```
%auto-ignore
# exp. cross sections as a function of missing momentum
# all cross sections include the bin correction factor
#
# theta_nq = 35.0
#
# Averaged for all contributing bins
#
# p_miss_av     : fm^-1, missing momentum (use for plotting averaged results)
# rho           : fm^3, reduced cross section (momentum distribution)
# delta_rho     : fm^3, 6total error in reduced cross section (momentum distribution)
# delta_rho1    : fm^3, total error in reduced cross section including chi2 of averaging
#
# Kinematics and cross section for each contributing bin:
#
#  th_e         : electron scattering angle (deg)
#  Ei           : incident energy (MeV)
#  omega        : energy transfer (MeV)
#  qlab         : 3-momentum transfer in lab (MeV/c)
#  cos_phi      : cos(phi), phi reaction plane angle
#  pf           : final proton momentum (MeV/c)
#  p_miss       : averaged missing momentum (MeV/c)
#  pm_b         : missing momentum bin_center (MeV/c)
#  th_nq        : angle between recoiling neutron and qlab
#  sig_exp      : exp. cross section for this bin (nb/(MeV Sr^2))
#  dsig_exp     : error in exp cross section for this bin (nb/(MeV Sr^2))
#  sig_red_exp  : exp. red. cross section (rho) for this bin (fm^3)
#  bc           : bin centering correction factor used: sig_exp_raw * bc = exp. cross section at avg. kinematics reported above
#
# common values for Nr indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! Nr[i,0]/ p_miss_av[f,1]/ rho[f,2]/ delta_rho[f,3]/ delta_rho1[f,4]/ th_e[f,5]/ Ei[f,6]/ omega[f,7]/ qlab[f,8]/ cos_phi[f,9]/ pf[f,10]/ p_miss[f,11]/ pm_b[f,12]/ th_nq[f,13]/
sig_exp[f,14]/ dsig_exp[f,15]/ bc[f,16]/ sig_red_exp[f,17]/
0 0.150  4.024e+00  6.993e-01  6.993e-01 12.294 10599.565 2128.126 2940.646 -0.17417 2916.417   31.807   20.000  40.180  1.262e+00  2.194e-01 0.96231  4.024e+00
1 0.305  1.186e+00  6.495e-02  6.495e-02 12.402 10598.881 2102.028 2936.273 -0.13942 2887.394   62.170   60.000  37.790  3.567e-01  1.952e-02 0.88440  1.186e+00
2 0.491  2.903e-01  1.237e-02  1.237e-02 12.568 10598.655 2084.777 2944.567 0.04031 2865.924   99.140  100.000  36.918  8.014e-02  3.416e-03 0.81312  2.903e-01
3 0.692  7.617e-02  4.291e-03  4.291e-03 12.751 10598.546 2073.372 2958.993 0.24128 2848.685  138.748  140.000  36.520  1.892e-02  1.066e-03 0.84506  7.617e-02
4 0.895  2.015e-02  2.028e-03  2.028e-03 12.883 10598.439 2052.462 2961.793 0.45596 2819.826  177.804  180.000  35.970  4.590e-03  4.620e-04 0.88176  2.015e-02
5 1.098  8.676e-03  1.361e-03  1.361e-03 12.958 10598.537 2022.121 2952.660 0.63016 2779.172  217.658  220.000  35.855  1.862e-03  2.921e-04 0.90664  8.676e-03
6 1.303  2.794e-03  8.076e-04  8.076e-04 13.037 10598.568 1997.744 2947.868 0.71317 2743.102  257.537  260.000  35.790  5.687e-04  1.644e-04 0.91851  2.794e-03
7 1.505  8.384e-04  4.842e-04  4.842e-04 13.120 10598.607 1979.598 2947.518 0.74892 2711.965  297.431  300.000  35.829  1.623e-04  9.375e-05 0.92913  8.384e-04
8 1.708  7.549e-04  5.339e-04  5.339e-04 13.198 10598.691 1965.693 2949.144 0.75914 2683.712  337.372  340.000  36.045  1.400e-04  9.899e-05 0.93495  7.549e-04
