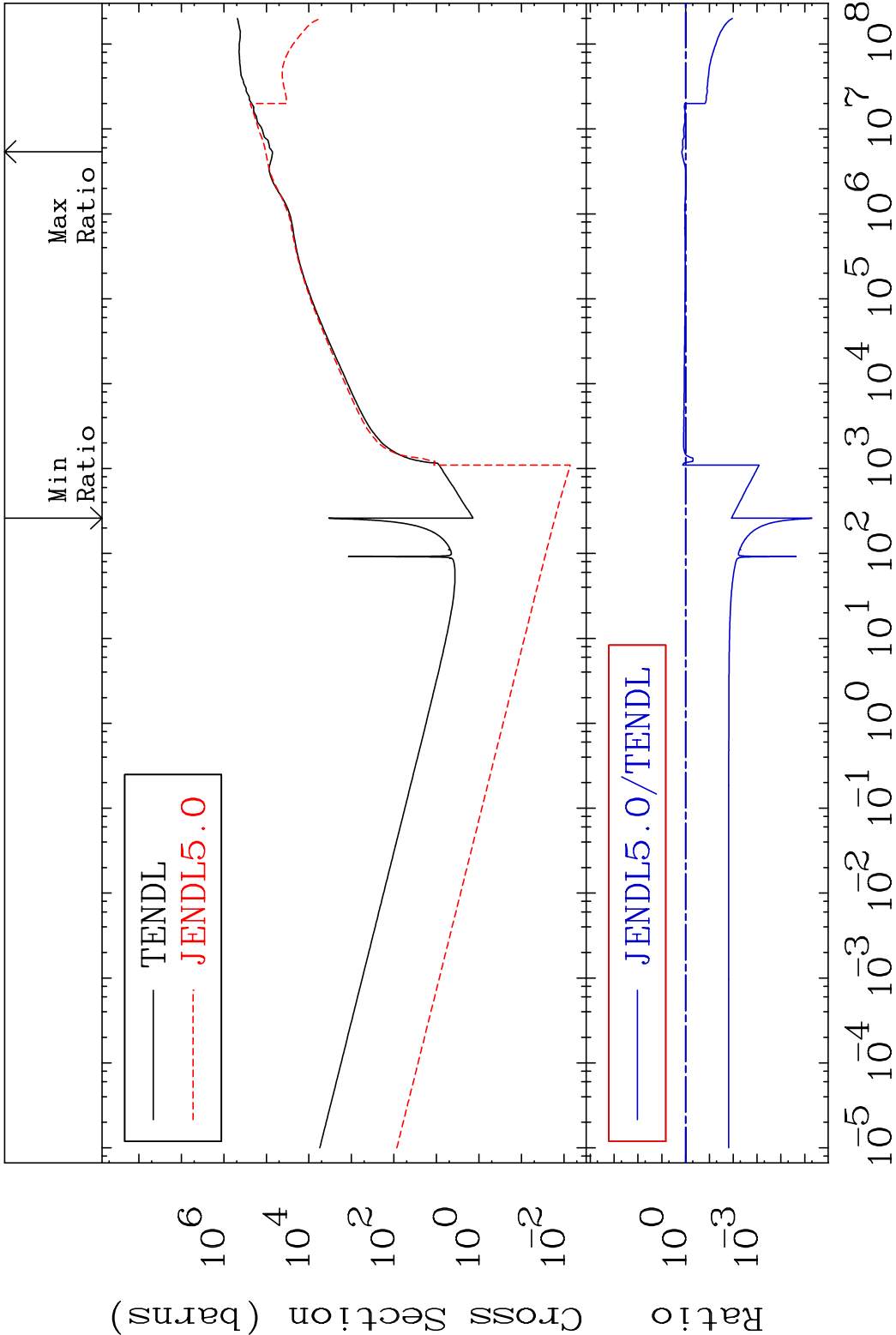
MAT 8431      Total photon (eV-barns)      84-Po-208  
Cross Section      -108.7 To 103.8 %



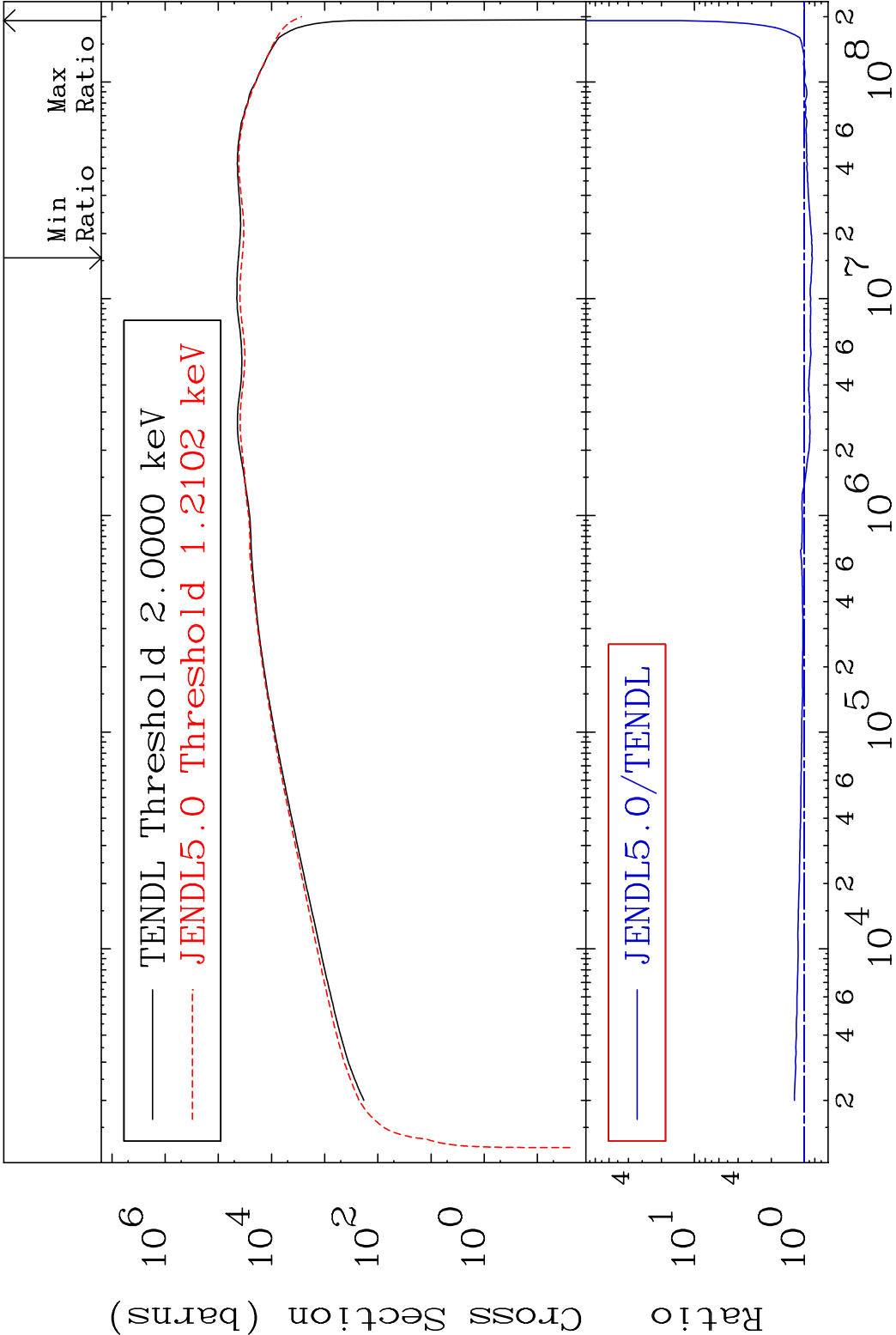
MAT 8431 Total kinematic kerma (high limit) 84-Po-208  
Cross Section -99.93 To 54.71 %

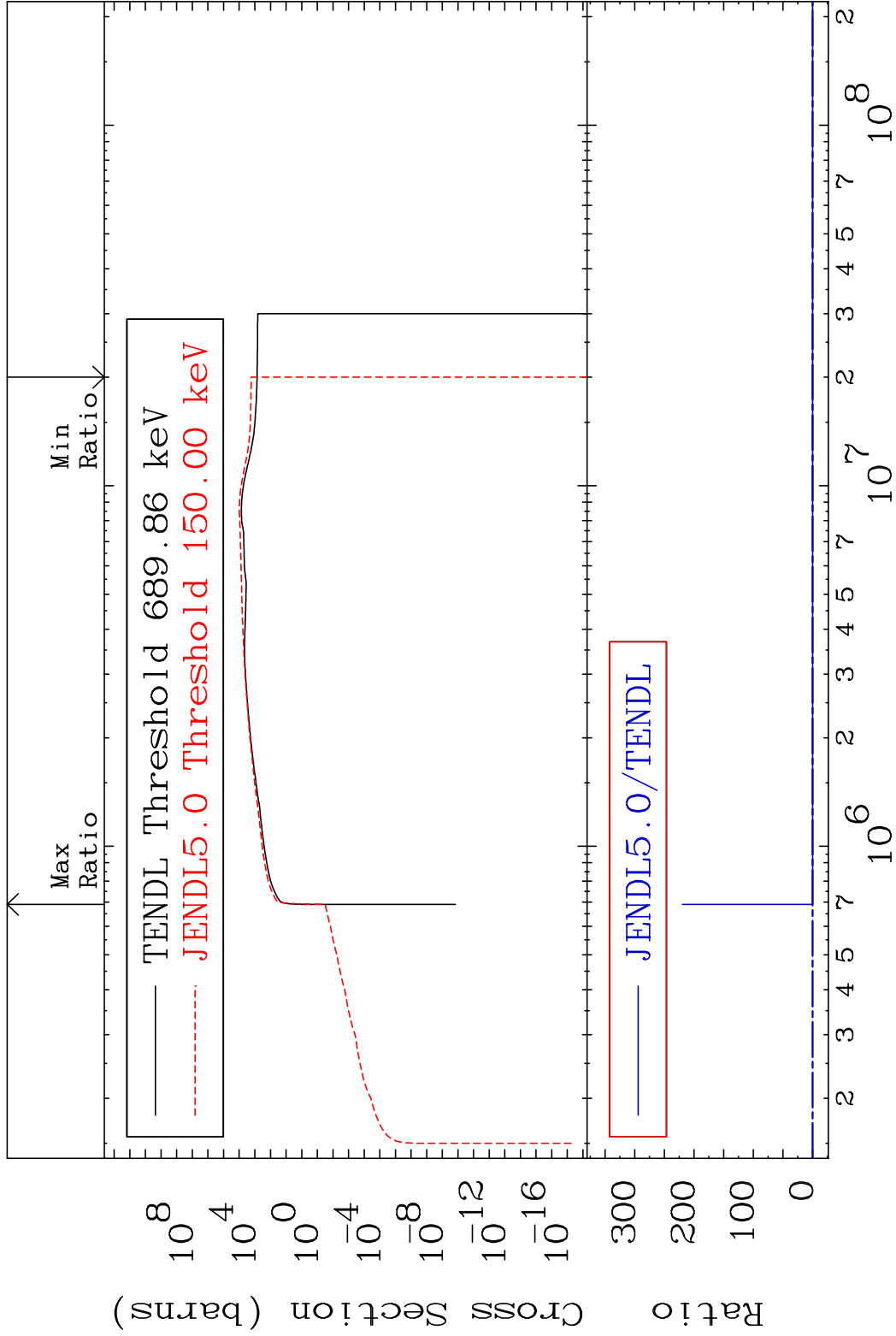


MAT 8431      Dpa total (eV-barns)      84-Po-208  
Cross Section      -100.0 To 45.15 %

