

Photon and electron fluence spectra ($\text{MeV}^{-1} \text{cm}^{-2}$) for $10 \text{ cm} \times 10 \text{ cm}$ and $15 \text{ cm} \times 15 \text{ cm}$ field sizes, respectively, at an SSD of 100 cm, of clinical accelerators of the Varian Clinac C series (e.g., models 2100, 18, 1800, 2300 and iX). The standard uncertainty in each bin is indicated within parenthesis as a percentage of the fluence. The first column corresponds to the lower energy of the bins. Note that PENELOPE-based codes require the lower energy (in eV) of each spectral bin; EGSnrc-based codes require the upper energy (in MeV) of the bins.

Energy (MeV)	Photon spectra				Electron spectra					
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
0.00	9.195E-07 (30.)	1.427E-07 (22.)	5.271E-06 (13.)	7.367E-07 (8.2)	1.645E-06 (8.1)	2.963E-06 (5.8)	–	–	–	–
0.05	1.590E-05 (2.2)	5.452E-05 (1.6)	6.778E-05 (1.3)	1.151E-04 (1.1)	1.474E-04 (0.9)	1.229E-04 (0.9)	–	–	–	–
0.10	8.232E-05 (1.8)	4.602E-04 (0.6)	2.849E-04 (0.9)	6.109E-05 (1.6)	2.272E-05 (2.4)	3.266E-04 (0.7)	7.523E-04(0.16)	1.807E-03(0.11)	2.231E-03(0.09)	2.992E-03(0.08)
0.15	2.950E-04 (0.7)	1.958E-03 (0.3)	5.095E-04 (0.5)	6.017E-04 (0.3)	5.013E-05 (1.6)	5.676E-04 (0.5)	1.180E-03(0.13)	2.863E-03(0.08)	3.628E-03(0.07)	4.928E-03(0.06)
0.20	5.962E-04 (0.3)	3.675E-03 (0.2)	6.947E-04 (0.4)	2.767E-03 (0.1)	9.732E-05 (1.2)	6.301E-04 (0.5)	9.040E-04(0.15)	2.220E-03(0.10)	2.913E-03(0.08)	4.013E-03(0.07)
0.25	8.113E-04 (0.2)	4.447E-03 (0.2)	8.213E-04 (0.3)	5.336E-03 (0.1)	1.504E-04 (1.0)	6.430E-04 (0.5)	7.427E-04(0.16)	1.834E-03(0.10)	2.472E-03(0.09)	3.445E-03(0.08)
0.30	9.220E-04 (0.2)	4.566E-03 (0.2)	9.108E-04 (0.3)	6.954E-03 (0.1)	2.105E-04 (0.8)	6.702E-04 (0.5)	6.330E-04(0.18)	1.562E-03(0.11)	2.156E-03(0.10)	3.026E-03(0.08)
0.35	9.639E-04 (0.2)	4.358E-03 (0.2)	9.617E-04 (0.2)	7.678E-03 (0.1)	3.008E-04 (0.7)	7.280E-04 (0.5)	5.617E-04(0.19)	1.366E-03(0.12)	1.916E-03(0.10)	2.708E-03(0.09)
0.40	9.731E-04 (0.2)	4.068E-03 (0.2)	9.977E-04 (0.2)	7.845E-03 (0.1)	4.507E-04 (0.6)	8.343E-04 (0.4)	5.101E-04(0.20)	1.230E-03(0.13)	1.751E-03(0.11)	2.486E-03(0.09)
0.45	9.533E-04 (0.2)	3.749E-03 (0.2)	1.029E-03 (0.2)	7.730E-03 (0.1)	6.370E-04 (0.5)	9.628E-04 (0.4)	4.703E-04(0.21)	1.109E-03(0.13)	1.591E-03(0.11)	2.260E-03(0.09)
0.50	9.814E-04 (0.2)	3.601E-03 (0.2)	1.221E-03 (0.2)	7.881E-03 (0.1)	1.430E-03 (0.3)	1.883E-03 (0.3)	4.408E-04(0.21)	1.025E-03(0.14)	1.472E-03(0.12)	2.102E-03(0.10)
0.55	8.996E-04 (0.2)	3.190E-03 (0.2)	1.020E-03 (0.2)	7.138E-03 (0.1)	1.002E-03 (0.4)	1.098E-03 (0.4)	4.211E-04(0.22)	9.522E-04(0.14)	1.377E-03(0.12)	1.966E-03(0.10)
0.60	8.702E-04 (0.2)	2.943E-03 (0.2)	1.028E-03 (0.2)	6.816E-03 (0.1)	1.191E-03 (0.4)	1.193E-03 (0.4)	4.030E-04(0.22)	8.948E-04(0.15)	1.302E-03(0.12)	1.869E-03(0.10)
0.65	8.383E-04 (0.2)	2.734E-03 (0.3)	1.026E-03 (0.2)	6.495E-03 (0.1)	1.348E-03 (0.3)	1.283E-03 (0.4)	3.906E-04(0.23)	8.485E-04(0.15)	1.241E-03(0.13)	1.786E-03(0.11)
0.70	8.084E-04 (0.2)	2.551E-03 (0.3)	1.025E-03 (0.2)	6.193E-03 (0.1)	1.475E-03 (0.3)	1.368E-03 (0.3)	3.820E-04(0.23)	8.106E-04(0.16)	1.187E-03(0.13)	1.712E-03(0.11)
0.75	7.799E-04 (0.2)	2.377E-03 (0.3)	1.018E-03 (0.2)	5.909E-03 (0.1)	1.591E-03 (0.3)	1.422E-03 (0.3)	3.738E-04(0.23)	7.770E-04(0.16)	1.143E-03(0.13)	1.649E-03(0.11)
0.80	7.553E-04 (0.2)	2.228E-03 (0.3)	1.016E-03 (0.2)	5.611E-03 (0.1)	1.694E-03 (0.3)	1.483E-03 (0.3)	3.697E-04(0.23)	7.465E-04(0.16)	1.103E-03(0.13)	1.592E-03(0.11)
0.85	7.270E-04 (0.2)	2.097E-03 (0.3)	1.009E-03 (0.2)	5.368E-03 (0.1)	1.771E-03 (0.3)	1.533E-03 (0.3)	3.662E-04(0.23)	7.218E-04(0.17)	1.067E-03(0.14)	1.544E-03(0.11)
0.90	6.972E-04 (0.2)	1.969E-03 (0.3)	1.002E-03 (0.2)	5.135E-03 (0.1)	1.815E-03 (0.3)	1.575E-03 (0.3)	3.632E-04(0.23)	7.023E-04(0.17)	1.040E-03(0.14)	1.501E-03(0.12)
0.95	6.727E-04 (0.2)	1.854E-03 (0.3)	9.980E-04 (0.2)	4.910E-03 (0.1)	1.861E-03 (0.3)	1.609E-03 (0.3)	3.599E-04(0.24)	6.811E-04(0.17)	1.010E-03(0.14)	1.462E-03(0.12)
1.00	6.513E-04 (0.2)	1.756E-03 (0.3)	9.869E-04 (0.2)	4.705E-03 (0.1)	1.902E-03 (0.3)	1.633E-03 (0.3)	3.563E-04(0.24)	6.642E-04(0.17)	9.830E-04(0.14)	1.426E-03(0.12)
1.05	6.297E-04 (0.2)	1.653E-03 (0.3)	9.747E-04 (0.2)	4.508E-03 (0.1)	1.923E-03 (0.3)	1.670E-03 (0.3)	3.588E-04(0.24)	6.510E-04(0.18)	9.620E-04(0.14)	1.394E-03(0.12)
1.10	6.053E-04 (0.2)	1.579E-03 (0.3)	9.672E-04 (0.2)	4.328E-03 (0.1)	1.948E-03 (0.3)	1.687E-03 (0.3)	3.603E-04(0.24)	6.367E-04(0.18)	9.384E-04(0.15)	1.360E-03(0.12)
1.15	5.843E-04 (0.2)	1.491E-03 (0.3)	9.585E-04 (0.2)	4.167E-03 (0.1)	1.965E-03 (0.3)	1.703E-03 (0.3)	3.615E-04(0.24)	6.219E-04(0.18)	9.208E-04(0.15)	1.336E-03(0.12)
1.20	5.630E-04 (0.2)	1.416E-03 (0.4)	9.464E-04 (0.2)	3.997E-03 (0.1)	1.963E-03 (0.3)	1.717E-03 (0.3)	3.649E-04(0.23)	6.126E-04(0.18)	9.009E-04(0.15)	1.312E-03(0.12)
1.25	5.452E-04 (0.2)	1.349E-03 (0.4)	9.332E-04 (0.2)	3.852E-03 (0.1)	1.961E-03 (0.3)	1.734E-03 (0.3)	3.680E-04(0.23)	6.043E-04(0.18)	8.873E-04(0.15)	1.286E-03(0.12)
1.30	5.254E-04 (0.2)	1.280E-03 (0.4)	9.221E-04 (0.2)	3.717E-03 (0.1)	1.940E-03 (0.3)	1.730E-03 (0.3)	3.699E-04(0.23)	5.956E-04(0.18)	8.730E-04(0.15)	1.265E-03(0.13)
1.35	5.106E-04 (0.2)	1.230E-03 (0.4)	9.098E-04 (0.2)	3.574E-03 (0.1)	1.932E-03 (0.3)	1.723E-03 (0.3)	3.732E-04(0.23)	5.863E-04(0.18)	8.585E-04(0.15)	1.247E-03(0.13)
1.40	4.901E-04 (0.3)	1.168E-03 (0.4)	8.941E-04 (0.2)	3.444E-03 (0.1)	1.912E-03 (0.3)	1.727E-03 (0.3)	3.774E-04(0.23)	5.803E-04(0.19)	8.464E-04(0.15)	1.224E-03(0.13)
1.45	4.735E-04 (0.3)	1.131E-03 (0.4)	8.789E-04 (0.2)	3.324E-03 (0.1)	1.896E-03 (0.3)	1.725E-03 (0.3)	3.807E-04(0.23)	5.712E-04(0.19)	8.330E-04(0.15)	1.209E-03(0.13)
1.50	4.597E-04 (0.3)	1.075E-03 (0.4)	8.639E-04 (0.2)	3.203E-03 (0.1)	1.864E-03 (0.3)	1.712E-03 (0.3)	3.846E-04(0.23)	5.662E-04(0.19)	8.219E-04(0.16)	1.192E-03(0.13)
1.55	4.457E-04 (0.3)	1.016E-03 (0.4)	8.514E-04 (0.2)	3.097E-03 (0.1)	1.829E-03 (0.3)	1.706E-03 (0.3)	3.910E-04(0.23)	5.624E-04(0.19)	8.109E-04(0.16)	1.179E-03(0.13)
1.60	4.283E-04 (0.3)	9.758E-04 (0.4)	8.421E-04 (0.2)	2.999E-03 (0.1)	1.809E-03 (0.3)	1.696E-03 (0.3)	3.977E-04(0.22)	5.574E-04(0.19)	8.022E-04(0.16)	1.163E-03(0.13)
1.65	4.129E-04 (0.3)	9.399E-04 (0.4)	8.248E-04 (0.2)	2.901E-03 (0.1)	1.780E-03 (0.3)	1.679E-03 (0.3)	4.035E-04(0.22)	5.536E-04(0.19)	7.908E-04(0.16)	1.148E-03(0.13)