9 1.905  6.216e-04  6.217e-04  6.217e-04 13.269 10598.722 1957.639 2953.390 0.74134 2660.600  376.119  380.000  36.531  1.113e-04  1.113e-04 0.94683  6.216e-04
10 2.351  9.659e-05  4.383e-05  4.383e-05 11.764 10599.314 1527.874 2524.579 -0.95406 2160.614  464.096  460.000  34.952  9.085e-05  5.255e-05 0.97379  1.141e-04
10 2.351  9.659e-05  4.383e-05  4.383e-05 11.767 10599.248 1527.284 2524.626 -0.95519 2159.875  464.294  460.000  34.834  6.581e-05  4.659e-05 0.97087  8.277e-05
11 2.542  6.033e-05  1.700e-05  1.700e-05 11.881 10599.138 1541.376 2547.407 -0.93584 2156.508  501.870  500.000  35.152  5.490e-05  1.943e-05 0.96172  7.214e-05
11 2.542  6.033e-05  1.700e-05  1.700e-05 11.881 10599.051 1541.652 2547.516 -0.93475 2156.749  501.986  500.000  35.188  3.875e-05  1.734e-05 0.96091  5.092e-05
12 2.738  4.264e-05  9.844e-06  9.844e-06 12.012 10598.799 1561.254 2575.328 -0.91583 2157.665  540.661  540.000  35.429  2.790e-05  9.305e-06 0.95457  3.877e-05
12 2.738  4.264e-05  9.844e-06  9.844e-06 12.010 10598.886 1560.739 2574.831 -0.91439 2157.062  540.738  540.000  35.421  3.453e-05  1.093e-05 0.95384  4.795e-05
13 2.938  1.877e-05  5.001e-06  8.602e-06 12.162 10598.738 1586.835 2608.688 -0.89552 2163.584  580.011  580.000  35.599  6.752e-06  3.899e-06 0.95480  1.007e-05
13 2.938  1.877e-05  5.001e-06  8.602e-06 12.160 10598.661 1586.586 2608.305 -0.89549 2163.297  580.038  580.000  35.615  3.151e-05  7.883e-06 0.95021  4.694e-05
13 2.938  1.877e-05  5.001e-06  8.602e-06 11.712 10599.361 1472.099 2489.042 -0.96738 2035.573  584.052  580.000  34.612  3.096e-05  3.098e-05 0.96894  3.356e-05
13 2.938  1.877e-05  5.001e-06  8.602e-06 11.711 10599.389 1472.031 2488.828 -0.96762 2035.489  584.068  580.000  34.632  3.341e-05  1.932e-05 0.97276  3.618e-05
14 3.140  2.285e-05  4.285e-06  5.460e-06 12.329 10598.659 1618.382 2647.483 -0.87718 2174.752  619.594  620.000  35.721  2.656e-06  6.863e-06 0.95116  4.306e-05
14 3.140  2.285e-05  4.285e-06  5.460e-06 12.330 10598.655 1618.393 2647.590 -0.87844 2174.755  619.609  620.000  35.709  9.321e-06  3.807e-06 0.95095  1.511e-05
14 3.140  2.285e-05  4.285e-06  5.460e-06 11.817 10599.168 1494.717 2514.827 -0.95540 2038.094  621.698  620.000  35.140  3.010e-05  9.091e-06 0.96398  3.413e-05
14 3.140  2.285e-05  4.285e-06  5.460e-06 11.818 10599.097 1494.349 2514.724 -0.95579 2037.654  621.757  620.000  35.101  1.336e-05  1.336e-05 0.95914  1.515e-05
14 3.140  2.285e-05  4.285e-06  5.460e-06 11.816 10599.180 1494.098 2514.368 -0.95544 2037.345  621.809  620.000  35.112  1.564e-05  1.107e-05 0.96246  1.773e-05
15 3.343  1.240e-05  2.687e-06  2.687e-06 12.489 10598.452 1650.083 2685.355 -0.86208 2184.958  659.280  660.000  35.802  7.568e-06  3.385e-06 0.95410  1.329e-05
15 3.343  1.240e-05  2.687e-06  2.687e-06 12.487 10598.557 1649.620 2684.905 -0.86240 2184.335  659.472  660.000  35.796  1.187e-05  3.958e-06 0.95662  2.081e-05
15 3.343  1.240e-05  2.687e-06  2.687e-06 11.932 10598.868 1518.829 2542.677 -0.94494 2040.433  660.709  660.000  35.412  7.462e-06  3.048e-06 0.95249  8.919e-06
15 3.343  1.240e-05  2.687e-06  2.687e-06 11.931 10598.980 1519.071 2542.799 -0.94530 2040.630  660.817  660.000  35.430  1.411e-05  7.057e-06 0.95266  1.686e-05