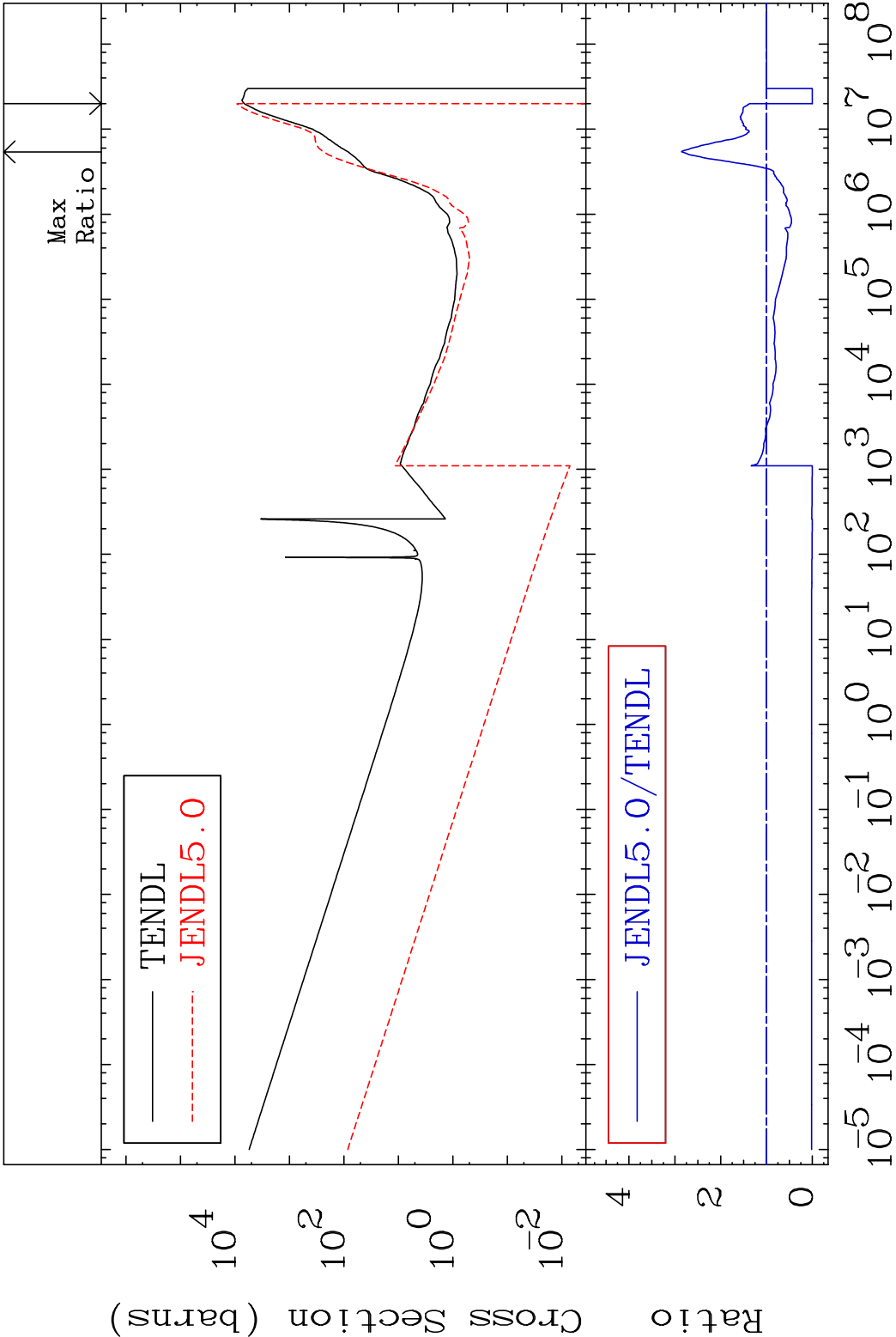


59      Incident Energy (eV)      84-Po-208

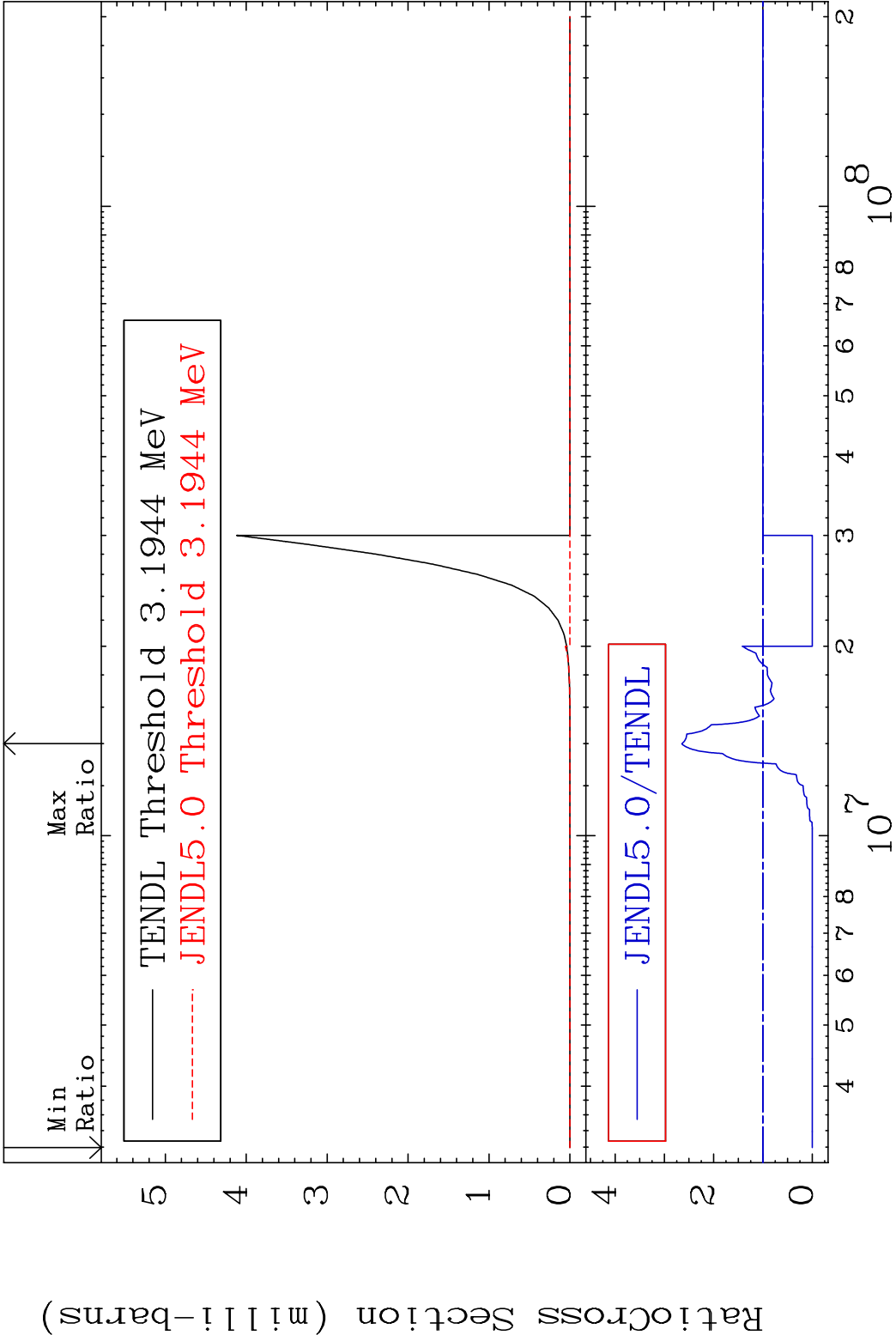




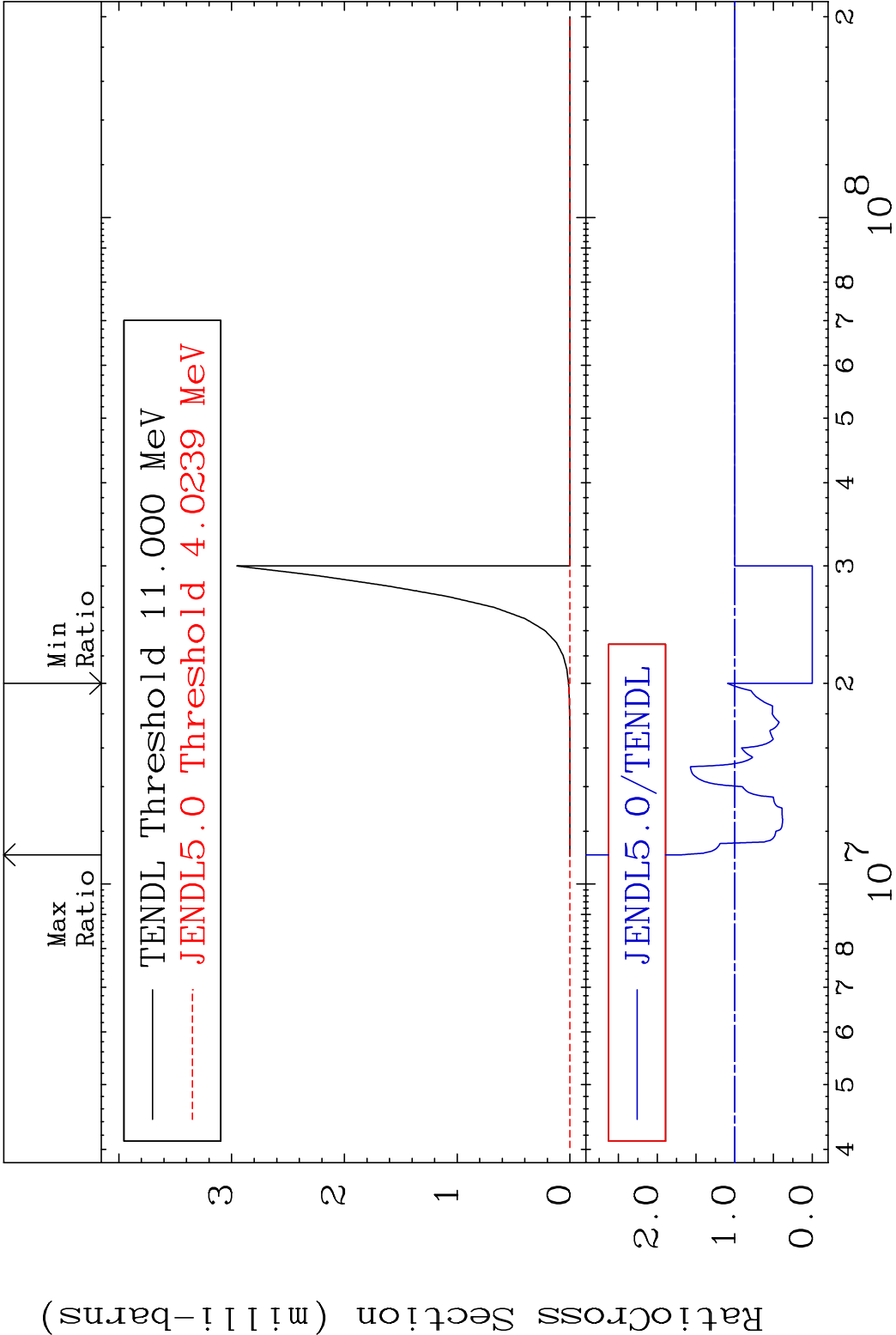
MAT 8431    Dpa disappearance (mt102 -120)    84-Po-208  
Cross Section    -100.0 To 185.4 %