1.70	4.001E-04 (0.3)	9.066E-04 (0.4)	8.100E-04 (0.2)	2.800E-03 (0.1)	1.744E-03 (0.3)	1.666E-03 (0.3)	4.091E-04(0.22)	5.489E-04(0.19)	7.815E-04(0.16)	1.134E-03(0.13)
1.75	3.850E-04 (0.3)	8.614E-04 (0.4)	7.958E-04 (0.2)	2.711E-03 (0.1)	1.722E-03 (0.3)	1.633E-03 (0.3)	4.161E-04(0.22)	5.459E-04(0.19)	7.751E-04(0.16)	1.120E-03(0.13)
1.80	3.734E-04 (0.3)	8.316E-04 (0.5)	7.820E-04 (0.2)	2.624E-03 (0.1)	1.697E-03 (0.3)	1.636E-03 (0.3)	4.224E-04(0.22)	5.422E-04(0.19)	7.685E-04(0.16)	1.109E-03(0.13)
1.85	3.591E-04 (0.3)	8.005E-04 (0.5)	7.655E-04 (0.2)	2.546E-03 (0.1)	1.656E-03 (0.3)	1.610E-03 (0.3)	4.286E-04(0.22)	5.385E-04(0.19)	7.595E-04(0.16)	1.095E-03(0.14)
1.90	3.506E-04 (0.3)	7.689E-04 (0.5)	7.521E-04 (0.2)	2.467E-03 (0.2)	1.619E-03 (0.3)	1.612E-03 (0.3)	4.380E-04(0.21)	5.372E-04(0.19)	7.524E-04(0.16)	1.086E-03(0.14)
1.95	3.377E-04 (0.3)	7.404E-04 (0.5)	7.389E-04 (0.2)	2.386E-03 (0.2)	1.589E-03 (0.3)	1.580E-03 (0.3)	4.465E-04(0.21)	5.359E-04(0.19)	7.435E-04(0.16)	1.077E-03(0.14)
2.00	3.249E-04 (0.3)	7.115E-04 (0.5)	7.254E-04 (0.2)	2.326E-03 (0.2)	1.565E-03 (0.3)	1.557E-03 (0.3)	4.541E-04(0.21)	5.356E-04(0.19)	7.388E-04(0.16)	1.067E-03(0.14)
2.05	3.158E-04 (0.3)	6.869E-04 (0.5)	7.120E-04 (0.2)	2.249E-03 (0.2)	1.528E-03 (0.3)	1.535E-03 (0.3)	4.623E-04(0.21)	5.340E-04(0.19)	7.335E-04(0.16)	1.058E-03(0.14)
2.10	3.058E-04 (0.3)	6.540E-04 (0.5)	6.982E-04 (0.2)	2.185E-03 (0.2)	1.493E-03 (0.3)	1.520E-03 (0.3)	4.727E-04(0.21)	5.301E-04(0.19)	7.311E-04(0.17)	1.047E-03(0.14)
2.15	2.974E-04 (0.3)	6.355E-04 (0.5)	6.835E-04 (0.2)	2.124E-03 (0.2)	1.468E-03 (0.3)	1.492E-03 (0.3)	4.825E-04(0.20)	5.320E-04(0.19)	7.243E-04(0.17)	1.038E-03(0.14)
2.20	2.867E-04 (0.3)	6.119E-04 (0.5)	6.718E-04 (0.2)	2.069E-03 (0.2)	1.435E-03 (0.3)	1.483E-03 (0.3)	4.925E-04(0.20)	5.304E-04(0.19)	7.194E-04(0.17)	1.031E-03(0.14)
2.25	2.776E-04 (0.3)	5.896E-04 (0.5)	6.608E-04 (0.2)	2.010E-03 (0.2)	1.401E-03 (0.3)	1.456E-03 (0.3)	5.051E-04(0.20)	5.304E-04(0.19)	7.132E-04(0.17)	1.024E-03(0.14)
2.30	2.686E-04 (0.3)	5.701E-04 (0.6)	6.454E-04 (0.2)	1.954E-03 (0.2)	1.370E-03 (0.4)	1.439E-03 (0.3)	5.125E-04(0.20)	5.287E-04(0.19)	7.101E-04(0.17)	1.014E-03(0.14)
2.35	2.592E-04 (0.3)	5.543E-04 (0.6)	6.377E-04 (0.2)	1.903E-03 (0.2)	1.351E-03 (0.4)	1.418E-03 (0.3)	5.268E-04(0.19)	5.310E-04(0.19)	7.064E-04(0.17)	1.008E-03(0.14)
2.40	2.519E-04 (0.3)	5.361E-04 (0.6)	6.230E-04 (0.2)	1.847E-03 (0.2)	1.316E-03 (0.4)	1.396E-03 (0.3)	5.369E-04(0.19)	5.290E-04(0.19)	7.026E-04(0.17)	1.001E-03(0.14)
2.45	2.438E-04 (0.3)	5.112E-04 (0.6)	6.115E-04 (0.2)	1.799E-03 (0.2)	1.293E-03 (0.4)	1.377E-03 (0.3)	5.482E-04(0.19)	5.306E-04(0.19)	6.994E-04(0.17)	9.957E-04(0.14)
2.50	2.371E-04 (0.3)	4.961E-04 (0.6)	5.979E-04 (0.2)	1.758E-03 (0.2)	1.270E-03 (0.4)	1.359E-03 (0.4)	5.612E-04(0.19)	5.315E-04(0.19)	6.953E-04(0.17)	9.906E-04(0.14)
2.55	2.286E-04 (0.3)	4.824E-04 (0.6)	5.874E-04 (0.2)	1.703E-03 (0.2)	1.237E-03 (0.4)	1.327E-03 (0.4)	5.758E-04(0.19)	5.324E-04(0.19)	6.909E-04(0.17)	9.821E-04(0.14)
2.60	2.233E-04 (0.3)	4.676E-04 (0.6)	5.748E-04 (0.2)	1.668E-03 (0.2)	1.219E-03 (0.4)	1.319E-03 (0.4)	5.920E-04(0.18)	5.330E-04(0.19)	6.893E-04(0.17)	9.759E-04(0.14)
2.65	2.154E-04 (0.3)	4.557E-04 (0.6)	5.642E-04 (0.2)	1.615E-03 (0.2)	1.194E-03 (0.4)	1.300E-03 (0.4)	6.049E-04(0.18)	5.326E-04(0.19)	6.864E-04(0.17)	9.702E-04(0.14)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
2.70	2.086E-04 (0.3)	4.328E-04 (0.6)	5.545E-04 (0.2)	1.580E-03 (0.2)	1.164E-03 (0.4)	1.280E-03 (0.4)	6.175E-04(0.18)	5.333E-04(0.19)	6.844E-04(0.17)	9.643E-04(0.14)
2.75	2.037E-04 (0.4)	4.199E-04 (0.6)	5.437E-04 (0.2)	1.541E-03 (0.2)	1.138E-03 (0.4)	1.250E-03 (0.4)	6.350E-04(0.18)	5.362E-04(0.19)	6.806E-04(0.17)	9.591E-04(0.14)
2.80	1.972E-04 (0.4)	4.066E-04 (0.7)	5.331E-04 (0.2)	1.499E-03 (0.2)	1.113E-03 (0.4)	1.237E-03 (0.4)	6.495E-04(0.18)	5.378E-04(0.19)	6.793E-04(0.17)	9.547E-04(0.14)
2.85	1.919E-04 (0.4)	3.981E-04 (0.7)	5.219E-04 (0.2)	1.467E-03 (0.2)	1.091E-03 (0.4)	1.222E-03 (0.4)	6.650E-04(0.17)	5.404E-04(0.19)	6.739E-04(0.17)	9.484E-04(0.15)
2.90	1.845E-04 (0.4)	3.827E-04 (0.7)	5.130E-04 (0.2)	1.429E-03 (0.2)	1.070E-03 (0.4)	1.206E-03 (0.4)	6.836E-04(0.17)	5.425E-04(0.19)	6.736E-04(0.17)	9.472E-04(0.15)
2.95	1.797E-04 (0.4)	3.704E-04 (0.7)	5.033E-04 (0.2)	1.394E-03 (0.2)	1.046E-03 (0.4)	1.195E-03 (0.4)	7.024E-04(0.17)	5.425E-04(0.19)	6.696E-04(0.17)	9.408E-04(0.15)
3.00	1.743E-04 (0.4)	3.628E-04 (0.7)	4.937E-04 (0.2)	1.367E-03 (0.2)	1.035E-03 (0.4)	1.168E-03 (0.4)	7.182E-04(0.17)	5.460E-04(0.19)	6.696E-04(0.17)	9.358E-04(0.15)
3.05	1.699E-04 (0.4)	3.535E-04 (0.7)	4.837E-04 (0.2)	1.334E-03 (0.2)	1.013E-03 (0.4)	1.152E-03 (0.4)	7.370E-04(0.16)	5.498E-04(0.19)	6.674E-04(0.17)	9.325E-04(0.15)
3.10	1.646E-04 (0.4)	3.404E-04 (0.7)	4.772E-04 (0.2)	1.298E-03 (0.2)	9.906E-04 (0.4)	1.136E-03 (0.4)	7.555E-04(0.16)	5.493E-04(0.19)	6.646E-04(0.17)	9.284E-04(0.15)
3.15	1.599E-04 (0.4)	3.320E-04 (0.7)	4.634E-04 (0.2)	1.271E-03 (0.2)	9.748E-04 (0.4)	1.123E-03 (0.4)	7.752E-04(0.16)	5.545E-04(0.19)	6.644E-04(0.17)	9.253E-04(0.15)
3.20	1.561E-04 (0.4)	3.201E-04 (0.7)	4.591E-04 (0.2)	1.244E-03 (0.2)	9.544E-04 (0.4)	1.094E-03 (0.4)	7.947E-04(0.16)	5.555E-04(0.19)	6.649E-04(0.17)	9.189E-04(0.15)
3.25	1.492E-04 (0.4)	3.040E-04 (0.8)	4.489E-04 (0.3)	1.214E-03 (0.2)	9.248E-04 (0.4)	1.078E-03 (0.4)	8.127E-04(0.16)	5.591E-04(0.19)	6.604E-04(0.17)	9.171E-04(0.15)
3.30	1.461E-04 (0.4)	3.023E-04 (0.8)	4.408E-04 (0.3)	1.189E-03 (0.2)	9.155E-04 (0.4)	1.065E-03 (0.4)	8.316E-04(0.16)	5.617E-04(0.19)	6.599E-04(0.17)	9.134E-04(0.15)
3.35	1.414E-04 (0.4)	2.941E-04 (0.8)	4.349E-04 (0.3)	1.161E-03 (0.2)	8.907E-04 (0.4)	1.055E-03 (0.4)	8.511E-04(0.15)	5.658E-04(0.19)	6.606E-04(0.17)	9.124E-04(0.15)
3.40	1.377E-04 (0.4)	2.847E-04 (0.8)	4.263E-04 (0.3)	1.137E-03 (0.2)	8.770E-04 (0.4)	1.044E-03 (0.4)	8.699E-04(0.15)	5.668E-04(0.19)	6.589E-04(0.17)	9.050E-04(0.15)
3.45	1.329E-04 (0.4)	2.756E-04 (0.8)	4.171E-04 (0.3)	1.110E-03 (0.2)	8.594E-04 (0.4)	1.026E-03 (0.4)	8.921E-04(0.15)	5.728E-04(0.19)	6.558E-04(0.17)	9.043E-04(0.15)
3.50	1.292E-04 (0.4)	2.658E-04 (0.8)	4.098E-04 (0.3)	1.083E-03 (0.2)	8.471E-04 (0.4)	1.017E-03 (0.4)	9.129E-04(0.15)	5.758E-04(0.19)	6.544E-04(0.17)	8.992E-04(0.15)