16 3.543  1.247e-05  2.287e-06  2.287e-06 12.628 10598.458 1679.832 2719.401 -0.84737 2192.048  698.945  700.000  35.919  7.540e-06  3.079e-06 0.95345  1.418e-05
16 3.543  1.247e-05  2.287e-06  2.287e-06 12.628 10598.497 1679.978 2719.398 -0.84746 2192.195  698.963  700.000  35.937  8.619e-06  3.519e-06 0.95673  1.620e-05
16 3.543  1.247e-05  2.287e-06  2.287e-06 12.052 10598.783 1547.020 2573.447 -0.93266 2046.124  699.961  700.000  35.691  8.459e-06  2.552e-06 0.95700  1.073e-05
16 3.543  1.247e-05  2.287e-06  2.287e-06 12.053 10598.859 1546.870 2573.435 -0.93264 2045.936  699.996  700.000  35.674  8.747e-06  4.374e-06 0.95495  1.110e-05
16 3.543  1.247e-05  2.287e-06  2.287e-06 12.056 10598.810 1547.455 2574.135 -0.93322 2046.501  700.114  700.000  35.670  1.517e-05  7.589e-06 0.95482  1.929e-05
```

17	3.744	1.005e-05	1.923e-06	2.474e-06	12.745	10598.330	1707.220	2749.182	-0.83209	2195.686	738.520	740.000	36.066	3.015e-06	2.132e-06	0.94935	6.005e-06
17	3.744	1.005e-05	1.923e-06	2.474e-06	12.740	10598.349	1706.795	2748.354	-0.83013	2195.217	738.529	740.000	36.103	9.201e-06	3.478e-06	0.95329	1.829e-05
17	3.744	1.005e-05	1.923e-06	2.474e-06	12.191	10598.689	1579.590	2608.970	-0.92355	2055.570	739.399	740.000	35.829	9.648e-06	3.940e-06	0.95493	1.316e-05
17	3.744	1.005e-05	1.923e-06	2.474e-06	12.192	10598.667	1579.907	2609.151	-0.92378	2055.905	739.421	740.000	35.847	2.832e-06	2.832e-06	0.95669	3.863e-06
17	3.744	1.005e-05	1.923e-06	2.474e-06	12.193	10598.683	1580.039	2609.412	-0.92336	2055.992	739.505	740.000	35.835	1.020e-05	2.407e-06	0.95498	1.394e-05
18	3.946	1.166e-05	2.112e-06	2.272e-06	12.830	10598.252	1732.072	2773.484	-0.81103	2195.534	778.313	780.000	36.340	4.416e-06	2.550e-06	0.94345	9.192e-06
18	3.946	1.166e-05	2.112e-06	2.272e-06	12.334	10598.619	1614.610	2646.227	-0.91448	2066.577	779.181	780.000	35.936	9.233e-06	2.066e-06	0.95800	1.359e-05
18	3.946	1.166e-05	2.112e-06	2.272e-06	12.334	10598.691	1614.520	2646.165	-0.91464	2066.411	779.277	780.000	35.932	5.210e-06	2.606e-06	0.95619	7.669e-06
18	3.946	1.166e-05	2.112e-06	2.272e-06	12.335	10598.663	1614.676	2646.350	-0.91425	2066.463	779.448	780.000	35.931	1.592e-05	6.020e-06	0.95312	2.345e-05
19	4.147	6.147e-06	1.452e-06	1.452e-06	12.902	10598.288	1756.280	2795.755	-0.78859	2193.856	818.088	820.000	36.597	1.799e-06	1.799e-06	0.92313	3.896e-06
19	4.147	6.147e-06	1.452e-06	1.452e-06	12.904	10598.302	1756.690	2796.208	-0.78777	2194.291	818.103	820.000	36.597	2.059e-06	2.059e-06	0.92088	4.465e-06
19	4.147	6.147e-06	1.452e-06	1.452e-06	12.473	10598.478	1650.134	2683.183	-0.90662	2077.305	818.933	820.000	36.010	4.433e-06	1.337e-06	0.95567	7.034e-06
19	4.147	6.147e-06	1.452e-06	1.452e-06	12.472	10598.475	1650.242	2683.188	-0.90708	2077.299	819.105	820.000	36.019	3.416e-06	1.973e-06	0.95430	5.418e-06
19	4.147	6.147e-06	1.452e-06	1.452e-06	12.475	10598.620	1650.619	2683.734	-0.90666	2077.686	819.142	820.000	36.008	5.897e-06	3.405e-06	0.95363	9.369e-06
20	4.350	7.149e-06	1.594e-06	1.594e-06	12.962	10598.197	1779.987	2816.273	-0.76677	2190.971	857.695	860.000	36.833	4.781e-06	3.381e-06	0.90108	1.073e-05
20	4.350	7.149e-06	1.594e-06	1.594e-06	12.960	10598.210	1779.814	2815.908	-0.76442	2190.757	857.730	860.000	36.847	5.471e-06	3.869e-06	0.89951	1.227e-05