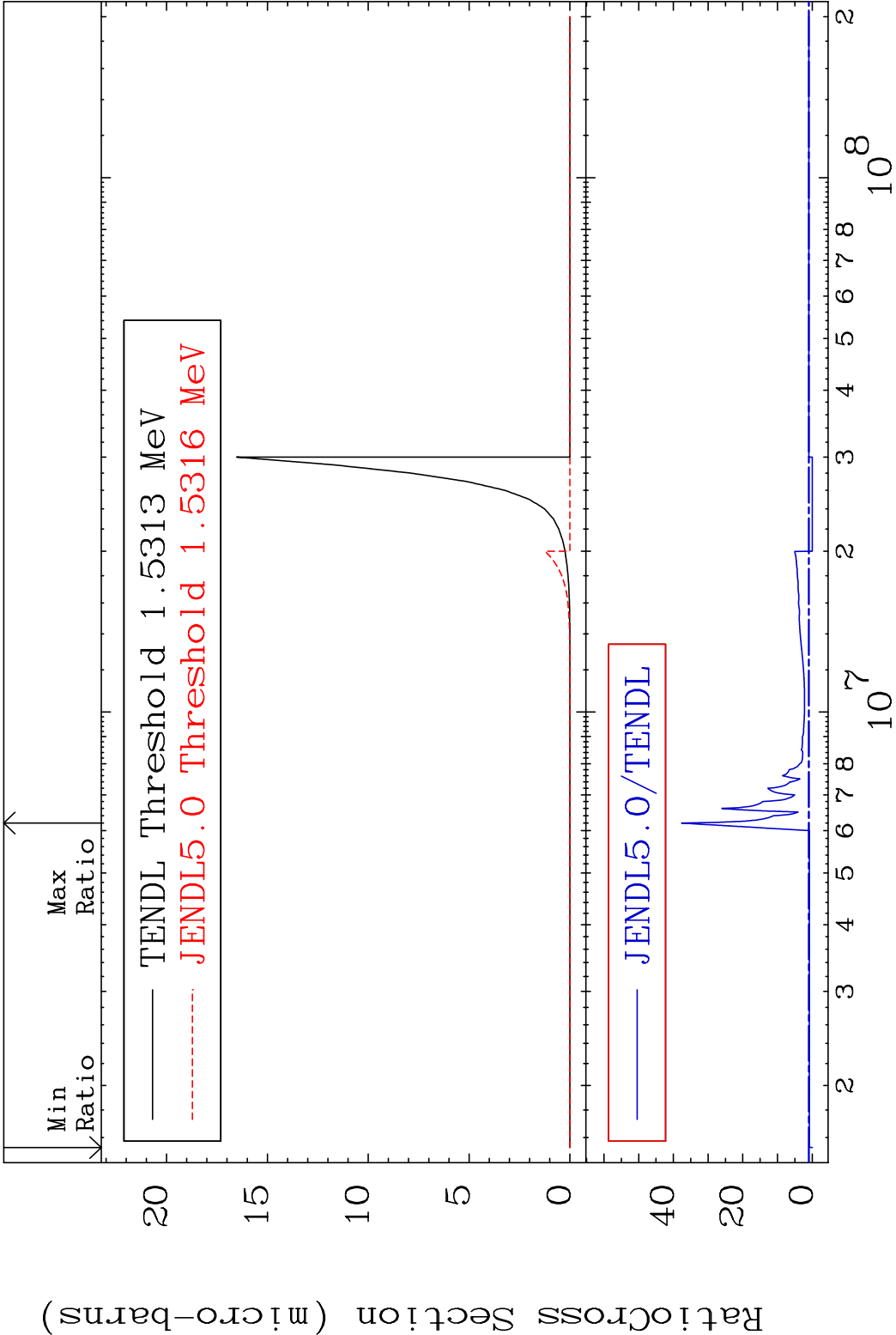


62    Incident Energy (eV)    84-Po-208

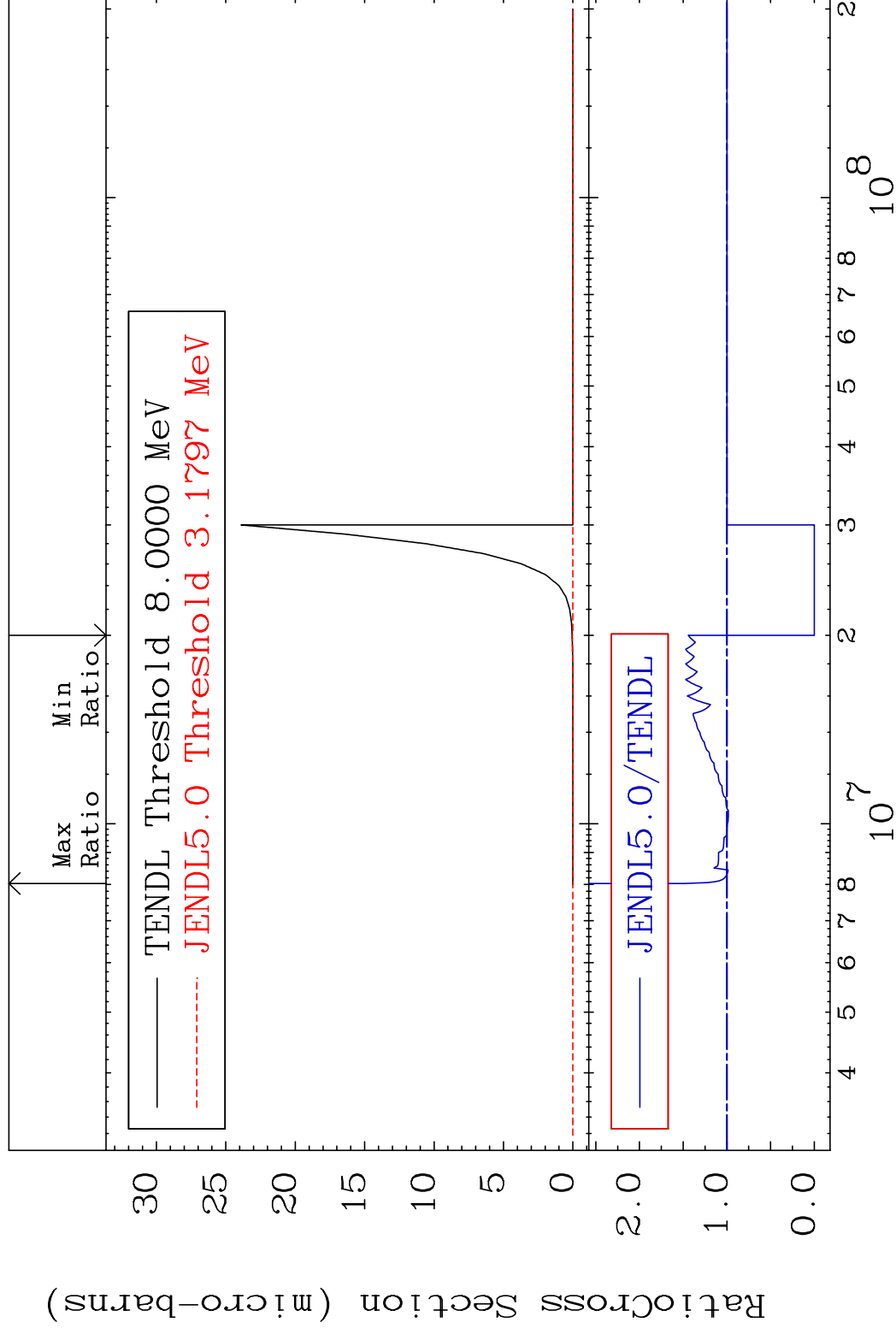


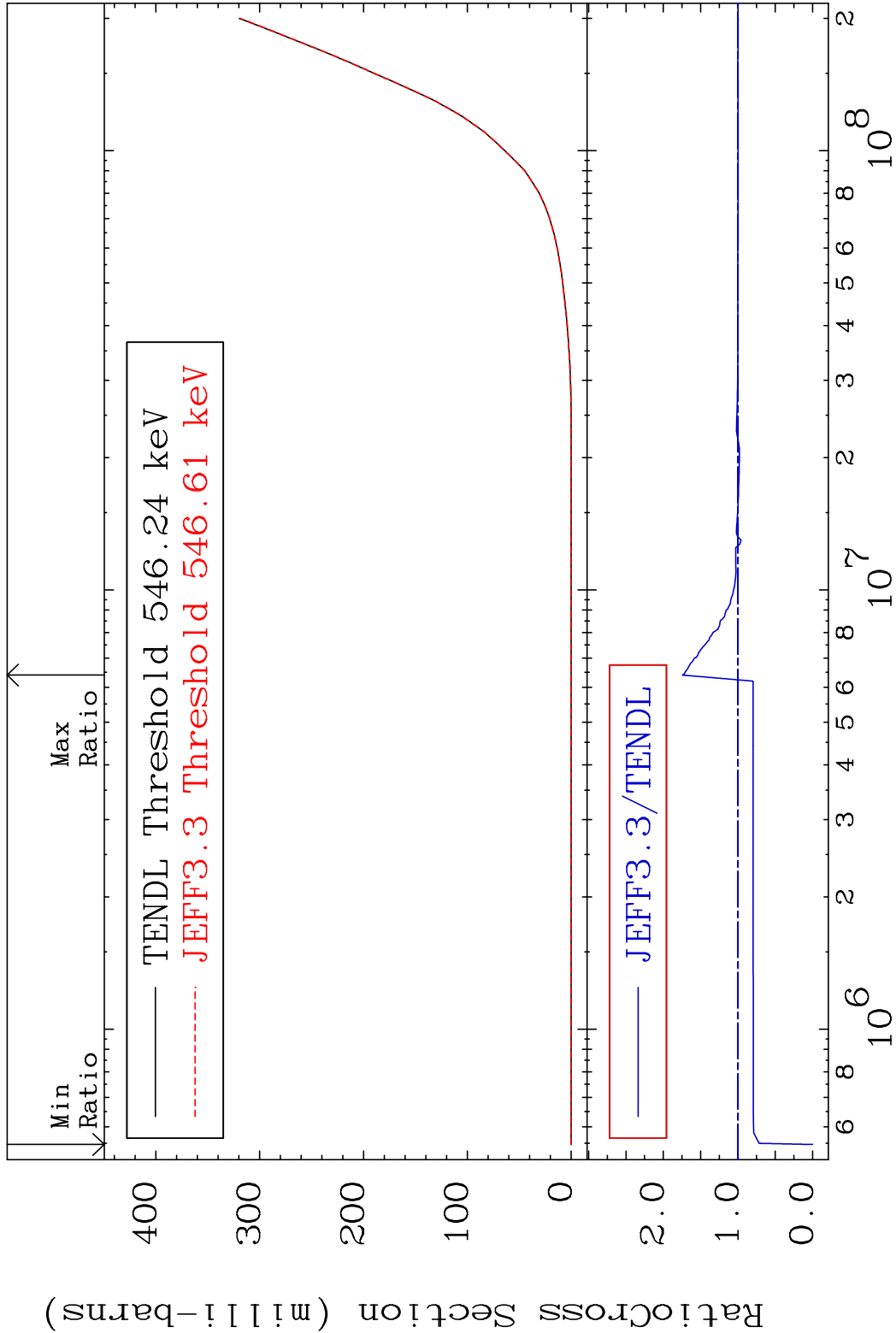


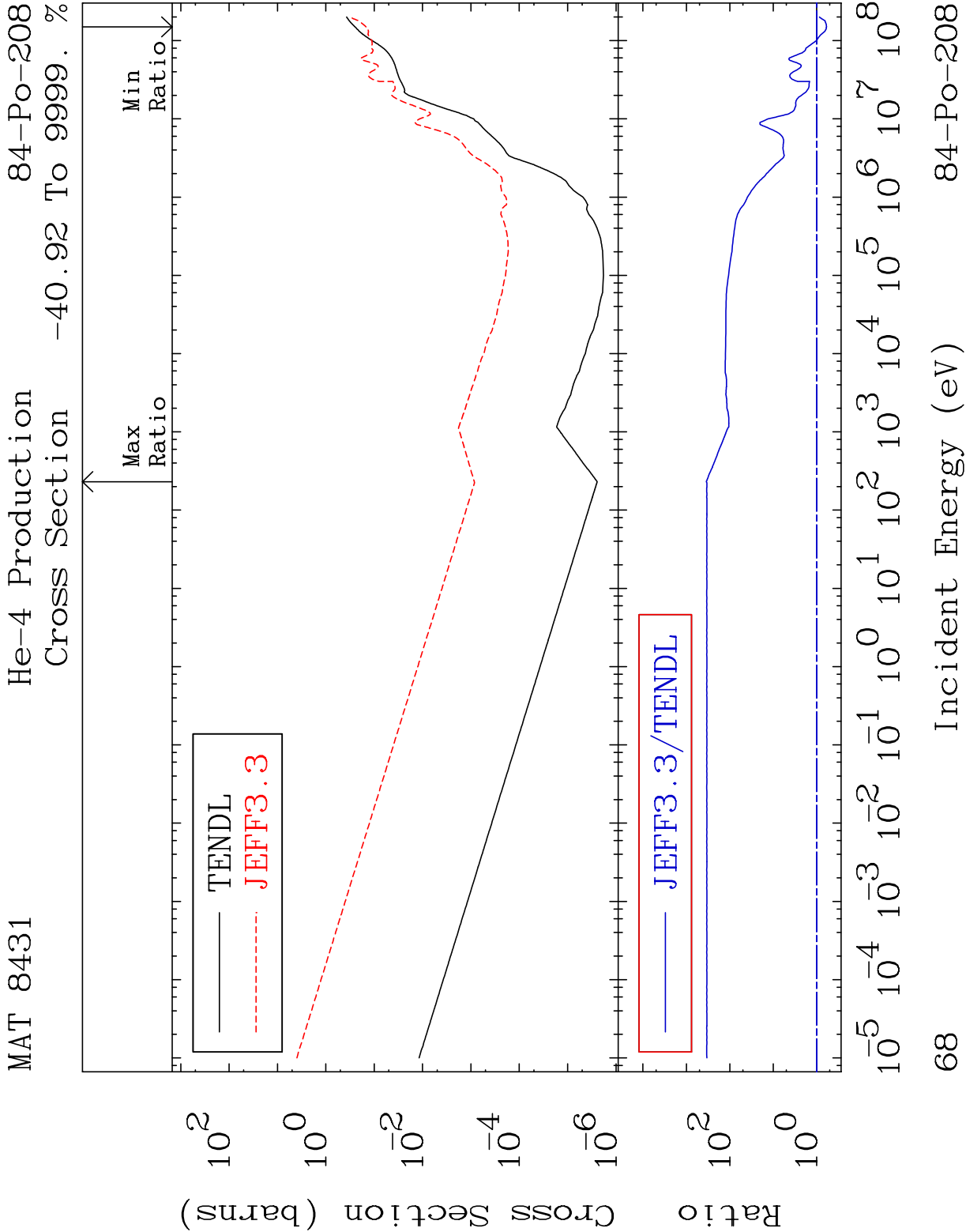


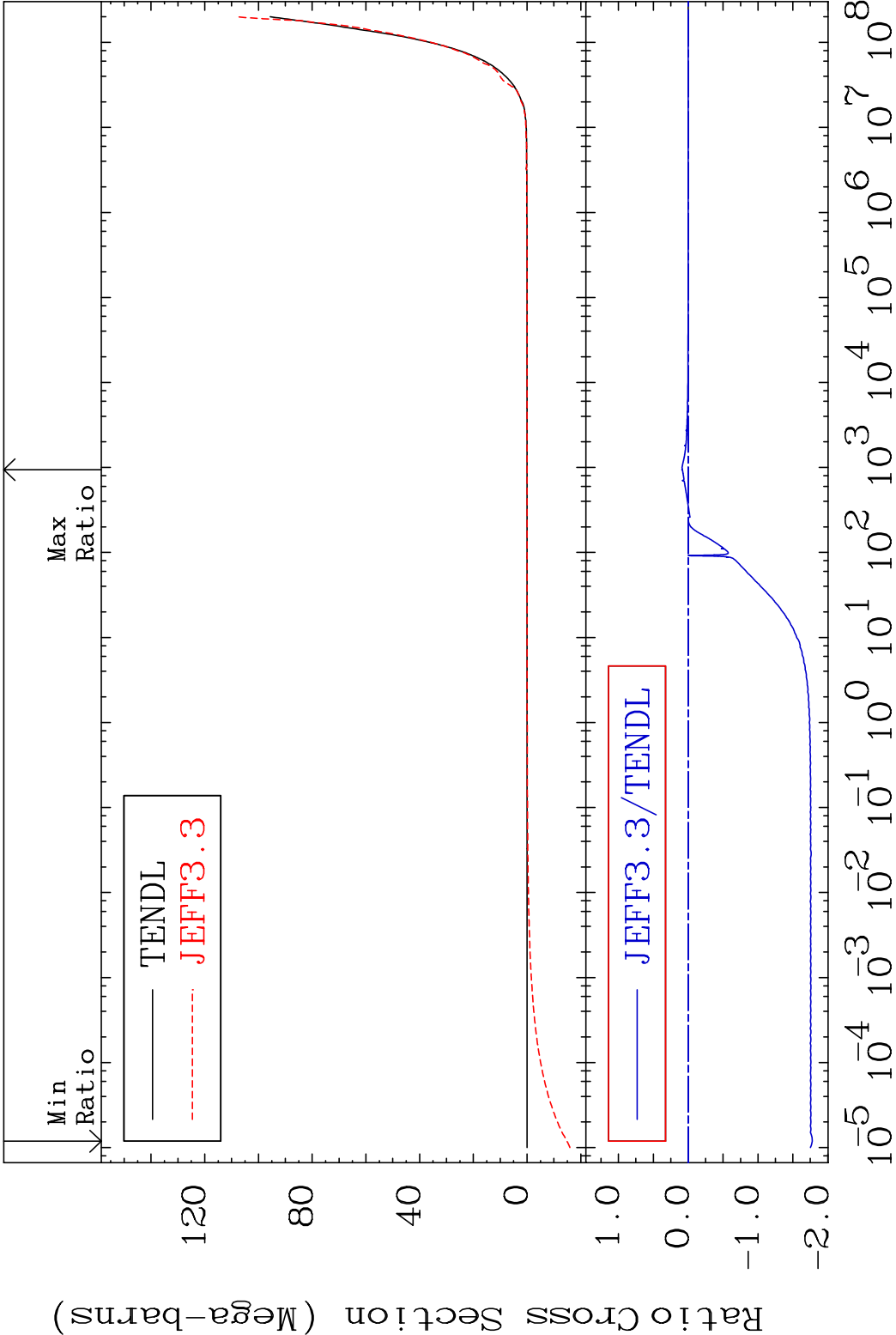


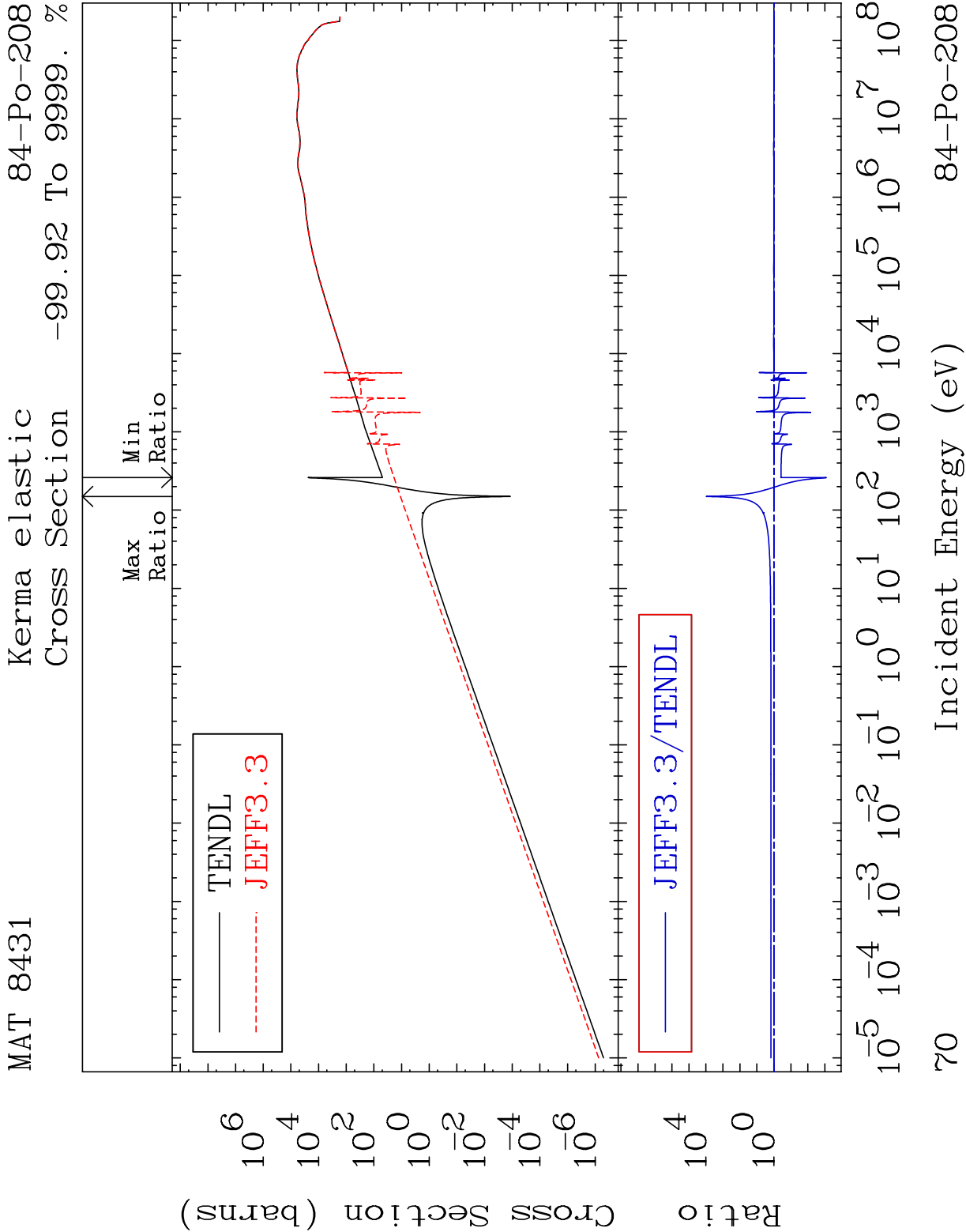
| Radionuclide      | Production Cross-Section | Decay Mode     | Half-life     | Activity |
|-------------------|--------------------------|----------------|---------------|----------|
| <sup>137</sup> Cs | 1.00                     | β <sup>-</sup> | 30.17 y       | 49.00 %  |
| <sup>134</sup> Cs | 0.66                     | β <sup>-</sup> | 2.06 y        | 1.00 %   |
| <sup>132</sup> Cs | 0.66                     | β <sup>-</sup> | 6.49 d        | 0.00 %   |
| <sup>131</sup> Cs | 0.66                     | β <sup>-</sup> | 9.7 d         | 0.00 %   |
| <sup>130</sup> Cs | 0.66                     | β <sup>-</sup> | 2.6 y         | 0.00 %   |
| <sup>129</sup> Cs | 0.66                     | β <sup>-</sup> | 32.8 y        | 0.00 %   |
| <sup>128</sup> Cs | 0.66                     | β <sup>-</sup> | 4.82 y        | 0.00 %   |
| <sup>127</sup> Cs | 0.66                     | β <sup>-</sup> | 1.05 y        | 0.00 %   |
| <sup>126</sup> Cs | 0.66                     | β <sup>-</sup> | 13.1 d        | 0.00 %   |
| <sup>125</sup> Cs | 0.66                     | β <sup>-</sup> | 30.8 d        | 0.00 %   |
| <sup>124</sup> Cs | 0.66                     | β <sup>-</sup> | 3.08 y        | 0.00 %   |
| <sup>123</sup> Cs | 0.66                     | β <sup>-</sup> | 4.55 d        | 0.00 %   |
| <sup>122</sup> Cs | 0.66                     | β <sup>-</sup> | 6.48 d        | 0.00 %   |
| <sup>121</sup> Cs | 0.66                     | β <sup>-</sup> | 9.29 d        | 0.00 %   |
| <sup>120</sup> Cs | 0.66                     | β <sup>-</sup> | 13.0 d        | 0.00 %   |
| <sup>119</sup> Cs | 0.66                     | β <sup>-</sup> | 16.2 d        | 0.00 %   |
| <sup>118</sup> Cs | 0.66                     | β <sup>-</sup> | 22.3 d        | 0.00 %   |
| <sup>117</sup> Cs | 0.66                     | β <sup>-</sup> | 32.8 d        | 0.00 %   |
| <sup>116</sup> Cs | 0.66                     | β <sup>-</sup> | 47.9 d        | 0.00 %   |
| <sup>115</sup> Cs | 0.66                     | β <sup>-</sup> | 69.4 d        | 0.00 %   |
| <sup>114</sup> Cs | 0.66                     | β <sup>-</sup> | 101.4 d       | 0.00 %   |
| <sup>113</sup> Cs | 0.66                     | β <sup>-</sup> | 147.0 d       | 0.00 %   |
| <sup>112</sup> Cs | 0.66                     | β <sup>-</sup> | 215.1 d       | 0.00 %   |
| <sup>111</sup> Cs | 0.66                     | β <sup>-</sup> | 319.9 d       | 0.00 %   |
| <sup>110</sup> Cs | 0.66                     | β <sup>-</sup> | 468.6 d       | 0.00 %   |
| <sup>109</sup> Cs | 0.66                     | β <sup>-</sup> | 682.3 d       | 0.00 %   |
| <sup>108</sup> Cs | 0.66                     | β <sup>-</sup> | 1000.0 d      | 0.00 %   |