3.55	1.255E-04 (0.4)	2.595E-04 (0.8)	4.018E-04 (0.3)	1.067E-03 (0.2)	8.363E-04 (0.5)	9.876E-04 (0.4)	9.336E-04(0.15)	5.777E-04(0.19)	6.585E-04(0.17)	8.966E-04(0.15)
3.60	1.222E-04 (0.4)	2.531E-04 (0.8)	3.948E-04 (0.3)	1.036E-03 (0.2)	8.163E-04 (0.5)	9.772E-04 (0.4)	9.572E-04(0.14)	5.801E-04(0.19)	6.561E-04(0.17)	8.954E-04(0.15)
3.65	1.180E-04 (0.4)	2.421E-04 (0.8)	3.866E-04 (0.3)	1.018E-03 (0.2)	8.016E-04 (0.5)	9.546E-04 (0.4)	9.830E-04(0.14)	5.856E-04(0.18)	6.543E-04(0.17)	8.904E-04(0.15)
3.70	1.153E-04 (0.4)	2.344E-04 (0.9)	3.803E-04 (0.3)	9.990E-04 (0.2)	7.797E-04 (0.5)	9.397E-04 (0.4)	1.006E-03(0.14)	5.876E-04(0.18)	6.554E-04(0.17)	8.880E-04(0.15)
3.75	1.118E-04 (0.4)	2.299E-04 (0.9)	3.739E-04 (0.3)	9.792E-04 (0.2)	7.687E-04 (0.5)	9.323E-04 (0.4)	1.033E-03(0.14)	5.939E-04(0.18)	6.552E-04(0.17)	8.883E-04(0.15)
3.80	1.072E-04 (0.5)	2.271E-04 (0.9)	3.658E-04 (0.3)	9.593E-04 (0.2)	7.496E-04 (0.5)	9.166E-04 (0.4)	1.066E-03(0.14)	5.973E-04(0.18)	6.529E-04(0.18)	8.848E-04(0.15)
3.85	1.042E-04 (0.5)	2.160E-04 (0.9)	3.600E-04 (0.3)	9.361E-04 (0.2)	7.365E-04 (0.5)	9.038E-04 (0.4)	1.094E-03(0.14)	6.013E-04(0.18)	6.541E-04(0.17)	8.819E-04(0.15)
3.90	1.008E-04 (0.5)	2.136E-04 (0.9)	3.540E-04 (0.3)	9.196E-04 (0.2)	7.220E-04 (0.5)	8.909E-04 (0.4)	1.127E-03(0.13)	6.066E-04(0.18)	6.551E-04(0.17)	8.766E-04(0.15)
3.95	9.805E-05 (0.5)	2.060E-04 (0.9)	3.472E-04 (0.3)	9.035E-04 (0.2)	7.166E-04 (0.5)	8.842E-04 (0.4)	1.164E-03(0.13)	6.110E-04(0.18)	6.560E-04(0.17)	8.761E-04(0.15)
4.00	9.493E-05 (0.5)	1.972E-04 (0.9)	3.403E-04 (0.3)	8.829E-04 (0.3)	7.041E-04 (0.5)	8.635E-04 (0.4)	1.202E-03(0.13)	6.170E-04(0.18)	6.548E-04(0.17)	8.795E-04(0.15)
4.05	9.166E-05 (0.5)	1.928E-04 (1.0)	3.340E-04 (0.3)	8.653E-04 (0.3)	6.872E-04 (0.5)	8.502E-04 (0.4)	1.248E-03(0.13)	6.209E-04(0.18)	6.548E-04(0.17)	8.742E-04(0.15)
4.10	8.842E-05 (0.5)	1.921E-04 (1.0)	3.310E-04 (0.3)	8.479E-04 (0.3)	6.742E-04 (0.5)	8.318E-04 (0.5)	1.291E-03(0.12)	6.249E-04(0.18)	6.552E-04(0.17)	8.737E-04(0.15)
4.15	8.535E-05 (0.5)	1.812E-04 (1.0)	3.241E-04 (0.3)	8.314E-04 (0.3)	6.615E-04 (0.5)	8.242E-04 (0.5)	1.346E-03(0.12)	6.307E-04(0.18)	6.556E-04(0.17)	8.703E-04(0.15)
4.20	8.318E-05 (0.5)	1.783E-04 (1.0)	3.174E-04 (0.3)	8.142E-04 (0.3)	6.501E-04 (0.5)	8.189E-04 (0.5)	1.402E-03(0.12)	6.360E-04(0.18)	6.547E-04(0.17)	8.689E-04(0.15)
4.25	7.986E-05 (0.5)	1.740E-04 (1.0)	3.116E-04 (0.3)	8.001E-04 (0.3)	6.421E-04 (0.5)	8.039E-04 (0.5)	1.471E-03(0.12)	6.409E-04(0.18)	6.586E-04(0.17)	8.692E-04(0.15)
4.30	7.744E-05 (0.5)	1.648E-04 (1.0)	3.088E-04 (0.3)	7.866E-04 (0.3)	6.361E-04 (0.5)	7.937E-04 (0.5)	1.539E-03(0.11)	6.473E-04(0.18)	6.570E-04(0.17)	8.674E-04(0.15)
4.35	7.325E-05 (0.5)	1.615E-04 (1.0)	3.000E-04 (0.3)	7.694E-04 (0.3)	6.166E-04 (0.5)	7.827E-04 (0.5)	1.615E-03(0.11)	6.519E-04(0.18)	6.569E-04(0.17)	8.660E-04(0.15)
4.40	7.100E-05 (0.5)	1.570E-04 (1.1)	2.973E-04 (0.3)	7.546E-04 (0.3)	6.093E-04 (0.5)	7.755E-04 (0.5)	1.701E-03(0.11)	6.570E-04(0.17)	6.591E-04(0.17)	8.643E-04(0.15)
4.45	6.847E-05 (0.6)	1.516E-04 (1.1)	2.896E-04 (0.3)	7.423E-04 (0.3)	5.948E-04 (0.5)	7.636E-04 (0.5)	1.793E-03(0.11)	6.636E-04(0.17)	6.601E-04(0.17)	8.629E-04(0.15)
4.50	6.620E-05 (0.6)	1.465E-04 (1.1)	2.854E-04 (0.3)	7.253E-04 (0.3)	5.897E-04 (0.5)	7.449E-04 (0.5)	1.892E-03(0.10)	6.702E-04(0.17)	6.612E-04(0.17)	8.604E-04(0.15)
4.55	6.267E-05 (0.6)	1.436E-04 (1.1)	2.807E-04 (0.3)	7.120E-04 (0.3)	5.753E-04 (0.5)	7.384E-04 (0.5)	2.005E-03(0.10)	6.774E-04(0.17)	6.619E-04(0.17)	8.612E-04(0.15)
4.60	5.988E-05 (0.6)	1.368E-04 (1.1)	2.761E-04 (0.3)	6.995E-04 (0.3)	5.682E-04 (0.6)	7.268E-04 (0.5)	2.131E-03(0.10)	6.812E-04(0.17)	6.620E-04(0.17)	8.568E-04(0.15)
4.65	5.706E-05 (0.6)	1.318E-04 (1.2)	2.719E-04 (0.3)	6.889E-04 (0.3)	5.586E-04 (0.6)	7.198E-04 (0.5)	2.261E-03(0.09)	6.845E-04(0.17)	6.625E-04(0.17)	8.587E-04(0.15)
4.70	5.494E-05 (0.6)	1.283E-04 (1.2)	2.666E-04 (0.3)	6.808E-04 (0.3)	5.492E-04 (0.6)	7.087E-04 (0.5)	2.411E-03(0.09)	6.937E-04(0.17)	6.634E-04(0.17)	8.578E-04(0.15)
4.75	5.085E-05 (0.6)	1.227E-04 (1.2)	2.629E-04 (0.3)	6.655E-04 (0.3)	5.373E-04 (0.6)	7.017E-04 (0.5)	2.576E-03(0.09)	7.039E-04(0.17)	6.663E-04(0.17)	8.564E-04(0.15)
4.80	4.896E-05 (0.7)	1.197E-04 (1.2)	2.590E-04 (0.3)	6.547E-04 (0.3)	5.284E-04 (0.6)	6.849E-04 (0.5)	2.758E-03(0.09)	7.068E-04(0.17)	6.668E-04(0.17)	8.551E-04(0.15)
4.85	4.627E-05 (0.7)	1.145E-04 (1.2)	2.550E-04 (0.3)	6.428E-04 (0.3)	5.153E-04 (0.6)	6.749E-04 (0.5)	2.962E-03(0.08)	7.127E-04(0.17)	6.675E-04(0.17)	8.557E-04(0.15)
4.90	4.306E-05 (0.7)	1.087E-04 (1.3)	2.498E-04 (0.3)	6.295E-04 (0.3)	5.095E-04 (0.6)	6.719E-04 (0.5)	3.192E-03(0.08)	7.202E-04(0.17)	6.693E-04(0.17)	8.537E-04(0.15)
4.95	4.035E-05 (0.7)	1.065E-04 (1.3)	2.444E-04 (0.3)	6.201E-04 (0.3)	5.049E-04 (0.6)	6.595E-04 (0.5)	3.449E-03(0.08)	7.273E-04(0.17)	6.711E-04(0.17)	8.551E-04(0.15)
5.00	3.728E-05 (0.7)	9.903E-05 (1.3)	2.418E-04 (0.3)	6.077E-04 (0.3)	4.956E-04 (0.6)	6.535E-04 (0.5)	3.745E-03(0.07)	7.329E-04(0.17)	6.725E-04(0.17)	8.551E-04(0.15)
5.05	3.462E-05 (0.8)	9.627E-05 (1.4)	2.369E-04 (0.3)	5.934E-04 (0.3)	4.872E-04 (0.6)	6.375E-04 (0.5)	4.082E-03(0.07)	7.432E-04(0.16)	6.736E-04(0.17)	8.518E-04(0.15)
5.10	3.116E-05 (0.8)	9.387E-05 (1.4)	2.342E-04 (0.3)	5.886E-04 (0.3)	4.813E-04 (0.6)	6.436E-04 (0.5)	4.473E-03(0.07)	7.501E-04(0.16)	6.765E-04(0.17)	8.504E-04(0.15)
5.15	2.776E-05 (0.9)	8.980E-05 (1.4)	2.306E-04 (0.3)	5.751E-04 (0.3)	4.813E-04 (0.6)	6.332E-04 (0.5)	4.920E-03(0.06)	7.567E-04(0.16)	6.783E-04(0.17)	8.550E-04(0.15)
5.20	2.452E-05 (0.9)	8.373E-05 (1.5)	2.274E-04 (0.3)	5.658E-04 (0.3)	4.646E-04 (0.6)	6.216E-04 (0.5)	5.452E-03(0.06)	7.643E-04(0.16)	6.780E-04(0.17)	8.524E-04(0.15)
5.25	2.087E-05 (1.0)	8.046E-05 (1.5)	2.219E-04 (0.3)	5.564E-04 (0.3)	4.622E-04 (0.6)	6.094E-04 (0.5)	6.070E-03(0.06)	7.756E-04(0.16)	6.818E-04(0.17)	8.513E-04(0.15)
5.30	1.606E-05 (1.1)	7.367E-05 (1.6)	2.194E-04 (0.3)	5.461E-04 (0.3)	4.519E-04 (0.6)	6.075E-04 (0.5)	6.819E-03(0.05)	7.828E-04(0.16)	6.853E-04(0.17)	8.486E-04(0.15)
5.35	9.496E-06 (1.3)	6.979E-05 (1.6)	2.157E-04 (0.3)	5.375E-04 (0.3)	4.482E-04 (0.6)	5.876E-04 (0.5)	7.719E-03(0.05)	7.903E-04(0.16)	6.844E-04(0.17)	8.508E-04(0.15)
5.40	3.426E-06 (2.8)	6.201E-05 (1.7)	2.125E-04 (0.3)	5.309E-04 (0.3)	4.346E-04 (0.6)	5.863E-04 (0.5)	8.817E-03(0.05)	7.987E-04(0.16)	6.872E-04(0.17)	8.504E-04(0.15)