20	4.350	7.149e-06	1.594e-06	1.594e-06	12.594	10598.502	1684.408	2717.199	-0.89884	2085.803	858.766	860.000	36.115	3.646e-06	2.578e-06	0.94847	6.179e-06
20	4.350	7.149e-06	1.594e-06	1.594e-06	12.595	10598.525	1684.723	2717.534	-0.89914	2086.064	858.880	860.000	36.116	3.375e-06	1.125e-06	0.94641	5.724e-06
20	4.350	7.149e-06	1.594e-06	1.594e-06	12.595	10598.433	1684.592	2717.434	-0.89919	2085.916	858.887	860.000	36.112	9.349e-06	3.117e-06	0.94688	1.585e-05
21	4.552	4.212e-06	1.320e-06	1.565e-06	12.706	10598.302	1719.468	2750.546	-0.89257	2094.488	898.499	900.000	36.252	2.154e-06	8.794e-07	0.93498	3.883e-06
21	4.552	4.212e-06	1.320e-06	1.565e-06	12.705	10598.417	1719.357	2750.382	-0.89259	2094.344	898.527	900.000	36.255	1.983e-06	1.402e-06	0.93438	3.574e-06
21	4.552	4.212e-06	1.320e-06	1.565e-06	12.703	10598.327	1718.919	2749.828	-0.89204	2093.779	898.641	900.000	36.258	8.858e-06	3.962e-06	0.93565	1.595e-05
22	4.754	3.577e-06	1.266e-06	1.266e-06	12.799	10598.268	1753.804	2781.023	-0.88613	2101.677	938.235	940.000	36.456	1.827e-06	1.827e-06	0.92120	3.471e-06
22	4.754	3.577e-06	1.266e-06	1.266e-06	12.795	10598.294	1753.132	2780.156	-0.88504	2100.874	938.321	940.000	36.462	2.037e-06	1.441e-06	0.92327	3.863e-06
22	4.754	3.577e-06	1.266e-06	1.266e-06	12.796	10598.381	1753.383	2780.387	-0.88511	2101.083	938.406	940.000	36.465	1.848e-06	8.265e-07	0.92201	3.505e-06
23	4.955	3.245e-06	1.623e-06	1.623e-06	12.878	10598.191	1788.054	2809.620	-0.87840	2108.007	978.108	980.000	36.696	1.632e-06	8.160e-07	0.91010	3.245e-06
24	5.157	2.178e-06	1.332e-06	1.332e-06	12.943	10598.125	1822.226	2836.671	-0.87118	2113.719	1017.873	1020.000	36.950	9.471e-07	6.698e-07	0.90442	1.960e-06
24	5.157	2.178e-06	1.332e-06	1.332e-06	12.948	10598.153	1823.272	2837.821	-0.87137	2114.852	1017.889	1020.000	36.953	2.323e-06	2.324e-06	0.90431	4.820e-06
25	5.358	3.064e-06	1.646e-06	2.618e-06	13.009	10598.052	1859.444	2865.596	-0.86571	2122.157	1057.674	1060.000	37.225	1.114e-06	7.881e-07	0.89103	2.401e-06
25	5.358	3.064e-06	1.646e-06	2.618e-06	13.011	10598.110	1859.767	2865.950	-0.86635	2122.451	1057.747	1060.000	37.225	6.214e-06	3.108e-06	0.88933	1.339e-05
26	5.762	4.672e-06	2.410e-06	2.410e-06	13.127	10597.919	1937.180	2923.978	-0.86227	2141.035	1137.274	1140.000	37.745	8.205e-06	5.803e-06	0.86535	1.897e-05
26	5.762	4.672e-06	2.410e-06	2.410e-06	13.130	10597.955	1936.842	2924.193	-0.86207	2140.636	1137.310	1140.000	37.710	2.356e-06	2.356e-06	0.86309	5.459e-06
26	5.762	4.672e-06	2.410e-06	2.410e-06	13.130	10597.962	1936.854	2924.099	-0.86206	2140.644	1137.317	1140.000	37.716	1.674e-06	1.184e-06	0.86363	3.877e-06
27	5.944	1.320e-05	1.320e-05	1.320e-05	13.177	10597.836	1973.076	2950.605	-0.86126	2149.745	1173.259	1180.000	37.929	5.539e-06	5.540e-06	0.82075	1.320e-05

```
%auto-ignore