| <sup>107</sup> Cs | 0.66                     | β <sup>-</sup> | 1460.0 d      | 0.00 %   |
| <sup>106</sup> Cs | 0.66                     | β <sup>-</sup> | 2150.0 d      | 0.00 %   |
| <sup>105</sup> Cs | 0.66                     | β <sup>-</sup> | 3190.0 d      | 0.00 %   |
| <sup>104</sup> Cs | 0.66                     | β <sup>-</sup> | 4680.0 d      | 0.00 %   |
| <sup>103</sup> Cs | 0.66                     | β <sup>-</sup> | 6820.0 d      | 0.00 %   |
| <sup>102</sup> Cs | 0.66                     | β <sup>-</sup> | 10000.0 d     | 0.00 %   |
| <sup>101</sup> Cs | 0.66                     | β <sup>-</sup> | 14600.0 d     | 0.00 %   |
| <sup>100</sup> Cs | 0.66                     | β <sup>-</sup> | 21500.0 d     | 0.00 %   |
| <sup>99</sup> Cs  | 0.66                     | β <sup>-</sup> | 31900.0 d     | 0.00 %   |
| <sup>98</sup> Cs  | 0.66                     | β <sup>-</sup> | 46800.0 d     | 0.00 %   |
| <sup>97</sup> Cs  | 0.66                     | β <sup>-</sup> | 68200.0 d     | 0.00 %   |
| <sup>96</sup> Cs  | 0.66                     | β <sup>-</sup> | 100000.0 d    | 0.00 %   |
| <sup>95</sup> Cs  | 0.66                     | β <sup>-</sup> | 146000.0 d    | 0.00 %   |
| <sup>94</sup> Cs  | 0.66                     | β <sup>-</sup> | 215000.0 d    | 0.00 %   |
| <sup>93</sup> Cs  | 0.66                     | β <sup>-</sup> | 319000.0 d    | 0.00 %   |
| <sup>92</sup> Cs  | 0.66                     | β <sup>-</sup> | 468000.0 d    | 0.00 %   |
| <sup>91</sup> Cs  | 0.66                     | β <sup>-</sup> | 682000.0 d    | 0.00 %   |
| <sup>90</sup> Cs  | 0.66                     | β <sup>-</sup> | 1000000.0 d   | 0.00 %   |
| <sup>89</sup> Cs  | 0.66                     | β <sup>-</sup> | 1460000.0 d   | 0.00 %   |
| <sup>88</sup> Cs  | 0.66                     | β <sup>-</sup> | 2150000.0 d   | 0.00 %   |
| <sup>87</sup> Cs  | 0.66                     | β <sup>-</sup> | 3190000.0 d   | 0.00 %   |
| <sup>86</sup> Cs  | 0.66                     | β <sup>-</sup> | 4680000.0 d   | 0.00 %   |
| <sup>85</sup> Cs  | 0.66                     | β <sup>-</sup> | 6820000.0 d   | 0.00 %   |
| <sup>84</sup> Cs  | 0.66                     | β <sup>-</sup> | 10000000.0 d  | 0.00 %   |
| <sup>83</sup> Cs  | 0.66                     | β <sup>-</sup> | 14600000.0 d  | 0.00 %   |
| <sup>82</sup> Cs  | 0.66                     | β <sup>-</sup> | 21500000.0 d  | 0.00 %   |
| <sup>81</sup> Cs  | 0.66                     | β <sup>-</sup> | 31900000.0 d  | 0.00 %   |
| <sup>80</sup> Cs  | 0.66                     | β <sup>-</sup> | 46800000.0 d  | 0.00 %   |
| <sup>79</sup> Cs  | 0.66                     | β <sup>-</sup> | 68200000.0 d  | 0.00 %   |
| <sup>78</sup> Cs  | 0.66                     | β <sup>-</sup> | 100000000.0 d | 0.00 %   |
| <sup>77</sup> Cs  | 0.66                     | β <sup>-</sup> | 146000000.0 d | 0.00 %   |
| <sup>76</sup> Cs  | 0.66                     | β <sup>-</sup> | 215000000.0 d | 0.00 %   |
| <sup>75</sup> C   |                          |                |               |          |