5.45	-	5.927E-05 (1.7)	2.098E-04 (0.3)	2.070E-04 (0.3)	4.318E-04 (0.6)	5.797E-04 (0.5)	1.019E-02(0.04)	8.080E-04(0.16)	6.896E-04(0.17)	8.520E-04(0.15)
5.50	-	5.366E-05 (1.8)	2.055E-04 (0.4)	2.043E-04 (0.4)	4.248E-04 (0.6)	5.737E-04 (0.5)	1.192E-02(0.04)	8.183E-04(0.16)	6.929E-04(0.17)	8.495E-04(0.15)
5.55	-	5.045E-05 (1.9)	2.032E-04 (0.4)	2.024E-04 (0.4)	4.158E-04 (0.6)	5.636E-04 (0.6)	1.416E-02(0.04)	8.279E-04(0.16)	6.941E-04(0.17)	8.496E-04(0.15)
5.60	-	4.347E-05 (2.0)	2.000E-04 (0.4)	1.973E-04 (0.4)	4.122E-04 (0.6)	5.568E-04 (0.6)	1.711E-02(0.03)	8.346E-04(0.15)	6.963E-04(0.17)	8.522E-04(0.15)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
5.65	-	3.695E-05 (2.2)	1.966E-04 (0.4)	1.949E-04 (0.4)	4.040E-04 (0.7)	5.482E-04 (0.6)	2.099E-02(0.03)	8.425E-04(0.15)	6.965E-04(0.17)	8.515E-04(0.15)
5.70	-	2.905E-05 (2.5)	1.926E-04 (0.4)	1.918E-04 (0.4)	3.985E-04 (0.7)	5.445E-04 (0.6)	2.621E-02(0.03)	8.541E-04(0.15)	7.009E-04(0.17)	8.494E-04(0.15)
5.75	-	2.208E-05 (2.9)	1.906E-04 (0.4)	1.881E-04 (0.4)	3.893E-04 (0.7)	5.345E-04 (0.6)	3.373E-02(0.02)	8.664E-04(0.15)	7.023E-04(0.17)	8.508E-04(0.15)
5.80	-	7.325E-06 (5.0)	1.873E-04 (0.4)	1.869E-04 (0.4)	3.878E-04 (0.7)	5.244E-04 (0.6)	4.510E-02(0.02)	8.747E-04(0.15)	7.026E-04(0.17)	8.513E-04(0.15)
5.85	-	5.560E-07 (18.1)	1.849E-04 (0.4)	1.824E-04 (0.4)	3.825E-04 (0.7)	5.236E-04 (0.6)	5.885E-02(0.02)	8.846E-04(0.15)	7.053E-04(0.17)	8.525E-04(0.15)
5.90	-	-	1.814E-04 (0.4)	4.489E-04 (0.3)	1.797E-04 (0.4)	5.119E-04 (0.6)	6.699E-02(0.02)	8.952E-04(0.15)	7.077E-04(0.17)	8.556E-04(0.15)
5.95	-	-	1.773E-04 (0.4)	4.393E-04 (0.4)	1.755E-04 (0.4)	5.069E-04 (0.6)	6.207E-02(0.02)	9.036E-04(0.15)	7.103E-04(0.17)	8.552E-04(0.15)
6.00	-	-	1.730E-04 (0.4)	4.346E-04 (0.4)	1.714E-04 (0.4)	5.021E-04 (0.6)	4.695E-02(0.02)	9.183E-04(0.15)	7.136E-04(0.17)	8.536E-04(0.15)
6.05	-	-	1.716E-04 (0.4)	4.274E-04 (0.4)	1.700E-04 (0.4)	4.959E-04 (0.6)	3.218E-02(0.02)	9.277E-04(0.15)	7.163E-04(0.17)	8.546E-04(0.15)
6.10	-	-	1.687E-04 (0.4)	4.202E-04 (0.4)	1.685E-04 (0.4)	4.889E-04 (0.6)	2.549E-02(0.03)	9.392E-04(0.15)	7.198E-04(0.17)	8.584E-04(0.15)
6.15	-	-	1.665E-04 (0.4)	4.135E-04 (0.4)	1.653E-04 (0.4)	4.790E-04 (0.6)	2.740E-02(0.03)	9.505E-04(0.15)	7.225E-04(0.17)	8.572E-04(0.15)
6.20	-	-	1.641E-04 (0.4)	4.062E-04 (0.4)	1.621E-04 (0.4)	4.778E-04 (0.6)	3.588E-02(0.02)	9.637E-04(0.14)	7.230E-04(0.17)	8.555E-04(0.15)
6.25	-	-	1.612E-04 (0.4)	4.005E-04 (0.4)	1.611E-04 (0.4)	4.710E-04 (0.6)	6.053E-02(0.02)	9.758E-04(0.14)	7.283E-04(0.17)	8.581E-04(0.15)
6.30	-	-	1.600E-04 (0.4)	3.938E-04 (0.4)	1.579E-04 (0.4)	4.668E-04 (0.6)	1.084E-01(0.01)	9.895E-04(0.14)	7.315E-04(0.17)	8.599E-04(0.15)
6.35	-	-	1.554E-04 (0.4)	3.846E-04 (0.4)	1.538E-04 (0.4)	4.556E-04 (0.6)	1.241E-01(0.01)	1.002E-03(0.14)	7.342E-04(0.17)	8.593E-04(0.15)
6.40	-	-	1.535E-04 (0.4)	3.825E-04 (0.4)	1.525E-04 (0.4)	4.491E-04 (0.6)	6.987E-02(0.02)	1.012E-03(0.14)	7.354E-04(0.16)	8.613E-04(0.15)
6.45	-	-	1.503E-04 (0.4)	3.737E-04 (0.4)	1.493E-04 (0.4)	4.441E-04 (0.6)	1.718E-02(0.03)	1.028E-03(0.14)	7.378E-04(0.16)	8.648E-04(0.15)
6.50	-	-	1.486E-04 (0.4)	3.677E-04 (0.4)	1.466E-04 (0.4)	4.440E-04 (0.6)	1.661E-03(0.11)	1.041E-03(0.14)	7.401E-04(0.16)	8.641E-04(0.15)
6.55	-	-	1.451E-04 (0.4)	3.604E-04 (0.4)	1.445E-04 (0.4)	4.360E-04 (0.6)	5.484E-05(0.60)	1.051E-03(0.14)	7.472E-04(0.16)	8.655E-04(0.15)
6.60	-	-	1.444E-04 (0.4)	3.576E-04 (0.4)	1.437E-04 (0.4)	4.320E-04 (0.6)	5.060E-07(6.29)	1.067E-03(0.14)	7.491E-04(0.16)	8.641E-04(0.15)
6.65	-	-	1.419E-04 (0.4)	3.507E-04 (0.4)	1.400E-04 (0.4)	4.257E-04 (0.6)	-	1.081E-03(0.14)	7.502E-04(0.16)	8.651E-04(0.15)
6.70	-	-	1.384E-04 (0.4)	3.460E-04 (0.4)	1.374E-04 (0.4)	4.233E-04 (0.6)	-	1.097E-03(0.14)	7.569E-04(0.16)	8.670E-04(0.15)
6.75	-	-	1.363E-04 (0.4)	3.410E-04 (0.4)	1.353E-04 (0.4)	4.156E-04 (0.6)	-	1.112E-03(0.13)	7.593E-04(0.16)	8.707E-04(0.15)
6.80	-	-	1.344E-04 (0.4)	3.361E-04 (0.4)	1.339E-04 (0.4)	4.137E-04 (0.6)	-	1.128E-03(0.13)	7.640E-04(0.16)	8.690E-04(0.15)
6.85	-	-	1.325E-04 (0.4)	3.291E-04 (0.4)	1.312E-04 (0.4)	4.027E-04 (0.7)	-	1.139E-03(0.13)	7.649E-04(0.16)	8.710E-04(0.15)
6.90	-	-	1.302E-04 (0.4)	3.236E-04 (0.4)	1.281E-04 (0.4)	4.023E-04 (0.7)	-	1.157E-03(0.13)	7.673E-04(0.16)	8.732E-04(0.15)
6.95	-	-	1.273E-04 (0.4)	3.200E-04 (0.4)	1.266E-04 (0.4)	3.948E-04 (0.7)	-	1.175E-03(0.13)	7.726E-04(0.16)	8.717E-04(0.15)
7.00	-	-	1.255E-04 (0.4)	3.135E-04 (0.4)	1.247E-04 (0.4)	3.913E-04 (0.7)	-	1.194E-03(0.13)	7.764E-04(0.16)	8.750E-04(0.15)
7.05	-	-	1.237E-04 (0.4)	3.084E-04 (0.4)	1.223E-04 (0.4)	3.893E-04 (0.7)	-	1.205E-03(0.13)	7.801E-04(0.16)	8.773E-04(0.15)
7.10	-	-	1.212E-04 (0.5)	3.022E-04 (0.4)	1.205E-04 (0.5)	3.810E-04 (0.7)	-	1.230E-03(0.13)	7.833E-04(0.16)	8.777E-04(0.15)
7.15	-	-	1.200E-04 (0.5)	2.989E-04 (0.4)	1.193E-04 (0.5)	3.797E-04 (0.7)	-	1.247E-03(0.13)	7.863E-04(0.16)	8.785E-04(0.15)
7.20	-	-	1.185E-04 (0.5)	2.947E-04 (0.4)	1.164E-04 (0.5)	3.760E-04 (0.7)	-	1.263E-03(0.13)	7.928E-04(0.16)	8.808E-04(0.15)
7.25	-	-	1.146E-04 (0.5)	2.884E-04 (0.4)	1.142E-04 (0.5)	3.723E-04 (0.7)	-	1.281E-03(0.12)	7.955E-04(0.16)	8.828E-04(0.15)
7.30	-	-	1.130E-04 (0.5)	2.849E-04 (0.4)	1.117E-04 (0.5)	3.667E-04 (0.7)	-	1.303E-03(0.12)	8.013E-04(0.16)	8.839E-04(0.15)
7.35	-	-	1.113E-04 (0.5)	2.804E-04 (0.4)	1.109E-04 (0.5)	3.620E-04 (0.7)	-	1.322E-03(0.12)	8.055E-04(0.16)	8.877E-04(0.15)
7.40	-	-	1.097E-04 (0.5)	2.762E-04 (0.4)	1.087E-04 (0.5)	3.570E-04 (0.7)	-	1.344E-03(0.12)	8.089E-04(0.16)	8.876E-04(0.15)
7.45	-	-	1.072E-04 (0.5)	2.692E-04 (0.5)	1.059E-04 (0.5)	3.487E-04 (0.7)	-	1.365E-03(0.12)	8.118E-04(0.16)	8.908E-04(0.15)
7.50	-	-	1.053E-04 (0.5)	2.652E-04 (0.5)	1.041E-04 (0.5)	3.549E-04 (0.7)	-	1.390E-03(0.12)	8.174E-04(0.16)	8.937E-04(0.15)
7.55	-	-	1.034E-04 (0.5)	2.615E-04 (0.5)	1.022E-04 (0.5)	3.421E-04 (0.7)	-	1.408E-03(0.12)	8.218E-04(0.16)	8.951E-04(0.15)
7.60	-	-	1.016E-04 (0.5)	2.564E-04 (0.5)	1.008E-04 (0.5)	3.434E-04 (0.7)	-	1.434E-03(0.12)	8.272E-04(0.16)	8.975E-04(0.15)
7.65	-	-	1.002E-04 (0.5)	2.524E-04 (0.5)	9.978E-05 (0.5)	3.360E-04 (0.7)	-	1.454E-03(0.12)	8.299E-04(0.16)	8.974E-04(0.15)
7.70	-	-	9.787E-05 (0.5)	2.497E-04 (0.5)	9.748E-05 (0.5)	3.352E-04 (0.7)	-	1.482E-03(0.12)	8.345E-04(0.15)	9.004E-04(0.15)