# exp. cross sections as a function of missing momentum
# all cross sections include the bin correction factor
#
# theta_nq = 45.0
#
# Averaged for all contributing bins
#
# p_miss_av     : fm^-1, missing momentum (use for plotting averaged results)
# rho           : fm^3, reduced cross section (momentum distribution)
# delta_rho     : fm^3, total error in reduced cross section (momentum distribution)
# delta_rho1    : fm^3, total error in reduced cross section including chi2 of averaging
#
# Kinematics and cross section for each contributing bin:
#
#  th_e         : electron scattering angle (deg)
#  Ei           : incident energy (MeV)
#  omega        : energy transfer (MeV)
#  qlab         : 3-momentum transfer in lab (MeV/c)
#  cos_phi      : cos(phi), phi reaction plane angle
#  pf           : final proton momentum (MeV/c)
#  p_miss       : averaged missing momentum (MeV/c)
#  pm_b         : missing momentum bin_center (MeV/c)
#  th_nq        : angle between recoiling neutron and qlab
#  sig_exp      : exp. cross section for this bin (nb/(MeV Sr^2))
#  dsig_exp     : error in exp cross section for this bin (nb/(MeV Sr^2))
#  sig_red_exp  : exp. red. cross section (rho) for this bin (fm^3)
#  bc           : bin centering correction factor used: sig_exp_raw * bc = exp. cross section at avg. kinematics reported above
#
# common values for Nr indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! Nr[i,0]/ p_miss_av[f,1]/ rho[f,2]/ delta_rho[f,3]/ delta_rho1[f,4]/ th_e[f,5]/ Ei[f,6]/ omega[f,7]/ qlab[f,8]/ cos_phi[f, 9]/ pf[f,10]/ p_miss[f,11]/ pm_b[f,12]/ th_nq[f,13]/
sig_exp[f,14]/ dsig_exp[f,15]/ bc[f,16]/ sig_red_exp[f,17]/
0 0.151  6.154e+00  1.104e+00  1.104e+00 12.279 10599.418 2131.865 2941.335 -0.11858 2920.355   31.473   20.000  47.966  1.941e+00  3.482e-01 1.00550  6.154e+00
1 0.306  1.339e+00  7.199e-02  7.199e-02 12.386 10598.876 2113.396 2941.657 -0.20523 2899.328   62.411   60.000  46.847  4.067e-01  2.186e-02 0.89554  1.339e+00
2 0.493  2.574e-01  1.097e-02  1.097e-02 12.507 10598.653 2093.701 2943.086 -0.04589 2875.305   99.207  100.000  46.194  7.367e-02  3.139e-03 0.82836  2.574e-01
3 0.693  6.844e-02  3.768e-03  3.768e-03 12.627 10598.538 2075.044 2945.394 0.15538 2850.492  138.440  140.000  45.736  1.820e-02  1.002e-03 0.82979  6.844e-02
4 0.895  2.099e-02  1.786e-03  1.786e-03 12.701 10598.680 2049.880 2938.749 0.33597 2816.993  178.375  180.000  45.670  5.273e-03  4.486e-04 0.85394  2.099e-02
5 1.098  5.275e-03  8.820e-04  8.820e-04 12.776 10598.668 2029.644 2935.361 0.45070 2786.969  218.252  220.000  45.581  1.252e-03  2.094e-04 0.87084  5.275e-03
6 1.303  2.844e-03  6.909e-04  6.909e-04 12.859 10598.687 2015.759 2937.010 0.49708 2762.057  257.816  260.000  45.390  6.410e-04  1.557e-04 0.90744  2.844e-03
7 1.507  7.931e-04  3.967e-04  3.967e-04 12.950 10598.647 2008.923 2943.911 0.50199 2742.827  297.900  300.000  45.368  1.703e-04  8.518e-05 0.91838  7.931e-04
8 1.711  7.336e-04  4.237e-04  4.237e-04 13.031 10598.667 2005.286 2951.600 0.48234 2725.405  337.974  340.000  45.503  1.520e-04  8.776e-05 0.93255  7.336e-04
9 1.915  3.111e-04  3.111e-04  3.111e-04 13.100 10598.691 2003.861 2959.156 0.46011 2708.714  378.275  380.000  45.736  6.268e-05  6.268e-05 0.94004  3.111e-04
10 2.188  1.975e-02  2.686e-02  2.686e-02 11.585 10599.954 1566.938 2521.182 -0.98517 2218.253  431.761  420.000  41.833  1.738e-02  2.365e-02 1.24544  1.975e-02
11 2.327  3.673e-04  2.731e-04  2.731e-04 13.213 10598.641 2009.557 2976.203 0.41036 2680.677  457.495  460.000  46.310  1.147e-04  1.147e-04 0.94448  5.910e-04