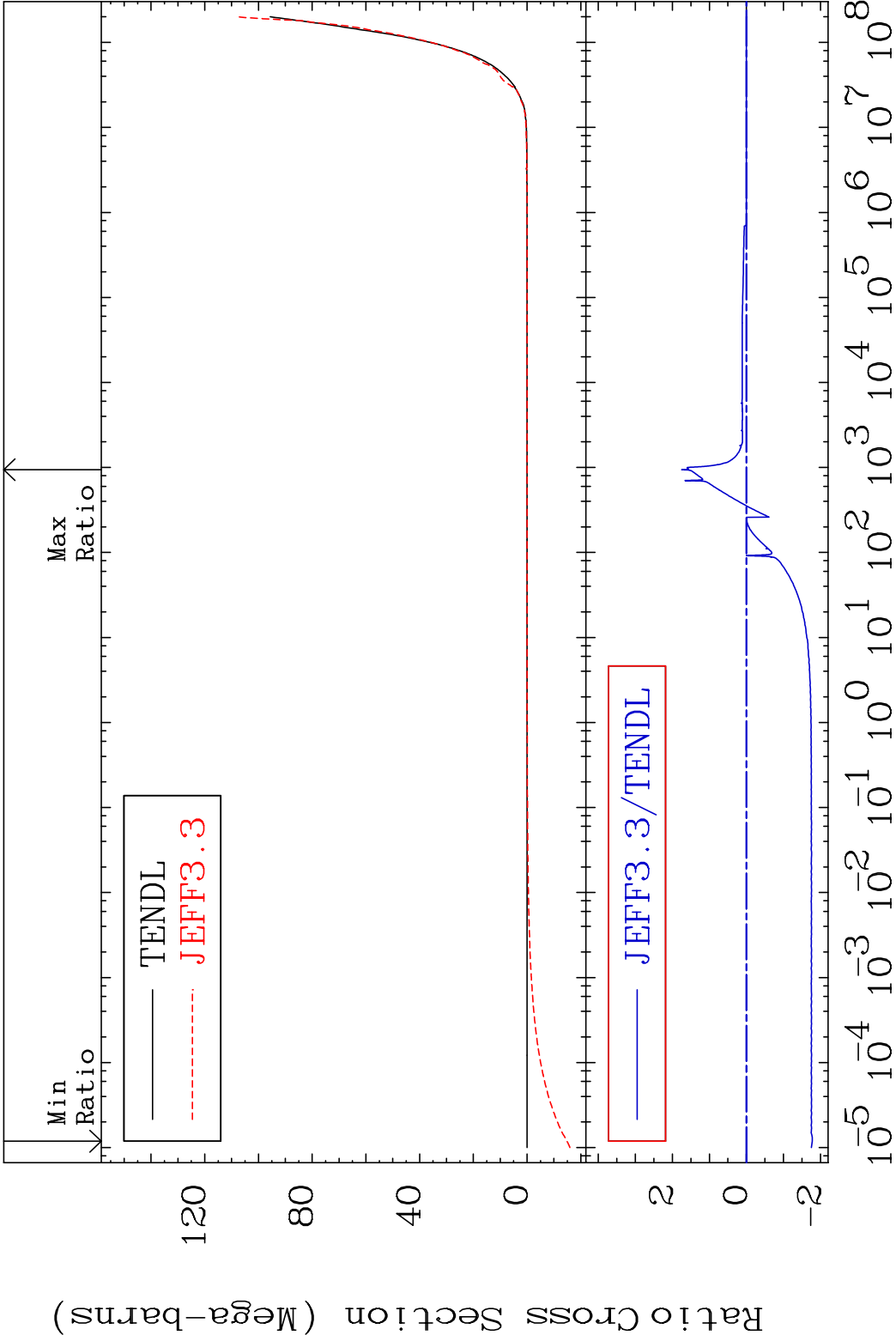




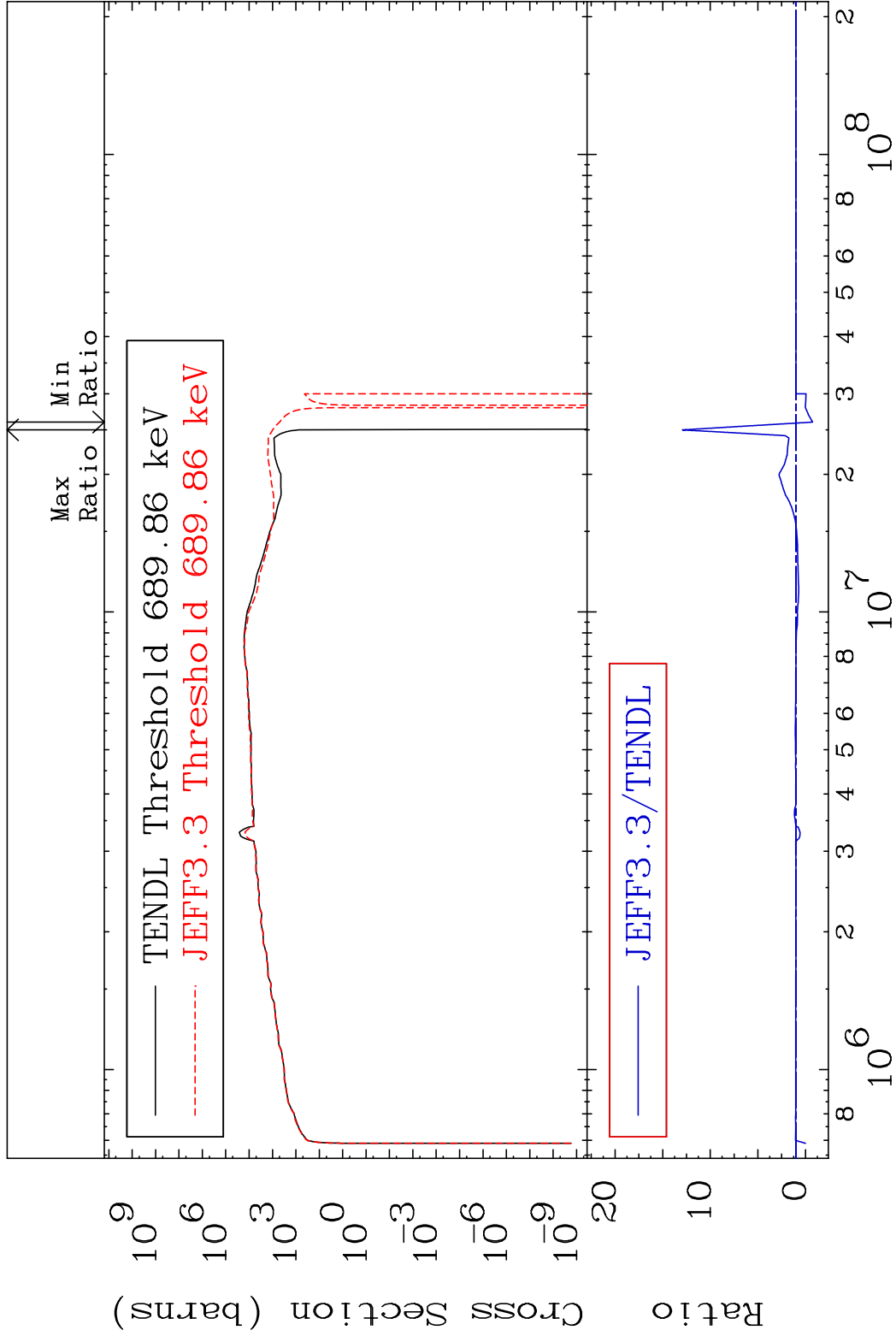




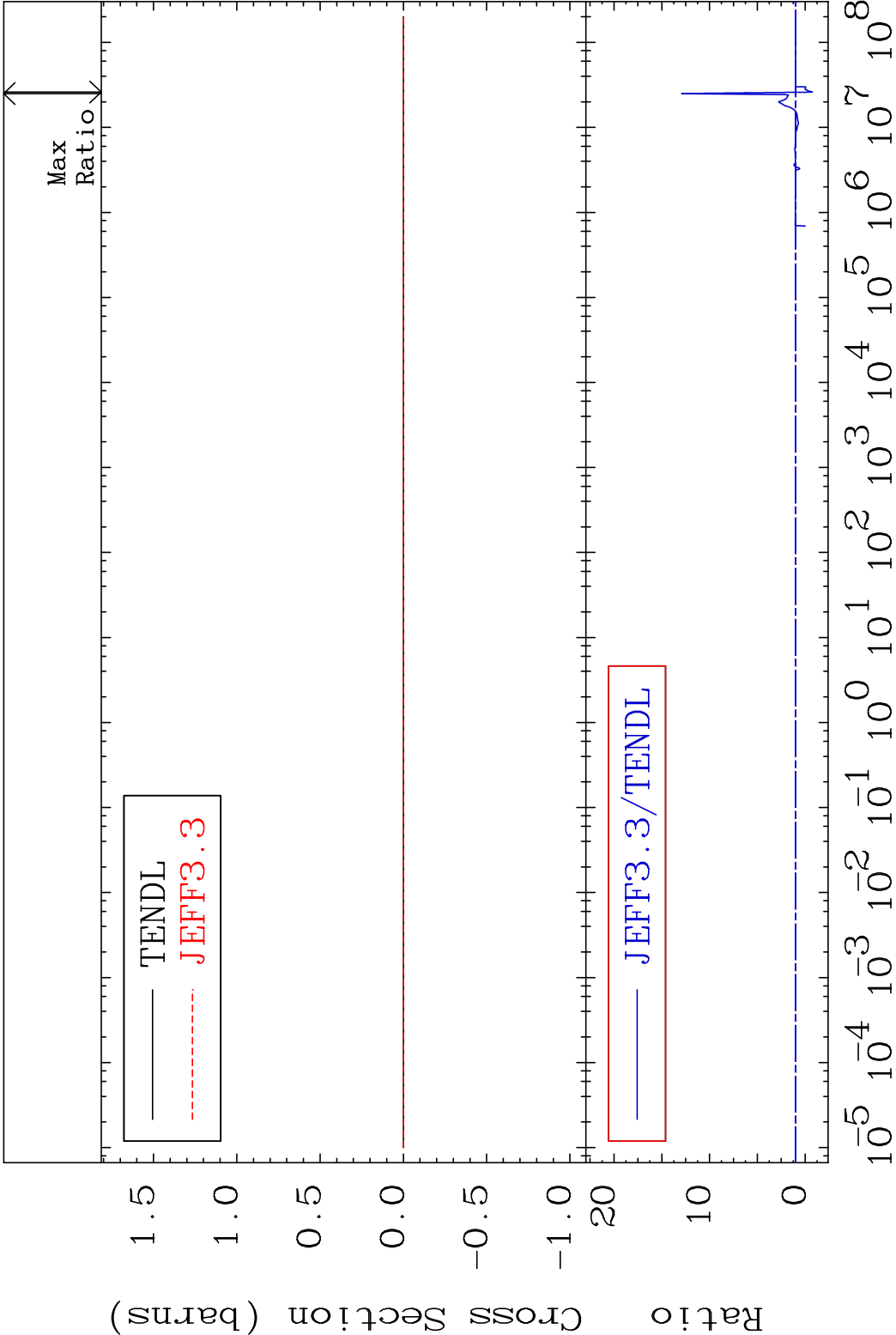