7.75	-	-	9.776E-05 (0.5)	2.453E-04 (0.5)	9.619E-05 (0.5)	3.316E-04 (0.7)	-	1.505E-03(0.12)	8.408E-04(0.15)	9.043E-04(0.15)
7.80	-	-	9.484E-05 (0.5)	2.398E-04 (0.5)	9.324E-05 (0.5)	3.239E-04 (0.7)	-	1.530E-03(0.11)	8.450E-04(0.15)	9.052E-04(0.15)
7.85	-	-	9.259E-05 (0.5)	2.354E-04 (0.5)	9.228E-05 (0.5)	3.211E-04 (0.7)	-	1.556E-03(0.11)	8.497E-04(0.15)	9.091E-04(0.15)
7.90	-	-	9.041E-05 (0.5)	2.309E-04 (0.5)	8.993E-05 (0.5)	3.188E-04 (0.7)	-	1.584E-03(0.11)	8.561E-04(0.15)	9.102E-04(0.15)
7.95	-	-	8.941E-05 (0.5)	2.286E-04 (0.5)	8.808E-05 (0.5)	3.196E-04 (0.7)	-	1.614E-03(0.11)	8.600E-04(0.15)	9.140E-04(0.15)
8.00	-	-	8.724E-05 (0.5)	2.245E-04 (0.5)	8.691E-05 (0.5)	3.110E-04 (0.7)	-	1.639E-03(0.11)	8.653E-04(0.15)	9.146E-04(0.15)
8.05	-	-	8.629E-05 (0.5)	2.204E-04 (0.5)	8.492E-05 (0.5)	3.077E-04 (0.8)	-	1.672E-03(0.11)	8.687E-04(0.15)	9.159E-04(0.15)
8.10	-	-	8.356E-05 (0.5)	2.154E-04 (0.5)	8.238E-05 (0.5)	3.046E-04 (0.8)	-	1.704E-03(0.11)	8.732E-04(0.15)	9.199E-04(0.15)
8.15	-	-	8.231E-05 (0.5)	2.130E-04 (0.5)	8.182E-05 (0.5)	3.018E-04 (0.8)	-	1.733E-03(0.11)	8.783E-04(0.15)	9.244E-04(0.15)
8.20	-	-	8.031E-05 (0.5)	2.099E-04 (0.5)	8.008E-05 (0.5)	2.990E-04 (0.8)	-	1.766E-03(0.11)	8.845E-04(0.15)	9.249E-04(0.15)
8.25	-	-	7.969E-05 (0.5)	2.037E-04 (0.5)	7.862E-05 (0.5)	2.902E-04 (0.8)	-	1.801E-03(0.11)	8.901E-04(0.15)	9.258E-04(0.15)
8.30	-	-	7.723E-05 (0.6)	2.003E-04 (0.5)	7.629E-05 (0.6)	2.966E-04 (0.8)	-	1.829E-03(0.10)	8.963E-04(0.15)	9.334E-04(0.15)
8.35	-	-	7.619E-05 (0.6)	1.976E-04 (0.5)	7.524E-05 (0.6)	2.924E-04 (0.8)	-	1.870E-03(0.10)	9.028E-04(0.15)	9.333E-04(0.15)
8.40	-	-	7.396E-05 (0.6)	1.952E-04 (0.5)	7.304E-05 (0.6)	2.852E-04 (0.8)	-	1.903E-03(0.10)	9.075E-04(0.15)	9.335E-04(0.15)
8.45	-	-	7.217E-05 (0.6)	1.888E-04 (0.5)	7.181E-05 (0.6)	2.838E-04 (0.8)	-	1.940E-03(0.10)	9.131E-04(0.15)	9.391E-04(0.15)
8.50	-	-	7.075E-05 (0.6)	1.876E-04 (0.5)	6.916E-05 (0.6)	2.798E-04 (0.8)	-	1.985E-03(0.10)	9.182E-04(0.15)	9.402E-04(0.15)
8.55	-	-	6.832E-05 (0.6)	1.816E-04 (0.6)	6.778E-05 (0.6)	2.748E-04 (0.8)	-	2.024E-03(0.10)	9.222E-04(0.15)	9.436E-04(0.15)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
8.60	-	-	6.742E-05 (0.6)	1.766E-04 (0.6)	6.644E-05 (0.6)	2.771E-04 (0.8)	-	2.067E-03(0.10)	9.290E-04(0.15)	9.468E-04(0.15)
8.65	-	-	6.536E-05 (0.6)	1.774E-04 (0.6)	6.494E-05 (0.6)	2.719E-04 (0.8)	-	2.108E-03(0.10)	9.357E-04(0.15)	9.470E-04(0.15)
8.70	-	-	6.399E-05 (0.6)	1.726E-04 (0.6)	6.303E-05 (0.6)	2.699E-04 (0.8)	-	2.155E-03(0.10)	9.413E-04(0.15)	9.536E-04(0.14)
8.75	-	-	6.220E-05 (0.6)	1.684E-04 (0.6)	6.154E-05 (0.6)	2.657E-04 (0.8)	-	2.203E-03(0.10)	9.480E-04(0.15)	9.534E-04(0.14)
8.80	-	-	6.103E-05 (0.6)	1.638E-04 (0.6)	6.019E-05 (0.6)	2.662E-04 (0.8)	-	2.247E-03(0.09)	9.539E-04(0.14)	9.574E-04(0.14)
8.85	-	-	5.904E-05 (0.6)	1.613E-04 (0.6)	5.830E-05 (0.6)	2.574E-04 (0.8)	-	2.300E-03(0.09)	9.580E-04(0.14)	9.640E-04(0.14)
8.90	-	-	5.760E-05 (0.6)	1.557E-04 (0.6)	5.682E-05 (0.6)	2.602E-04 (0.8)	-	2.344E-03(0.09)	9.665E-04(0.14)	9.624E-04(0.14)
8.95	-	-	5.613E-05 (0.7)	1.515E-04 (0.6)	5.557E-05 (0.7)	2.544E-04 (0.8)	-	2.401E-03(0.09)	9.717E-04(0.14)	9.677E-04(0.14)
9.00	-	-	5.506E-05 (0.7)	1.494E-04 (0.6)	5.386E-05 (0.7)	2.513E-04 (0.8)	-	2.454E-03(0.09)	9.790E-04(0.14)	9.696E-04(0.14)
9.05	-	-	5.307E-05 (0.7)	1.451E-04 (0.6)	5.215E-05 (0.7)	2.540E-04 (0.8)	-	2.515E-03(0.09)	9.853E-04(0.14)	9.747E-04(0.14)
9.10	-	-	5.077E-05 (0.7)	1.426E-04 (0.6)	4.921E-05 (0.7)	2.452E-04 (0.8)	-	2.569E-03(0.09)	9.909E-04(0.14)	9.783E-04(0.14)
9.15	-	-	4.858E-05 (0.7)	1.374E-04 (0.6)	4.845E-05 (0.7)	2.442E-04 (0.8)	-	2.630E-03(0.09)	9.941E-04(0.14)	9.814E-04(0.14)
9.20	-	-	4.760E-05 (0.7)	1.339E-04 (0.6)	4.692E-05 (0.7)	2.404E-04 (0.9)	-	2.693E-03(0.09)	1.007E-03(0.14)	9.843E-04(0.14)
9.25	-	-	4.616E-05 (0.7)	1.300E-04 (0.7)	4.565E-05 (0.7)	2.374E-04 (0.9)	-	2.754E-03(0.09)	1.016E-03(0.14)	9.858E-04(0.14)
9.30	-	-	4.535E-05 (0.7)	1.261E-04 (0.7)	4.432E-05 (0.7)	2.382E-04 (0.9)	-	2.823E-03(0.08)	1.017E-03(0.14)	9.942E-04(0.14)
9.35	-	-	4.251E-05 (0.8)	1.227E-04 (0.7)	4.152E-05 (0.8)	2.307E-04 (0.9)	-	2.889E-03(0.08)	1.027E-03(0.14)	9.946E-04(0.14)
9.40	-	-	4.121E-05 (0.8)	1.194E-04 (0.7)	4.035E-05 (0.8)	2.333E-04 (0.9)	-	2.956E-03(0.08)	1.032E-03(0.14)	9.983E-04(0.14)
9.45	-	-	3.923E-05 (0.8)	1.160E-04 (0.7)	3.867E-05 (0.8)	2.316E-04 (0.9)	-	3.037E-03(0.08)	1.043E-03(0.14)	1.003E-03(0.14)
9.50	-	-	3.800E-05 (0.8)	1.107E-04 (0.7)	3.702E-05 (0.8)	2.317E-04 (0.9)	-	3.103E-03(0.08)	1.048E-03(0.14)	1.007E-03(0.14)
9.55	-	-	3.584E-05 (0.8)	1.077E-04 (0.7)	3.478E-05 (0.8)	2.280E-04 (0.9)	-	3.175E-03(0.08)	1.057E-03(0.14)	1.009E-03(0.14)
9.60	-	-	3.420E-05 (0.8)	1.038E-04 (0.7)	3.367E-05 (0.8)	2.240E-04 (0.9)	-	3.253E-03(0.08)	1.063E-03(0.14)	1.011E-03(0.14)
9.65	-	-	3.330E-05 (0.9)	9.974E-05 (0.8)	3.239E-05 (0.9)	2.173E-04 (0.9)	-	3.333E-03(0.08)	1.073E-03(0.14)	1.017E-03(0.14)
9.70	-	-	3.134E-05 (0.9)	9.676E-05 (0.8)	3.054E-05 (0.9)	2.206E-04 (0.9)	-	3.413E-03(0.08)	1.082E-03(0.14)	1.020E-03(0.14)
9.75	-	-	2.937E-05 (0.9)	9.132E-05 (0.8)	2.834E-05 (0.9)	2.167E-04 (0.9)	-	3.494E-03(0.08)	1.086E-03(0.14)	1.027E-03(0.14)
9.80	-	-	2.775E-05 (0.9)	8.859E-05 (0.8)	2.685E-05 (0.9)	2.126E-04 (0.9)	-	3.584E-03(0.07)	1.097E-03(0.14)	1.030E-03(0.14)
9.85	-	-	2.591E-05 (1.0)	8.503E-05 (0.8)	2.503E-05 (1.0)	2.110E-04 (0.9)	-	3.673E-03(0.07)	1.104E-03(0.13)	1.030E-03(0.14)
9.90	-	-	2.428E-05 (1.0)	8.116E-05 (0.8)	2.338E-05 (1.0)	2.055E-04 (0.9)	-	3.762E-03(0.07)	1.112E-03(0.13)	1.037E-03(0.14)
9.95	-	-	2.228E-05 (1.1)	7.792E-05 (0.9)	2.147E-05 (1.1)	2.056E-04 (0.9)	-	3.855E-03(0.07)	1.121E-03(0.13)	1.040E-03(0.14)
10.00	-	-	2.053E-05 (1.1)	7.306E-05 (0.9)	1.933E-05 (1.1)	2.044E-04 (0.9)	-	3.956E-03(0.07)	1.131E-03(0.13)	1.042E-03(0.14)
10.05	-	-	1.888E-05 (1.2)	6.999E-05 (0.9)	1.829E-05 (1.2)	2.095E-04 (0.9)	-	4.073E-03(0.07)	1.140E-03(0.13)	1.051E-03(0.14)
10.10	-	-	1.713E-05 (1.2)	6.559E-05 (0.9)	1.616E-05 (1.2)	2.022E-04 (0.9)	-	4.185E-03(0.07)	1.145E-03(0.13)	1.051E-03(0.14)
10.15	-	-	1.530E-05 (1.3)	6.182E-05 (1.0)	1.464E-05 (1.3)	1.994E-04 (0.9)	-	4.305E-03(0.07)	1.154E-03(0.13)	1.058E-03(0.14)
10.20	-	-	1.369E-05 (1.4)	5.750E-05 (1.0)	1.264E-05 (1.4)	1.971E-04 (0.9)	-	4.439E-03(0.07)	1.164E-03(0.13)	1.065E-03(0.14)