11 2.327  3.673e-04  2.731e-04  2.731e-04 11.722 10599.695 1602.422 2558.383 -0.97226 2240.393  466.716  460.000  43.096  2.545e-04  2.557e-04 1.05263  3.066e-04
12 2.550  1.020e-04  4.061e-05  5.222e-05 11.827 10599.350 1626.571 2585.298 -0.95986 2248.340  503.380  500.000  43.687  1.460e-04  5.978e-05 1.00200  1.829e-04
12 2.550  1.020e-04  4.061e-05  5.222e-05 11.831 10599.339 1627.438 2586.248 -0.96001 2249.261  503.416  500.000  43.688  5.440e-05  3.850e-05 1.00561  6.829e-05
13 2.744  6.920e-05  1.789e-05  1.789e-05 11.920 10599.084 1650.394 2610.378 -0.94702 2253.980  541.691  540.000  44.211  5.338e-05  2.020e-05 0.98276  6.907e-05
13 2.744  6.920e-05  1.789e-05  1.789e-05 11.925 10599.091 1651.534 2611.674 -0.94679 2255.138  541.831  540.000  44.206  5.340e-05  1.890e-05 0.98399  6.932e-05
14 2.941  4.390e-05  9.898e-06  1.055e-05 12.003 10598.801 1673.210 2633.660 -0.93112 2257.006  580.739  580.000  44.565  2.526e-05  9.551e-06 0.97016  3.367e-05
14 2.941  4.390e-05  9.898e-06  1.055e-05 12.002 10598.927 1673.517 2633.768 -0.93222 2257.304  580.799  580.000  44.593  4.420e-05  1.183e-05 0.96935  5.888e-05
14 2.941  4.390e-05  9.898e-06  1.055e-05 11.642 10599.629 1551.996 2520.878 -0.97855 2122.007  586.168  580.000  42.021  3.057e-04  3.096e-04 1.05747  3.149e-04
15 3.141  4.019e-05  7.716e-06  7.716e-06 12.086 10598.749 1698.358 2658.314 -0.91633 2261.311  620.062  620.000  44.840  3.672e-05  8.664e-06 0.96418  5.059e-05
15 3.141  4.019e-05  7.716e-06  7.716e-06 12.084 10598.647 1698.193 2657.912 -0.91517 2261.086  620.139  620.000  44.864  2.332e-05  7.379e-06 0.96482  3.209e-05
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16 3.343  2.366e-05  4.624e-06  4.624e-06 12.161 10598.425 1724.090 2682.096 -0.89756 2265.188  659.422  660.000  45.088  1.800e-05  5.694e-06 0.96526  2.558e-05
16 3.343  2.366e-05  4.624e-06  4.624e-06 12.161 10598.582 1724.309 2682.216 -0.89881 2265.279  659.659  660.000  45.098  1.569e-05  4.963e-06 0.96440  2.228e-05
16 3.343  2.366e-05  4.624e-06  4.624e-06 11.833 10599.257 1614.878 2579.733 -0.96601 2144.898  661.977  660.000  43.129  1.545e-05  8.926e-06 0.99753  1.725e-05
16 3.343  2.366e-05  4.624e-06  4.624e-06 11.832 10599.193 1614.401 2579.370 -0.96589 2144.342  662.033  660.000  43.111  7.512e-05  3.364e-05 0.99941  8.382e-05
16 3.343  2.366e-05  4.624e-06  4.624e-06 11.833 10599.257 1614.804 2579.710 -0.96685 2144.747  662.089  660.000  43.122  5.203e-05  3.681e-05 0.99265  5.807e-05
17 3.545  3.344e-05  4.627e-06  4.627e-06 12.237 10598.376 1751.499 2707.104 -0.88086 2269.761  699.000  700.000  45.232  2.395e-05  6.187e-06 0.96113  3.522e-05
17 3.545  3.344e-05  4.627e-06  4.627e-06 12.236 10598.421 1751.605 2707.069 -0.88084 2269.727  699.230  700.000  45.244  2.349e-05  5.702e-06 0.96363  3.454e-05
17 3.545  3.344e-05  4.627e-06  4.627e-06 11.908 10599.120 1645.287 2606.073 -0.95866 2153.006  701.116  700.000  43.568  2.342e-05  1.172e-05 0.98733  2.696e-05
17 3.545  3.344e-05  4.627e-06  4.627e-06 11.908 10599.064 1645.720 2606.250 -0.95881 2153.454  701.154  700.000  43.597  2.078e-05  1.470e-05 0.98915  2.392e-05