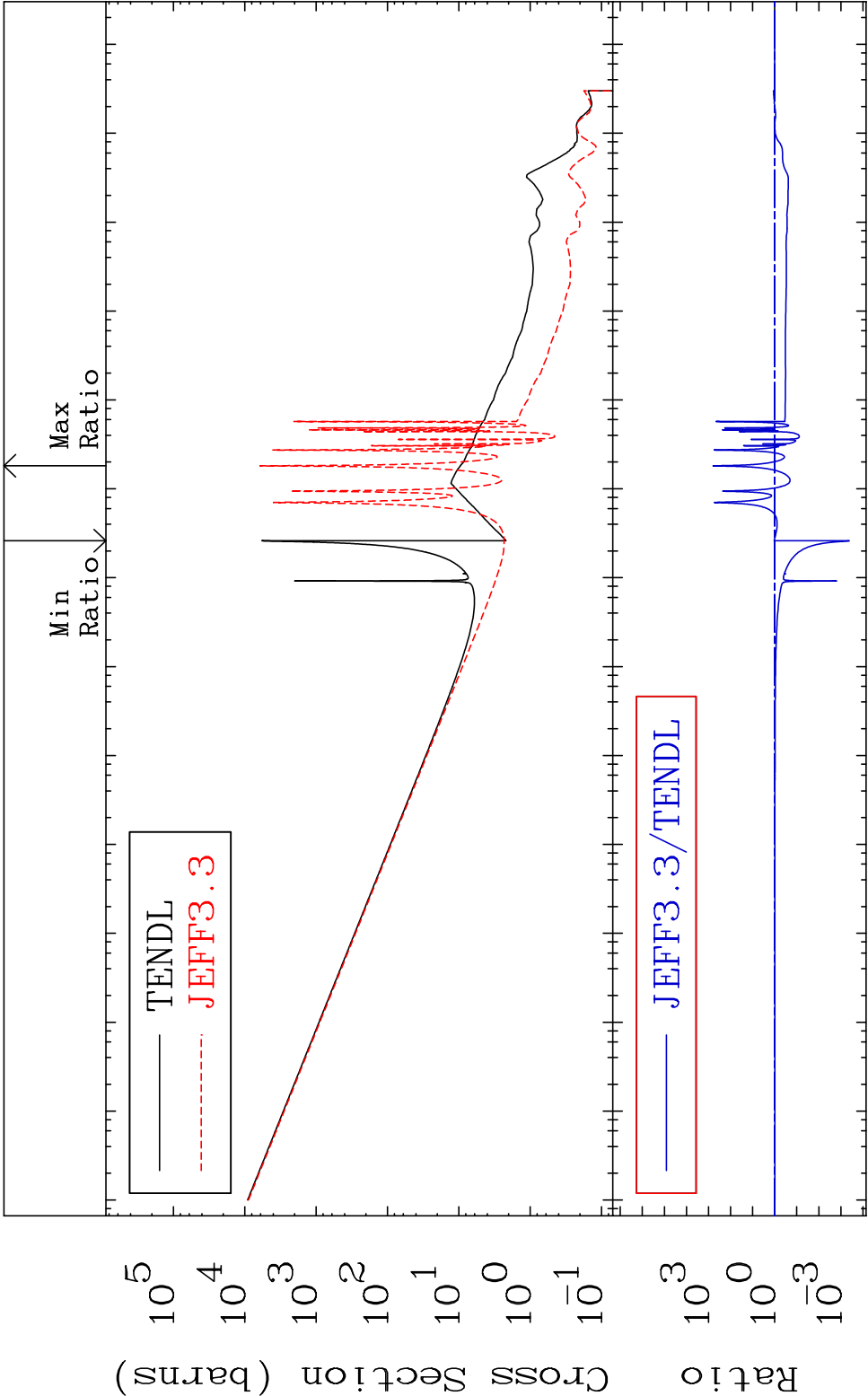


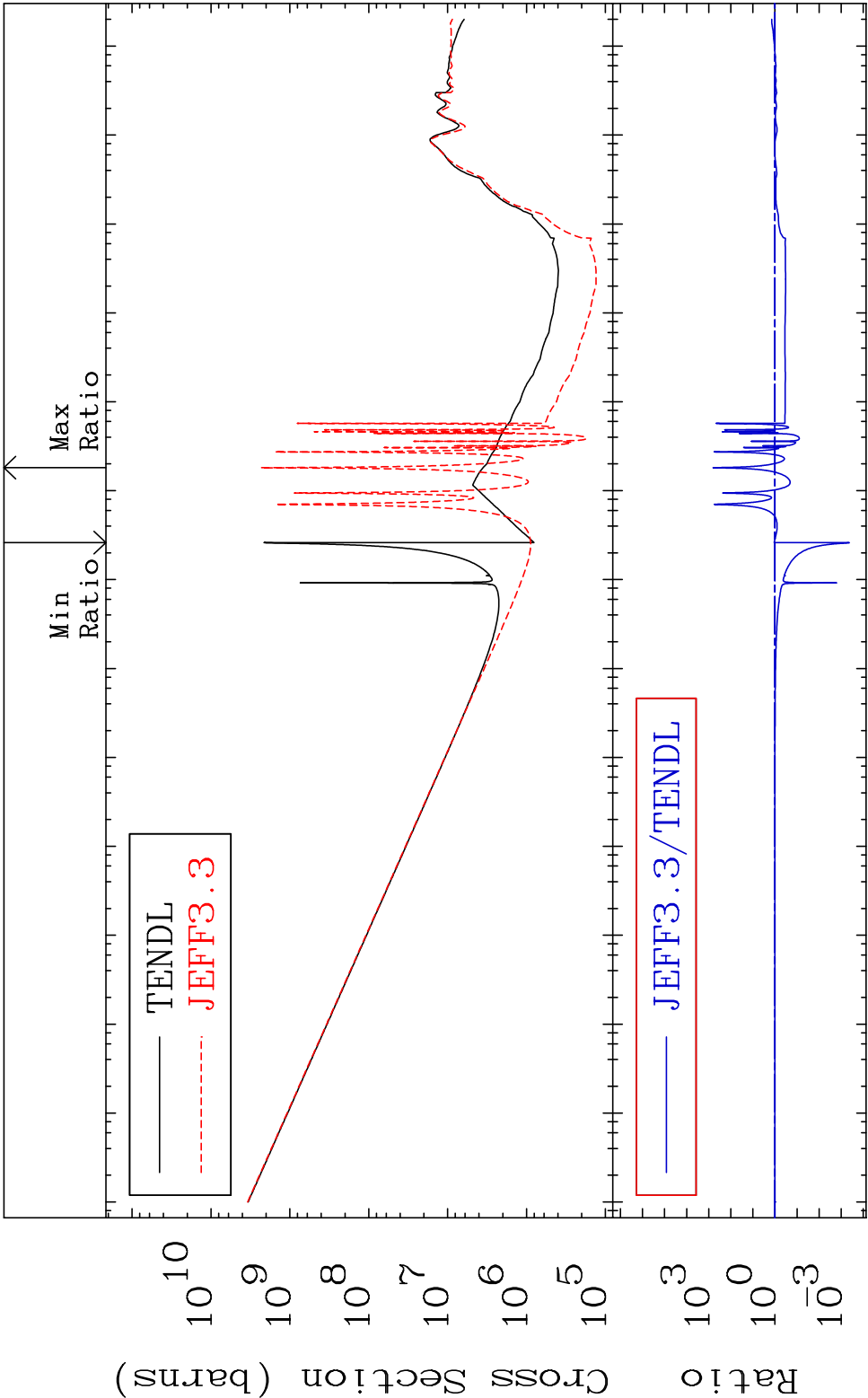


MAT 8431 Kerma fission (mt18 or mt19-20-21-38)84-Po-208  
Cross Section -174.1 To 1193. %