10.25	-	-	1.169E-05 (1.5)	5.370E-05 (1.0)	1.067E-05 (1.5)	1.976E-04 (0.9)	-	4.585E-03(0.07)	1.172E-03(0.13)	1.070E-03(0.14)
10.30	-	-	9.696E-06 (1.7)	4.949E-05 (1.1)	9.267E-06 (1.7)	1.910E-04 (1.0)	-	4.737E-03(0.06)	1.185E-03(0.13)	1.071E-03(0.14)
10.35	-	-	8.342E-06 (1.8)	4.431E-05 (1.2)	6.940E-06 (1.8)	1.936E-04 (1.0)	-	4.907E-03(0.06)	1.192E-03(0.13)	1.079E-03(0.14)
10.40	-	-	5.931E-06 (2.2)	4.038E-05 (1.2)	4.699E-06 (2.2)	1.872E-04 (1.0)	-	5.091E-03(0.06)	1.202E-03(0.13)	1.082E-03(0.14)
10.45	-	-	3.535E-06 (2.9)	3.659E-05 (1.3)	2.183E-06 (2.9)	1.898E-04 (1.0)	-	5.287E-03(0.06)	1.211E-03(0.13)	1.088E-03(0.14)
10.50	-	-	6.482E-07 (7.2)	3.175E-05 (1.4)	6.482E-07 (7.2)	1.891E-04 (1.0)	-	5.496E-03(0.06)	1.222E-03(0.13)	1.091E-03(0.14)
10.55	-	-	-	2.752E-05 (1.5)	1.111E-04 (1.3)	1.856E-04 (1.0)	-	5.724E-03(0.06)	1.232E-03(0.13)	1.097E-03(0.14)
10.60	-	-	-	2.340E-05 (1.6)	1.067E-04 (1.3)	1.846E-04 (1.0)	-	5.966E-03(0.06)	1.239E-03(0.13)	1.099E-03(0.13)
10.65	-	-	-	1.903E-05 (1.8)	1.095E-04 (1.3)	1.793E-04 (1.0)	-	6.240E-03(0.06)	1.251E-03(0.13)	1.106E-03(0.13)
10.70	-	-	-	1.342E-05 (2.2)	1.064E-04 (1.3)	1.779E-04 (1.0)	-	6.532E-03(0.06)	1.262E-03(0.13)	1.111E-03(0.13)
10.75	-	-	-	8.542E-06 (2.9)	1.032E-04 (1.3)	1.801E-04 (1.0)	-	6.845E-03(0.05)	1.274E-03(0.13)	1.116E-03(0.13)
10.80	-	-	-	1.468E-06 (7.3)	1.032E-04 (1.3)	1.750E-04 (1.0)	-	7.187E-03(0.05)	1.284E-03(0.12)	1.120E-03(0.13)
10.85	-	-	-	-	1.041E-04 (1.3)	1.722E-04 (1.0)	-	7.522E-03(0.05)	1.296E-03(0.12)	1.125E-03(0.13)
10.90	-	-	-	-	9.962E-05 (1.3)	1.744E-04 (1.0)	-	7.986E-03(0.05)	1.306E-03(0.12)	1.134E-03(0.13)
10.95	-	-	-	-	1.002E-04 (1.3)	1.726E-04 (1.0)	-	8.428E-03(0.05)	1.317E-03(0.12)	1.138E-03(0.13)
11.00	-	-	-	-	9.850E-05 (1.3)	1.730E-04 (1.0)	-	8.950E-03(0.05)	1.327E-03(0.12)	1.142E-03(0.13)
11.05	-	-	-	-	9.739E-05 (1.3)	1.686E-04 (1.0)	-	9.494E-03(0.05)	1.341E-03(0.12)	1.147E-03(0.13)
11.10	-	-	-	-	9.377E-05 (1.4)	1.664E-04 (1.0)	-	1.010E-02(0.04)	1.350E-03(0.12)	1.152E-03(0.13)
11.15	-	-	-	-	9.424E-05 (1.4)	1.682E-04 (1.0)	-	1.079E-02(0.04)	1.363E-03(0.12)	1.157E-03(0.13)
11.20	-	-	-	-	9.413E-05 (1.4)	1.628E-04 (1.0)	-	1.156E-02(0.04)	1.377E-03(0.12)	1.164E-03(0.13)
11.25	-	-	-	-	9.202E-05 (1.4)	1.612E-04 (1.0)	-	1.242E-02(0.04)	1.389E-03(0.12)	1.173E-03(0.13)
11.30	-	-	-	-	8.913E-05 (1.4)	1.609E-04 (1.0)	-	1.340E-02(0.04)	1.402E-03(0.12)	1.176E-03(0.13)
11.35	-	-	-	-	8.822E-05 (1.4)	1.556E-04 (1.1)	-	1.450E-02(0.04)	1.414E-03(0.12)	1.185E-03(0.13)
11.40	-	-	-	-	8.701E-05 (1.4)	1.580E-04 (1.1)	-	1.578E-02(0.04)	1.427E-03(0.12)	1.192E-03(0.13)
11.45	-	-	-	-	8.783E-05 (1.4)	1.558E-04 (1.1)	-	1.724E-02(0.03)	1.440E-03(0.12)	1.195E-03(0.13)
11.50	-	-	-	-	8.600E-05 (1.4)	1.513E-04 (1.1)	-	1.893E-02(0.03)	1.457E-03(0.12)	1.202E-03(0.13)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
11.55	-	-	-	-	8.709E-05 (1.4)	1.534E-04 (1.1)	-	2.089E-02(0.03)	1.469E-03(0.12)	1.210E-03(0.13)
11.60	-	-	-	-	8.265E-05 (1.5)	1.475E-04 (1.1)	-	2.321E-02(0.03)	1.478E-03(0.12)	1.215E-03(0.13)
11.65	-	-	-	-	8.220E-05 (1.5)	1.503E-04 (1.1)	-	2.596E-02(0.03)	1.500E-03(0.12)	1.220E-03(0.13)
11.70	-	-	-	-	8.237E-05 (1.5)	1.472E-04 (1.1)	-	2.923E-02(0.03)	1.512E-03(0.12)	1.228E-03(0.13)
11.75	-	-	-	-	7.955E-05 (1.5)	1.470E-04 (1.1)	-	3.321E-02(0.02)	1.523E-03(0.11)	1.234E-03(0.13)
11.80	-	-	-	-	7.876E-05 (1.5)	1.441E-04 (1.1)	-	3.811E-02(0.02)	1.539E-03(0.11)	1.236E-03(0.13)
11.85	-	-	-	-	7.763E-05 (1.5)	1.448E-04 (1.1)	-	4.418E-02(0.02)	1.554E-03(0.11)	1.247E-03(0.13)
11.90	-	-	-	-	7.700E-05 (1.5)	1.426E-04 (1.1)	-	5.187E-02(0.02)	1.572E-03(0.11)	1.253E-03(0.13)
11.95	-	-	-	-	7.397E-05 (1.5)	1.421E-04 (1.1)	-	6.176E-02(0.02)	1.590E-03(0.11)	1.262E-03(0.13)
12.00	-	-	-	-	7.321E-05 (1.6)	1.408E-04 (1.1)	-	7.461E-02(0.02)	1.601E-03(0.11)	1.267E-03(0.13)
12.05	-	-	-	-	7.173E-05 (1.6)	1.383E-04 (1.1)	-	9.144E-02(0.01)	1.621E-03(0.11)	1.275E-03(0.13)
12.10	-	-	-	-	6.991E-05 (1.6)	1.342E-04 (1.1)	-	1.144E-01(0.01)	1.637E-03(0.11)	1.280E-03(0.13)
12.15	-	-	-	-	7.086E-05 (1.6)	1.362E-04 (1.1)	-	1.477E-01(0.01)	1.653E-03(0.11)	1.290E-03(0.12)
12.20	-	-	-	-	6.771E-05 (1.6)	1.367E-04 (1.1)	-	1.879E-01(0.01)	1.669E-03(0.11)	1.296E-03(0.12)
12.25	-	-	-	-	6.690E-05 (1.6)	1.320E-04 (1.2)	-	2.125E-01(0.01)	1.688E-03(0.11)	1.301E-03(0.12)
12.30	-	-	-	-	6.697E-05 (1.6)	1.303E-04 (1.2)	-	1.962E-01(0.01)	1.706E-03(0.11)	1.311E-03(0.12)
12.35	-	-	-	-	6.475E-05 (1.6)	1.308E-04 (1.2)	-	1.487E-01(0.01)	1.726E-03(0.11)	1.317E-03(0.12)
12.40	-	-	-	-	6.488E-05 (1.6)	1.287E-04 (1.2)	-	1.044E-01(0.01)	1.739E-03(0.11)	1.328E-03(0.12)
12.45	-	-	-	-	6.326E-05 (1.7)	1.283E-04 (1.2)	-	7.482E-02(0.02)	1.763E-03(0.11)	1.333E-03(0.12)
12.50	-	-	-	-	6.177E-05 (1.7)	1.270E-04 (1.2)	-	5.034E-02(0.02)	1.780E-03(0.11)	1.343E-03(0.12)
12.55	-	-	-	-	6.227E-05 (1.7)	1.263E-04 (1.2)	-	3.039E-02(0.03)	1.802E-03(0.11)	1.356E-03(0.12)
12.60	-	-	-	-	5.839E-05 (1.7)	1.234E-04 (1.2)	-	2.085E-02(0.03)	1.822E-03(0.10)	1.358E-03(0.12)
12.65	-	-	-	-	5.797E-05 (1.8)	1.250E-04 (1.2)	-	2.032E-02(0.03)	1.838E-03(0.10)	1.367E-03(0.12)
12.70	-	-	-	-	5.839E-05 (1.7)	1.209E-04 (1.2)	-	2.709E-02(0.03)	1.867E-03(0.10)	1.374E-03(0.12)
12.75	-	-	-	-	5.639E-05 (1.8)	1.225E-04 (1.2)	-	4.308E-02(0.02)	1.886E-03(0.10)	1.382E-03(0.12)
12.80	-	-	-	-	5.408E-05 (1.8)	1.213E-04 (1.2)	-	5.364E-02(0.02)	1.902E-03(0.10)	1.390E-03(0.12)
12.85	-	-	-	-	5.325E-05 (1.8)	1.193E-04 (1.2)	-	3.807E-02(0.02)	1.927E-03(0.10)	1.398E-03(0.12)
12.90	-	-	-	-	5.303E-05 (1.8)	1.184E-04 (1.2)	-	1.338E-02(0.04)	1.949E-03(0.10)	1.409E-03(0.12)
12.95	-	-	-	-	4.964E-05 (1.9)	1.136E-04 (1.2)	-	2.131E-03(0.10)	1.972E-03(0.10)	1.418E-03(0.12)
13.00	-	-	-	-	4.954E-05 (1.9)	1.143E-04 (1.2)	-	1.396E-04(0.38)	1.994E-03(0.10)	1.427E-03(0.12)
13.05	-	-	-	-	4.685E-05 (1.9)	1.122E-04 (1.3)	-	3.408E-06(2.42)	2.024E-03(0.10)	1.437E-03(0.12)
13.10	-	-	-	-	4.623E-05 (2.0)	1.168E-04 (1.2)	-	2.400E-08(28.9)	2.046E-03(0.10)	1.448E-03(0.12)
13.15	-	-	-	-	4.476E-05 (2.0)	1.125E-04 (1.2)	-	-	2.068E-03(0.10)	1.457E-03(0.12)
13.20	-	-	-	-	4.285E-05 (2.0)	1.106E-04 (1.3)	-	-	2.093E-03(0.10)	1.464E-03(0.12)
13.25	-	-	-	-	4.188E-05 (2.1)	1.059E-04 (1.3)	-	-	2.121E-03(0.10)	1.471E-03(0.12)
13.30	-	-	-	-	3.895E-05 (2.1)	1.075E-04 (1.3)	-	-	2.148E-03(0.10)	1.481E-03(0.12)