17 3.545  3.344e-05  4.627e-06  4.627e-06 11.908 10599.056 1645.135 2605.942 -0.95811 2152.813  701.156  700.000  43.564  3.145e-05  8.135e-06 0.98958  3.620e-05
18 3.747  1.794e-05  2.950e-06  2.950e-06 12.306 10598.317 1779.821 2731.843 -0.86440 2274.125  738.971  740.000  45.351  1.687e-05  4.682e-06 0.96013  2.563e-05
```

18	3.747	1.794e-05	2.950e-06	2.950e-06	12.310	10598.364	1779.528	2732.113	-0.86358	2273.749	739.059	740.000	45.297	1.198e-05	4.238e-06	0.95873	1.825e-05
18	3.747	1.794e-05	2.950e-06	2.950e-06	11.975	10598.817	1674.133	2630.534	-0.95002	2158.462	740.294	740.000	43.849	5.755e-06	5.755e-06	0.98251	6.814e-06
18	3.747	1.794e-05	2.950e-06	2.950e-06	11.976	10598.870	1674.744	2630.980	-0.94997	2159.066	740.385	740.000	43.869	1.645e-05	4.401e-06	0.98400	1.949e-05
18	3.747	1.794e-05	2.950e-06	2.950e-06	11.976	10598.861	1674.522	2630.818	-0.95001	2158.780	740.451	740.000	43.860	1.665e-05	7.448e-06	0.98392	1.972e-05
19	3.948	1.791e-05	2.688e-06	2.872e-06	12.371	10598.312	1808.762	2756.303	-0.84898	2278.395	778.751	780.000	45.432	9.147e-06	3.735e-06	0.96264	1.433e-05
19	3.948	1.791e-05	2.688e-06	2.872e-06	12.371	10598.252	1809.384	2756.680	-0.84983	2279.036	778.797	780.000	45.458	1.870e-05	5.002e-06	0.96450	2.930e-05
19	3.948	1.791e-05	2.688e-06	2.872e-06	12.036	10598.694	1704.090	2654.943	-0.94183	2164.040	779.794	780.000	44.095	1.455e-05	3.433e-06	0.98314	1.769e-05
19	3.948	1.791e-05	2.688e-06	2.872e-06	12.036	10598.701	1703.888	2654.817	-0.94182	2163.792	779.834	780.000	44.086	2.042e-05	6.809e-06	0.98191	2.482e-05
19	3.948	1.791e-05	2.688e-06	2.872e-06	12.039	10598.783	1704.617	2655.577	-0.94217	2164.576	779.850	780.000	44.091	8.037e-06	5.684e-06	0.98185	9.785e-06
20	4.150	1.505e-05	2.326e-06	2.326e-06	12.429	10598.129	1838.832	2780.755	-0.83551	2283.036	818.555	820.000	45.508	9.923e-06	4.052e-06	0.96021	1.600e-05
20	4.150	1.505e-05	2.326e-06	2.326e-06	12.427	10598.165	1838.366	2780.212	-0.83559	2282.465	818.650	820.000	45.508	7.222e-06	3.230e-06	0.95793	1.163e-05
20	4.150	1.505e-05	2.326e-06	2.326e-06	12.093	10598.596	1735.159	2679.503	-0.93343	2169.923	819.405	820.000	44.303	1.388e-05	2.962e-06	0.98354	1.731e-05
20	4.150	1.505e-05	2.326e-06	2.326e-06	12.094	10598.454	1735.334	2679.774	-0.93318	2170.076	819.459	820.000	44.296	9.329e-06	5.387e-06	0.98563	1.165e-05
20	4.150	1.505e-05	2.326e-06	2.326e-06	12.093	10598.698	1735.322	2679.702	-0.93355	2169.979	819.575	820.000	44.299	1.243e-05	4.698e-06	0.98184	1.550e-05
21	4.352	8.208e-06	1.683e-06	2.092e-06	12.479	10598.242	1869.298	2804.535	-0.82234	2287.321	858.362	860.000	45.571	1.302e-05	4.606e-06	0.96028	2.154e-05
21	4.352	8.208e-06	1.683e-06	2.092e-06	12.481	10598.162	1870.028	2805.235	-0.82316	2288.102	858.374	860.000	45.579	5.554e-06	3.207e-06	0.95850	9.194e-06
21	4.352	8.208e-06	1.683e-06	2.092e-06	12.151	10598.434	1767.808	2705.309	-0.92588	2176.670	859.119	860.000	44.439	8.260e-06	2.134e-06	0.98368	1.060e-05
21	4.352	8.208e-06	1.683e-06	2.092e-06	12.151	10598.503	1767.550	2705.210	-0.92572	2176.363	859.156	860.000	44.425	4.719e-06	2.725e-06	0.98360	6.056e-06
21	4.352	8.208e-06	1.683e-06	2.092e-06	12.150	10598.471	1767.481	2705.051	-0.92590	2176.156	859.334	860.000	44.427	2.672e-06	2.672e-06	0.98134	3.427e-06