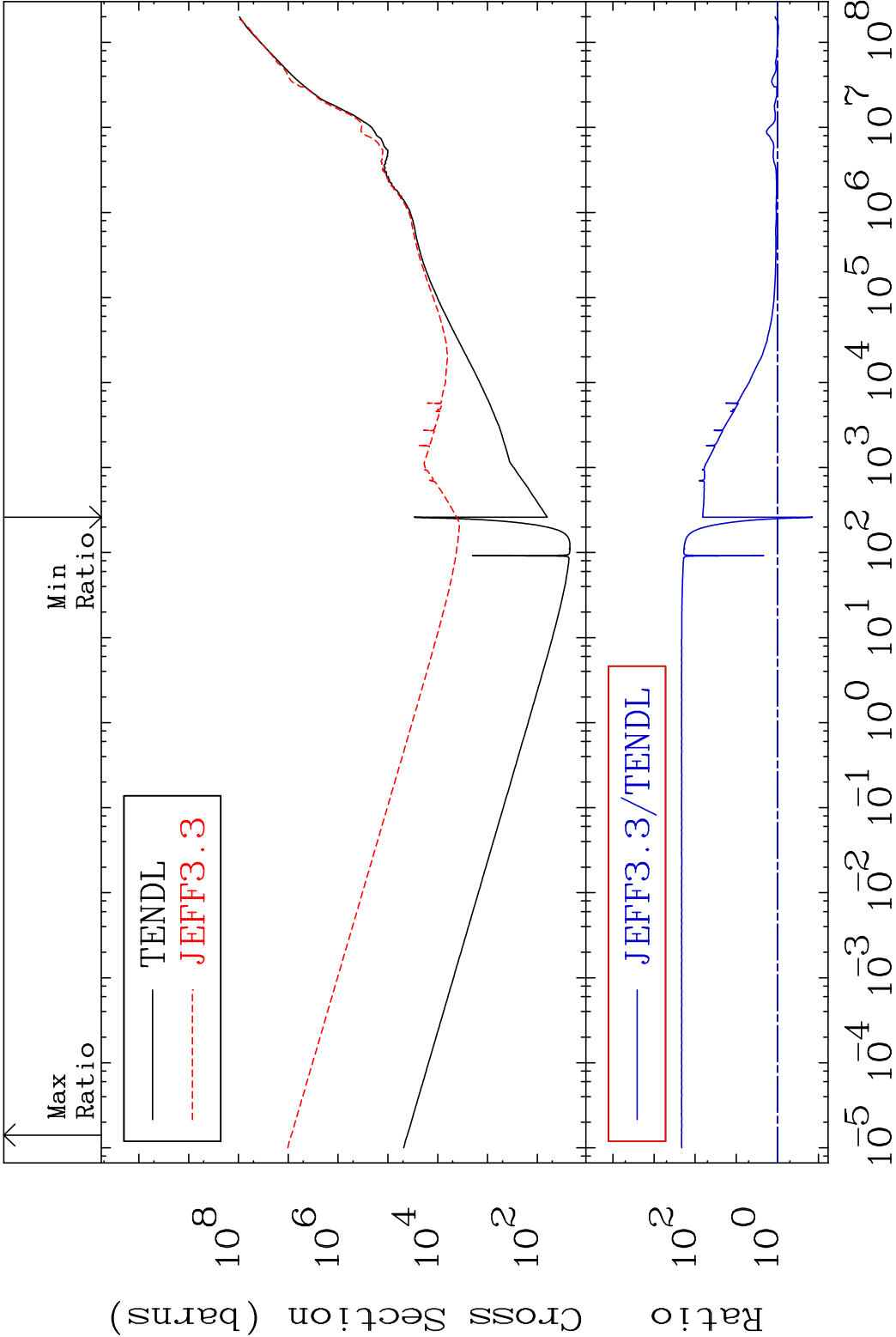


73 Incident Energy (eV) 84-Po-208

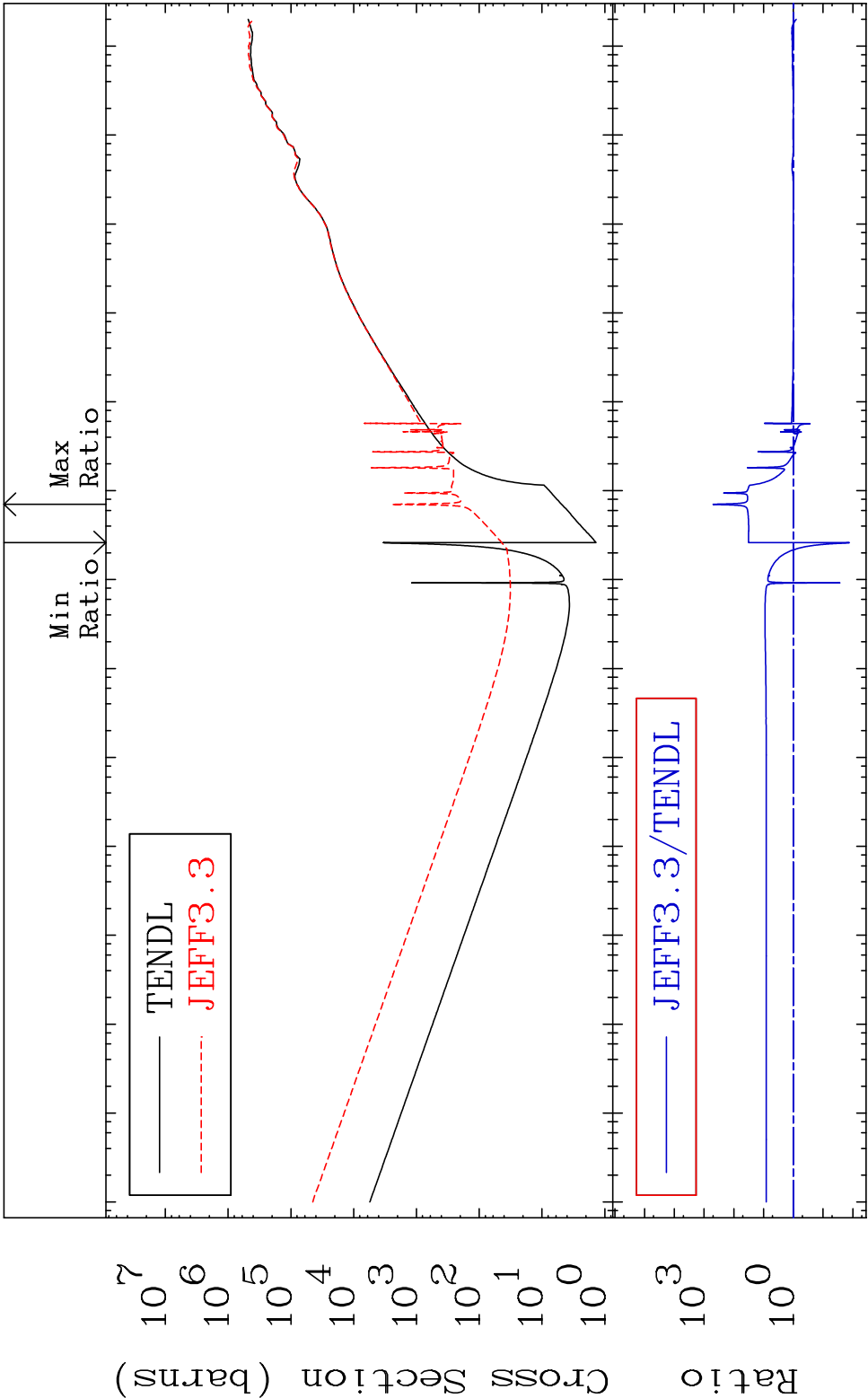




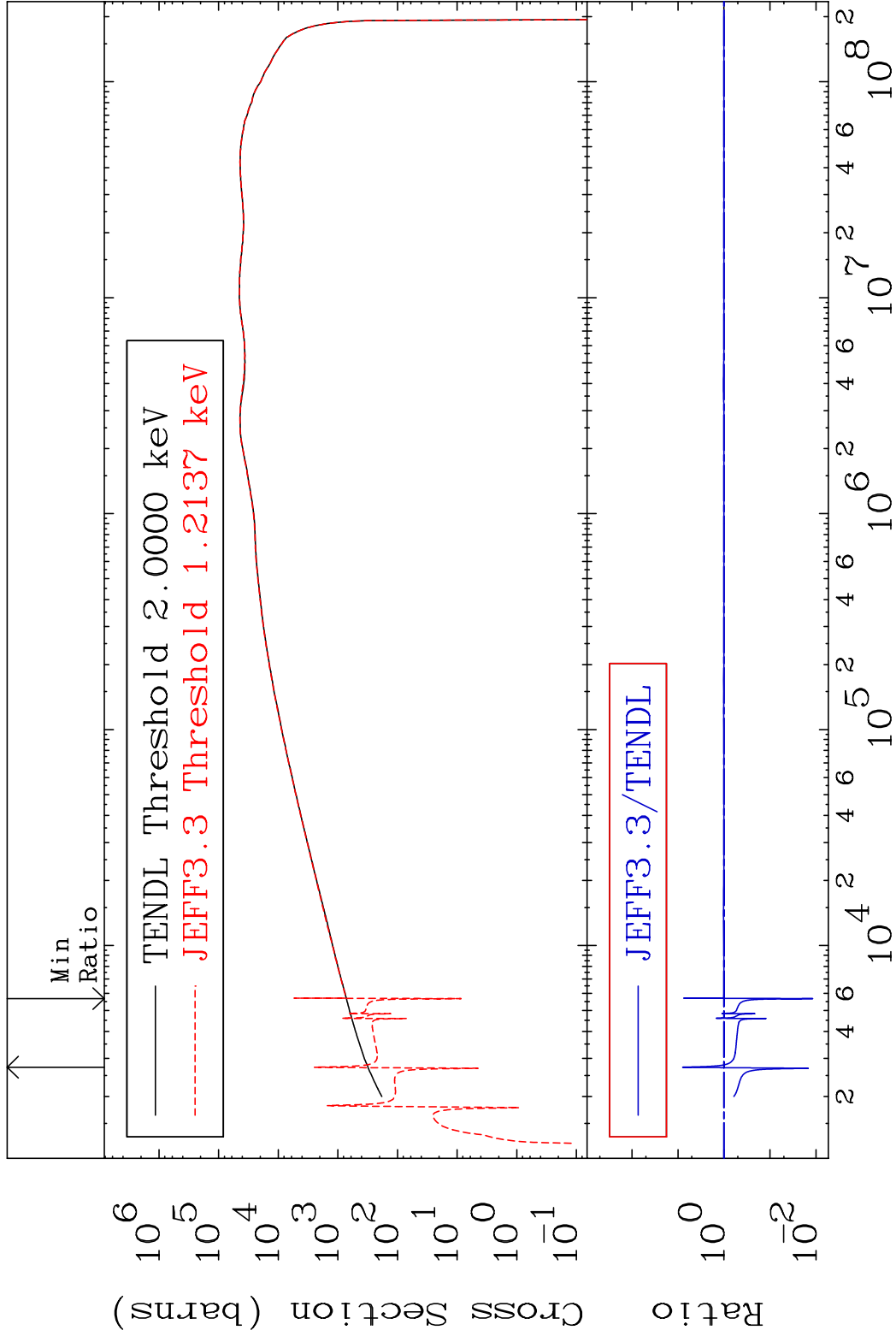
MAT 8431 Total kinematic kerma (high limit) 84-Po-208  
Cross Section -85.79 To 9999. %