13.35	-	-	-	-	3.961E-05 (2.1)	1.068E-04 (1.3)	-	-	2.173E-03(0.10)	1.490E-03(0.12)
13.40	-	-	-	-	3.755E-05 (2.2)	1.080E-04 (1.3)	-	-	2.204E-03(0.10)	1.504E-03(0.12)
13.45	-	-	-	-	3.566E-05 (2.2)	1.069E-04 (1.3)	-	-	2.231E-03(0.09)	1.510E-03(0.12)
13.50	-	-	-	-	3.323E-05 (2.3)	1.050E-04 (1.3)	-	-	2.262E-03(0.09)	1.521E-03(0.11)
13.55	-	-	-	-	3.316E-05 (2.3)	1.032E-04 (1.3)	-	-	2.289E-03(0.09)	1.533E-03(0.11)
13.60	-	-	-	-	3.033E-05 (2.4)	1.017E-04 (1.3)	-	-	2.319E-03(0.09)	1.544E-03(0.11)
13.65	-	-	-	-	2.988E-05 (2.4)	1.047E-04 (1.3)	-	-	2.357E-03(0.09)	1.556E-03(0.11)
13.70	-	-	-	-	2.737E-05 (2.5)	1.024E-04 (1.3)	-	-	2.387E-03(0.09)	1.565E-03(0.11)
13.75	-	-	-	-	2.644E-05 (2.6)	1.021E-04 (1.3)	-	-	2.417E-03(0.09)	1.574E-03(0.11)
13.80	-	-	-	-	2.391E-05 (2.7)	9.871E-05 (1.3)	-	-	2.452E-03(0.09)	1.589E-03(0.11)
13.85	-	-	-	-	2.254E-05 (2.8)	9.859E-05 (1.3)	-	-	2.489E-03(0.09)	1.593E-03(0.11)
13.90	-	-	-	-	2.134E-05 (2.9)	9.724E-05 (1.3)	-	-	2.518E-03(0.09)	1.609E-03(0.11)
13.95	-	-	-	-	2.064E-05 (2.9)	9.611E-05 (1.4)	-	-	2.558E-03(0.09)	1.619E-03(0.11)
14.00	-	-	-	-	1.712E-05 (3.2)	9.536E-05 (1.4)	-	-	2.591E-03(0.09)	1.633E-03(0.11)
14.05	-	-	-	-	1.628E-05 (3.3)	9.745E-05 (1.3)	-	-	2.627E-03(0.09)	1.642E-03(0.11)
14.10	-	-	-	-	1.351E-05 (3.6)	9.204E-05 (1.4)	-	-	2.667E-03(0.09)	1.653E-03(0.11)
14.15	-	-	-	-	1.114E-05 (4.0)	9.354E-05 (1.4)	-	-	2.710E-03(0.09)	1.668E-03(0.11)
14.20	-	-	-	-	9.379E-06 (4.4)	8.914E-05 (1.4)	-	-	2.748E-03(0.09)	1.681E-03(0.11)
14.25	-	-	-	-	6.867E-06 (5.1)	9.257E-05 (1.4)	-	-	2.789E-03(0.08)	1.691E-03(0.11)
14.30	-	-	-	-	1.567E-06 (11.)	9.151E-05 (1.4)	-	-	2.835E-03(0.08)	1.703E-03(0.11)
14.35	-	-	-	-	-	8.958E-05 (1.4)	-	-	2.880E-03(0.08)	1.716E-03(0.11)
14.40	-	-	-	-	-	8.671E-05 (1.4)	-	-	2.923E-03(0.08)	1.731E-03(0.11)
14.45	-	-	-	-	-	8.558E-05 (1.4)	-	-	2.972E-03(0.08)	1.741E-03(0.11)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
14.50	-	-	-	-	-	8.641E-05 (1.4)	-	-	3.016E-03(0.08)	1.759E-03(0.11)
14.55	-	-	-	-	-	8.614E-05 (1.4)	-	-	3.069E-03(0.08)	1.770E-03(0.11)
14.60	-	-	-	-	-	8.709E-05 (1.4)	-	-	3.114E-03(0.08)	1.783E-03(0.11)
14.65	-	-	-	-	-	8.411E-05 (1.4)	-	-	3.169E-03(0.08)	1.799E-03(0.11)
14.70	-	-	-	-	-	8.459E-05 (1.4)	-	-	3.221E-03(0.08)	1.811E-03(0.11)
14.75	-	-	-	-	-	8.042E-05 (1.5)	-	-	3.279E-03(0.08)	1.827E-03(0.10)
14.80	-	-	-	-	-	8.184E-05 (1.5)	-	-	3.333E-03(0.08)	1.841E-03(0.10)
14.85	-	-	-	-	-	7.846E-05 (1.5)	-	-	3.389E-03(0.08)	1.854E-03(0.10)
14.90	-	-	-	-	-	7.952E-05 (1.5)	-	-	3.453E-03(0.08)	1.867E-03(0.10)
14.95	-	-	-	-	-	7.769E-05 (1.5)	-	-	3.514E-03(0.08)	1.884E-03(0.10)
15.00	-	-	-	-	-	7.777E-05 (1.5)	-	-	3.576E-03(0.07)	1.897E-03(0.10)
15.05	-	-	-	-	-	7.776E-05 (1.5)	-	-	3.646E-03(0.07)	1.916E-03(0.10)
15.10	-	-	-	-	-	7.845E-05 (1.5)	-	-	3.714E-03(0.07)	1.929E-03(0.10)
15.15	-	-	-	-	-	7.517E-05 (1.5)	-	-	3.781E-03(0.07)	1.949E-03(0.10)
15.20	-	-	-	-	-	7.437E-05 (1.5)	-	-	3.858E-03(0.07)	1.961E-03(0.10)
15.25	-	-	-	-	-	7.455E-05 (1.5)	-	-	3.930E-03(0.07)	1.979E-03(0.10)
15.30	-	-	-	-	-	7.336E-05 (1.5)	-	-	4.009E-03(0.07)	1.996E-03(0.10)
15.35	-	-	-	-	-	7.094E-05 (1.6)	-	-	4.085E-03(0.07)	2.015E-03(0.10)
15.40	-	-	-	-	-	7.085E-05 (1.6)	-	-	4.173E-03(0.07)	2.032E-03(0.10)
15.45	-	-	-	-	-	7.095E-05 (1.6)	-	-	4.254E-03(0.07)	2.049E-03(0.10)
15.50	-	-	-	-	-	7.032E-05 (1.6)	-	-	4.345E-03(0.07)	2.067E-03(0.10)
15.55	-	-	-	-	-	6.927E-05 (1.6)	-	-	4.435E-03(0.07)	2.084E-03(0.10)
15.60	-	-	-	-	-	6.592E-05 (1.6)	-	-	4.527E-03(0.07)	2.096E-03(0.10)
15.65	-	-	-	-	-	6.789E-05 (1.6)	-	-	4.628E-03(0.07)	2.117E-03(0.10)
15.70	-	-	-	-	-	6.637E-05 (1.6)	-	-	4.731E-03(0.07)	2.138E-03(0.10)
15.75	-	-	-	-	-	6.569E-05 (1.6)	-	-	4.838E-03(0.06)	2.155E-03(0.10)
15.80	-	-	-	-	-	6.331E-05 (1.7)	-	-	4.945E-03(0.06)	2.171E-03(0.10)
15.85	-	-	-	-	-	6.451E-05 (1.6)	-	-	5.055E-03(0.06)	2.194E-03(0.10)
15.90	-	-	-	-	-	6.097E-05 (1.7)	-	-	5.168E-03(0.06)	2.216E-03(0.09)
15.95	-	-	-	-	-	6.097E-05 (1.7)	-	-	5.292E-03(0.06)	2.233E-03(0.09)
16.00	-	-	-	-	-	6.155E-05 (1.7)	-	-	5.415E-03(0.06)	2.254E-03(0.09)
16.05	-	-	-	-	-	5.813E-05 (1.7)	-	-	5.547E-03(0.06)	2.277E-03(0.09)
16.10	-	-	-	-	-	5.990E-05 (1.7)	-	-	5.686E-03(0.06)	2.296E-03(0.09)
16.15	-	-	-	-	-	5.873E-05 (1.7)	-	-	5.824E-03(0.06)	2.324E-03(0.09)
16.20	-	-	-	-	-	5.919E-05 (1.7)	-	-	5.974E-03(0.06)	2.345E-03(0.09)
16.25	-	-	-	-	-	5.621E-05 (1.8)	-	-	6.128E-03(0.06)	2.366E-03(0.09)
16.30	-	-	-	-	-	5.541E-05 (1.8)	-	-	6.288E-03(0.06)	2.388E-03(0.09)
16.35	-	-	-	-	-	5.585E-05 (1.8)	-	-	6.469E-03(0.06)	2.408E-03(0.09)
16.40	-	-	-	-	-	5.379E-05 (1.8)	-	-	6.642E-03(0.05)	2.437E-03(0.09)
16.45	-	-	-	-	-	5.311E-05 (1.8)	-	-	6.824E-03(0.05)	2.458E-03(0.09)
16.50	-	-	-	-	-	5.251E-05 (1.8)	-	-	7.037E-03(0.05)	2.485E-03(0.09)
16.55	-	-	-	-	-	5.138E-05 (1.9)	-	-	7.254E-03(0.05)	2.512E-03(0.09)
16.60	-	-	-	-	-	5.074E-05 (1.9)	-	-	7.475E-03(0.05)	2.532E-03(0.09)
16.65	-	-	-	-	-	4.956E-05 (1.9)	-	-	7.714E-03(0.05)	2.561E-03(0.09)
16.70	-	-	-	-	-	4.672E-05 (1.9)	-	-	7.961E-03(0.05)	2.586E-03(0.09)
16.75	-	-	-	-	-	4.863E-05 (1.9)	-	-	8.242E-03(0.05)	2.614E-03(0.09)
16.80	-	-	-	-	-	4.668E-05 (1.9)	-	-	8.533E-03(0.05)	2.640E-03(0.09)
16.85	-	-	-	-	-	4.690E-05 (1.9)	-	-	8.852E-03(0.05)	2.666E-03(0.09)
16.90	-	-	-	-	-	4.514E-05 (2.0)	-	-	9.186E-03(0.05)	2.694E-03(0.09)
16.95	-	-	-	-	-	4.308E-05 (2.0)	-	-	9.547E-03(0.05)	2.724E-03(0.09)
17.00	-	-	-	-	-	4.183E-05 (2.1)	-	-	9.940E-03(0.04)	2.752E-03(0.09)
17.05	-	-	-	-	-	4.016E-05 (2.1)	-	-	1.035E-02(0.04)	2.786E-03(0.08)
17.10	-	-	-	-	-	4.057E-05 (2.1)	-	-	1.081E-02(0.04)	2.812E-03(0.08)
17.15	-	-	-	-	-	3.816E-05 (2.2)	-	-	1.130E-02(0.04)	2.848E-03(0.08)
17.20	-	-	-	-	-	3.923E-05 (2.1)	-	-	1.184E-02(0.04)	2.878E-03(0.08)
17.25	-	-	-	-	-	3.810E-05 (2.2)	-	-	1.243E-02(0.04)	2.910E-03(0.08)
17.30	-	-	-	-	-	3.534E-05 (2.2)	-	-	1.306E-02(0.04)	2.942E-03(0.08)
17.35	-	-	-	-	-	3.487E-05 (2.2)	-	-	1.376E-02(0.04)	2.978E-03(0.08)
17.40	-	-	-	-	-	3.421E-05 (2.3)	-	-	1.452E-02(0.04)	3.011E-03(0.08)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
17.45	-	-	-	-	-	3.281E-05 (2.3)	-	-	1.537E-02(0.04)	3.041E-03(0.08)
17.50	-	-	-	-	-	3.214E-05 (2.3)	-	-	1.631E-02(0.04)	3.084E-03(0.08)
17.55	-	-	-	-	-	3.131E-05 (2.4)	-	-	1.735E-02(0.03)	3.118E-03(0.08)