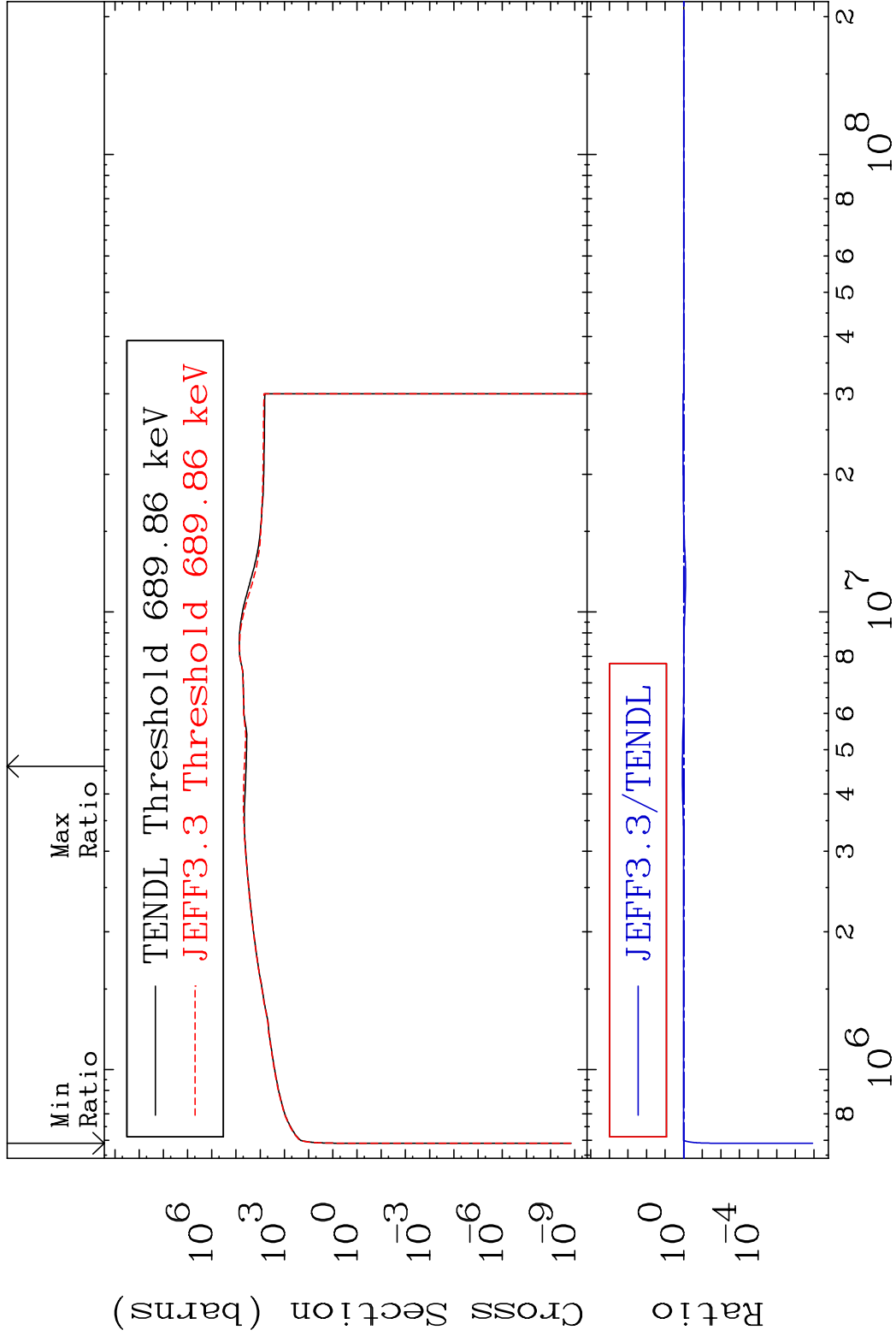


|          |                      |                   |
|----------|----------------------|-------------------|
| MAT 8431 | Dpa total (eV-barns) | 84-Po-208         |
|          | Cross Section        | -98.71 To 9999. % |

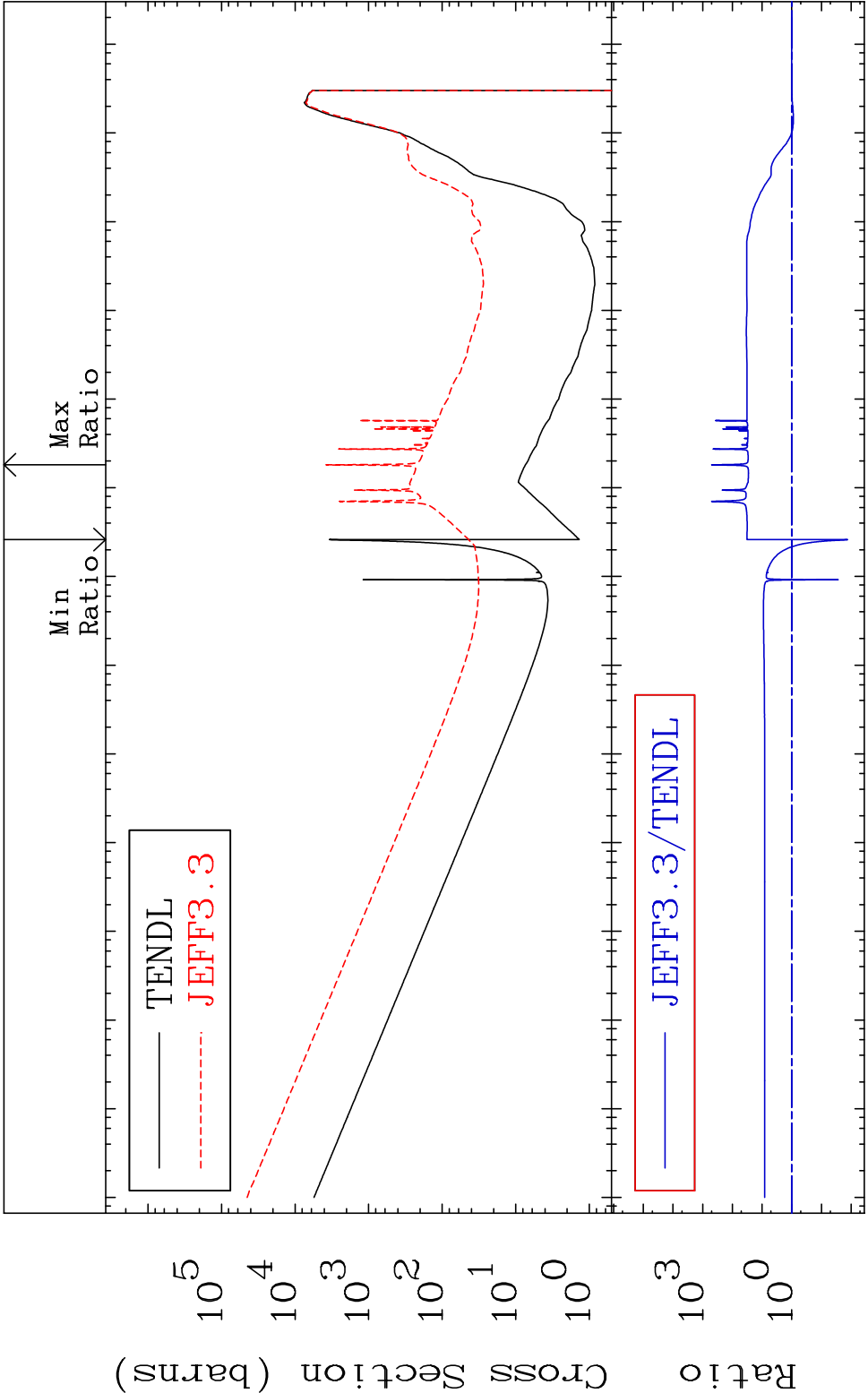


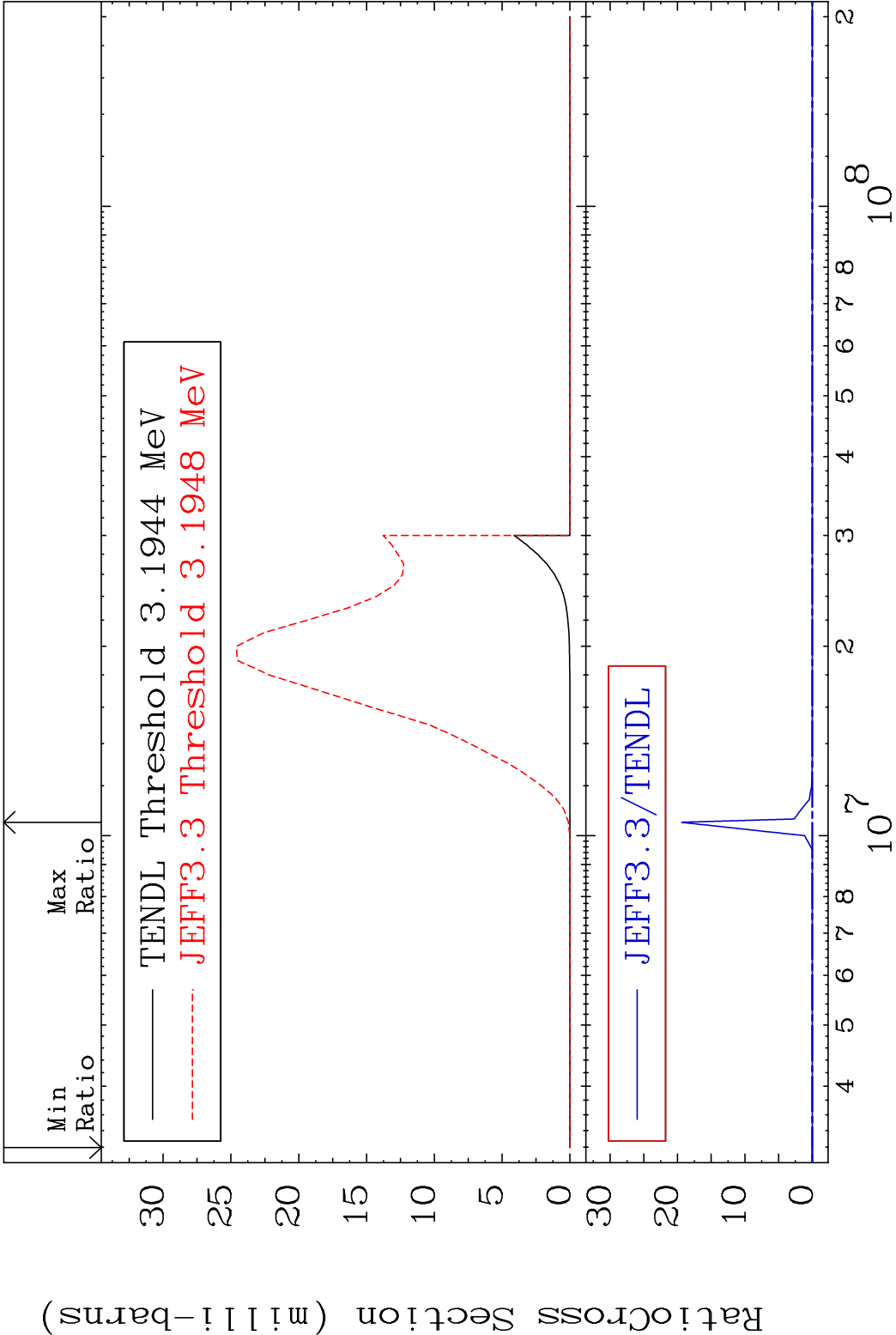
MAT 8431      Dpa elastic (mt2)      84-Po-208  
Cross Section      -98.81 To 703.3 %











Radionuclide Production Cross Section, %