17.60	-	-	-	-	-	2.886E-05 (2.5)	-	-	1.852E-02(0.03)	3.153E-03(0.08)
17.65	-	-	-	-	-	2.822E-05 (2.5)	-	-	1.982E-02(0.03)	3.194E-03(0.08)
17.70	-	-	-	-	-	2.720E-05 (2.6)	-	-	2.129E-02(0.03)	3.233E-03(0.08)
17.75	-	-	-	-	-	2.575E-05 (2.6)	-	-	2.294E-02(0.03)	3.267E-03(0.08)
17.80	-	-	-	-	-	2.465E-05 (2.7)	-	-	2.482E-02(0.03)	3.311E-03(0.08)
17.85	-	-	-	-	-	2.318E-05 (2.8)	-	-	2.697E-02(0.03)	3.356E-03(0.08)
17.90	-	-	-	-	-	2.321E-05 (2.8)	-	-	2.946E-02(0.03)	3.395E-03(0.08)
17.95	-	-	-	-	-	1.986E-05 (3.0)	-	-	3.234E-02(0.02)	3.436E-03(0.08)
18.00	-	-	-	-	-	1.896E-05 (3.1)	-	-	3.569E-02(0.02)	3.481E-03(0.08)
18.05	-	-	-	-	-	1.794E-05 (3.2)	-	-	3.966E-02(0.02)	3.528E-03(0.08)
18.10	-	-	-	-	-	1.673E-05 (3.3)	-	-	4.435E-02(0.02)	3.572E-03(0.07)
18.15	-	-	-	-	-	1.490E-05 (3.5)	-	-	4.997E-02(0.02)	3.622E-03(0.07)
18.20	-	-	-	-	-	1.381E-05 (3.6)	-	-	5.670E-02(0.02)	3.668E-03(0.07)
18.25	-	-	-	-	-	1.238E-05 (3.8)	-	-	6.474E-02(0.02)	3.720E-03(0.07)
18.30	-	-	-	-	-	1.012E-05 (4.2)	-	-	7.434E-02(0.02)	3.763E-03(0.07)
18.35	-	-	-	-	-	9.521E-06 (4.4)	-	-	8.539E-02(0.02)	3.821E-03(0.07)
18.40	-	-	-	-	-	7.021E-06 (5.1)	-	-	9.644E-02(0.01)	3.866E-03(0.07)
18.45	-	-	-	-	-	4.973E-06 (6.1)	-	-	1.048E-01(0.01)	3.923E-03(0.07)
18.50	-	-	-	-	-	6.147E-07 (17.)	-	-	1.086E-01(0.01)	3.985E-03(0.07)
18.55	-	-	-	-	-	-	-	-	1.092E-01(0.01)	4.041E-03(0.07)
18.60	-	-	-	-	-	-	-	-	1.088E-01(0.01)	4.099E-03(0.07)
18.65	-	-	-	-	-	-	-	-	1.070E-01(0.01)	4.157E-03(0.07)
18.70	-	-	-	-	-	-	-	-	1.028E-01(0.01)	4.220E-03(0.07)
18.75	-	-	-	-	-	-	-	-	9.837E-02(0.01)	4.284E-03(0.07)
18.80	-	-	-	-	-	-	-	-	9.481E-02(0.01)	4.349E-03(0.07)
18.85	-	-	-	-	-	-	-	-	8.798E-02(0.02)	4.412E-03(0.07)
18.90	-	-	-	-	-	-	-	-	7.660E-02(0.02)	4.478E-03(0.07)
18.95	-	-	-	-	-	-	-	-	6.618E-02(0.02)	4.554E-03(0.07)
19.00	-	-	-	-	-	-	-	-	5.837E-02(0.02)	4.628E-03(0.07)
19.05	-	-	-	-	-	-	-	-	4.777E-02(0.02)	4.700E-03(0.07)
19.10	-	-	-	-	-	-	-	-	3.400E-02(0.02)	4.781E-03(0.06)
19.15	-	-	-	-	-	-	-	-	2.350E-02(0.03)	4.860E-03(0.06)
19.20	-	-	-	-	-	-	-	-	1.717E-02(0.03)	4.938E-03(0.06)
19.25	-	-	-	-	-	-	-	-	1.092E-02(0.04)	5.025E-03(0.06)
19.30	-	-	-	-	-	-	-	-	4.812E-03(0.06)	5.108E-03(0.06)
19.35	-	-	-	-	-	-	-	-	1.299E-03(0.12)	5.206E-03(0.06)
19.40	-	-	-	-	-	-	-	-	2.026E-04(0.31)	5.290E-03(0.06)
19.45	-	-	-	-	-	-	-	-	1.733E-05(1.07)	5.380E-03(0.06)
19.50	-	-	-	-	-	-	-	-	7.120E-07(5.30)	5.484E-03(0.06)
19.55	-	-	-	-	-	-	-	-	2.000E-08(31.6)	5.585E-03(0.06)
19.60	-	-	-	-	-	-	-	-	-	5.690E-03(0.06)
19.65	-	-	-	-	-	-	-	-	-	5.796E-03(0.06)
19.70	-	-	-	-	-	-	-	-	-	5.907E-03(0.06)
19.75	-	-	-	-	-	-	-	-	-	6.021E-03(0.06)
19.80	-	-	-	-	-	-	-	-	-	6.145E-03(0.06)
19.85	-	-	-	-	-	-	-	-	-	6.263E-03(0.06)
19.90	-	-	-	-	-	-	-	-	-	6.391E-03(0.06)
19.95	-	-	-	-	-	-	-	-	-	6.523E-03(0.06)
20.00	-	-	-	-	-	-	-	-	-	6.666E-03(0.05)
20.05	-	-	-	-	-	-	-	-	-	6.806E-03(0.05)
20.10	-	-	-	-	-	-	-	-	-	6.949E-03(0.05)
20.15	-	-	-	-	-	-	-	-	-	7.097E-03(0.05)
20.20	-	-	-	-	-	-	-	-	-	7.264E-03(0.05)
20.25	-	-	-	-	-	-	-	-	-	7.421E-03(0.05)
20.30	-	-	-	-	-	-	-	-	-	7.601E-03(0.05)
20.35	-	-	-	-	-	-	-	-	-	7.774E-03(0.05)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
20.40	-	-	-	-	-	-	-	-	-	7.951E-03(0.05)
20.45	-	-	-	-	-	-	-	-	-	8.140E-03(0.05)
20.50	-	-	-	-	-	-	-	-	-	8.356E-03(0.05)
20.55	-	-	-	-	-	-	-	-	-	8.562E-03(0.05)
20.60	-	-	-	-	-	-	-	-	-	8.781E-03(0.05)
20.65	-	-	-	-	-	-	-	-	-	9.013E-03(0.05)
20.70	-	-	-	-	-	-	-	-	-	9.257E-03(0.05)
20.75	-	-	-	-	-	-	-	-	-	9.508E-03(0.05)
20.80	-	-	-	-	-	-	-	-	-	9.787E-03(0.05)
20.85	-	-	-	-	-	-	-	-	-	1.007E-02(0.04)
20.90	-	-	-	-	-	-	-	-	-	1.038E-02(0.04)
20.95	-	-	-	-	-	-	-	-	-	1.070E-02(0.04)
21.00	-	-	-	-	-	-	-	-	-	1.103E-02(0.04)
21.05	-	-	-	-	-	-	-	-	-	1.139E-02(0.04)
21.10	-	-	-	-	-	-	-	-	-	1.178E-02(0.04)
21.15	-	-	-	-	-	-	-	-	-	1.219E-02(0.04)
21.20	-	-	-	-	-	-	-	-	-	1.264E-02(0.04)
21.25	-	-	-	-	-	-	-	-	-	1.311E-02(0.04)
21.30	-	-	-	-	-	-	-	-	-	1.362E-02(0.04)
21.35	-	-	-	-	-	-	-	-	-	1.417E-02(0.04)
21.40	-	-	-	-	-	-	-	-	-	1.475E-02(0.04)
21.45	-	-	-	-	-	-	-	-	-	1.538E-02(0.04)
21.50	-	-	-	-	-	-	-	-	-	1.606E-02(0.04)
21.55	-	-	-	-	-	-	-	-	-	1.680E-02(0.03)
21.60	-	-	-	-	-	-	-	-	-	1.762E-02(0.03)
21.65	-	-	-	-	-	-	-	-	-	1.849E-02(0.03)
21.70	-	-	-	-	-	-	-	-	-	1.944E-02(0.03)
21.75	-	-	-	-	-	-	-	-	-	2.051E-02(0.03)
21.80	-	-	-	-	-	-	-	-	-	2.165E-02(0.03)
21.85	-	-	-	-	-	-	-	-	-	2.294E-02(0.03)
21.90	-	-	-	-	-	-	-	-	-	2.435E-02(0.03)
21.95	-	-	-	-	-	-	-	-	-	2.592E-02(0.03)
22.00	-	-	-	-	-	-	-	-	-	2.766E-02(0.03)
22.05	-	-	-	-	-	-	-	-	-	2.963E-02(0.03)
22.10	-	-	-	-	-	-	-	-	-	3.185E-02(0.03)
22.15	-	-	-	-	-	-	-	-	-	3.434E-02(0.02)
22.20	-	-	-	-	-	-	-	-	-	3.718E-02(0.02)
22.25	-	-	-	-	-	-	-	-	-	4.044E-02(0.02)
22.30	-	-	-	-	-	-	-	-	-	4.421E-02(0.02)
22.35	-	-	-	-	-	-	-	-	-	4.858E-02(0.02)
22.40	-	-	-	-	-	-	-	-	-	5.366E-02(0.02)
22.45	-	-	-	-	-	-	-	-	-	5.969E-02(0.02)
22.50	-	-	-	-	-	-	-	-	-	6.681E-02(0.02)
22.55	-	-	-	-	-	-	-	-	-	7.525E-02(0.02)
22.60	-	-	-	-	-	-	-	-	-	8.533E-02(0.02)
22.65	-	-	-	-	-	-	-	-	-	9.714E-02(0.01)
22.70	-	-	-	-	-	-	-	-	-	1.109E-01(0.01)
22.75	-	-	-	-	-	-	-	-	-	1.263E-01(0.01)
22.80	-	-	-	-	-	-	-	-	-	1.410E-01(0.01)
22.85	-	-	-	-	-	-	-	-	-	1.494E-01(0.01)
22.90	-	-	-	-	-	-	-	-	-	1.441E-01(0.01)
22.95	-	-	-	-	-	-	-	-	-	1.244E-01(0.01)
23.00	-	-	-	-	-	-	-	-	-	9.855E-02(0.01)
23.05	-	-	-	-	-	-	-	-	-	7.846E-02(0.02)
23.10	-	-	-	-	-	-	-	-	-	7.065E-02(0.02)
23.15	-	-	-	-	-	-	-	-	-	7.398E-02(0.02)
23.20	-	-	-	-	-	-	-	-	-	8.213E-02(0.02)
23.25	-	-	-	-	-	-	-	-	-	8.614E-02(0.02)
23.30	-	-	-	-	-	-	-	-	-	8.033E-02(0.02)

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Energy (MeV)	Photon spectra						Electron spectra			
	06 MV	06 MV-FFF	10 MV	10 MV-FFF	15 MV	20 MV	6 MeV	12 MeV	18 MeV	22 MeV
23.35	-	-	-	-	-	-	-	-	-	6.838E-02(0.02)
23.40	-	-	-	-	-	-	-	-	-	5.713E-02(0.02)
23.45	-	-	-	-	-	-	-	-	-	4.694E-02(0.02)
23.50	-	-	-	-	-	-	-	-	-	3.457E-02(0.02)
23.55	-	-	-	-	-	-	-	-	-	2.202E-02(0.03)
23.60	-	-	-	-	-	-	-	-	-	1.347E-02(0.04)
23.65	-	-	-	-	-	-	-	-	-	8.398E-03(0.05)
23.70	-	-	-	-	-	-	-	-	-	4.538E-03(0.07)
23.75	-	-	-	-	-	-	-	-	-	1.741E-03(0.11)
23.80	-	-	-	-	-	-	-	-	-	4.247E-04(0.22)
23.85	-	-	-	-	-	-	-	-	-	6.252E-05(0.57)
23.90	-	-	-	-	-	-	-	-	-	5.236E-06(1.95)
23.95	-	-	-	-	-	-	-	-	-	2.460E-07(9.02)
24.00	-	-	-	-	-	-	-	-	-	8.000E-09(50.0)