22	4.553	1.133e-05	1.976e-06	1.976e-06	12.520	10598.098	1901.395	2828.211	-0.81083	2292.655	898.139	900.000	45.684	6.572e-06	3.795e-06	0.96207	1.109e-05
22	4.553	1.133e-05	1.976e-06	1.976e-06	12.522	10598.174	1902.007	2828.783	-0.81249	2293.248	898.232	900.000	45.690	5.838e-06	3.371e-06	0.95949	9.856e-06
22	4.553	1.133e-05	1.976e-06	1.976e-06	12.202	10598.430	1799.852	2730.037	-0.91871	2182.045	898.801	900.000	44.511	9.102e-06	2.147e-06	0.98243	1.198e-05
22	4.553	1.133e-05	1.976e-06	1.976e-06	12.201	10598.339	1799.910	2729.870	-0.91927	2182.107	898.801	900.000	44.527	1.299e-05	4.332e-06	0.98490	1.707e-05
22	4.553	1.133e-05	1.976e-06	1.976e-06	12.200	10598.393	1800.041	2729.842	-0.91901	2182.198	898.871	900.000	44.538	5.091e-06	3.600e-06	0.98579	6.688e-06
23	4.755	7.370e-06	1.705e-06	1.787e-06	12.553	10598.071	1934.736	2851.776	-0.80328	2298.524	938.075	940.000	45.810	2.815e-06	2.815e-06	0.96517	4.823e-06
23	4.755	7.370e-06	1.705e-06	1.787e-06	12.247	10598.186	1833.414	2754.894	-0.91181	2188.376	938.488	940.000	44.609	2.467e-06	2.467e-06	0.98237	3.320e-06
23	4.755	7.370e-06	1.705e-06	1.787e-06	12.246	10598.316	1833.428	2754.805	-0.91211	2188.298	938.611	940.000	44.614	7.933e-06	1.984e-06	0.98461	1.067e-05
23	4.755	7.370e-06	1.705e-06	1.787e-06	12.248	10598.273	1833.557	2755.158	-0.91225	2188.393	938.669	940.000	44.599	5.624e-06	2.813e-06	0.98366	7.572e-06
24	4.956	1.142e-05	2.247e-06	2.300e-06	12.581	10597.984	1969.663	2875.853	-0.79967	2305.701	977.691	980.000	45.946	3.116e-06	3.116e-06	0.97471	5.394e-06
24	4.956	1.142e-05	2.247e-06	2.300e-06	12.579	10598.030	1969.380	2875.465	-0.79852	2305.257	977.870	980.000	45.946	3.487e-06	3.487e-06	0.97278	6.034e-06
24	4.956	1.142e-05	2.247e-06	2.300e-06	12.291	10598.204	1866.642	2779.609	-0.90590	2193.537	978.379	980.000	44.613	1.170e-05	4.139e-06	0.98363	1.610e-05
24	4.956	1.142e-05	2.247e-06	2.300e-06	12.293	10598.216	1867.048	2780.151	-0.90609	2193.841	978.554	980.000	44.605	9.739e-06	2.236e-06	0.97905	1.342e-05
25	5.159	6.992e-06	1.763e-06	1.763e-06	12.596	10597.983	2005.836	2899.360	-0.79812	2313.370	1017.623	1020.000	46.121	4.053e-06	4.054e-06	0.99451	7.033e-06
25	5.159	6.992e-06	1.763e-06	1.763e-06	12.607	10597.950	2005.822	2900.744	-0.79777	2313.282	1017.715	1020.000	46.036	9.473e-06	6.701e-06	0.97014	1.656e-05
25	5.159	6.992e-06	1.763e-06	1.763e-06	12.329	10598.100	1900.088	2804.000	-0.90025	2198.435	1018.126	1020.000	44.593	4.740e-06	2.737e-06	0.99179	6.657e-06
25	5.159	6.992e-06	1.763e-06	1.763e-06	12.329	10598.030	1900.722	2804.355	-0.90042	2199.097	1018.160	1020.000	44.615	8.275e-06	4.778e-06	0.99676	1.162e-05
25	5.159	6.992e-06	1.763e-06	1.763e-06	12.329	10598.091	1900.274	2804.073	-0.90022	2198.607	1018.164	1020.000	44.601	4.455e-06	1.576e-06	0.99425	6.255e-06
26	5.361	4.103e-06	1.794e-06	1.794e-06	12.619	10597.868	2041.201	2923.627	-0.79670	2319.902	1057.169	1060.000	46.139	1.168e-05	8.263e-06	1.01662	2.044e-05
26	5.361	4.103e-06	1.794e-06	1.794e-06	12.615	10597.790	2041.679	2923.417	-0.79690	2320.378	1057.219	1060.000	46.180	6.821e-06	6.823e-06	1.02088	1.190e-05
26	5.361	4.103e-06	1.794e-06	1.794e-06	12.371	10598.034	1934.909	2829.806	-0.89444	2204.139	1058.017	1060.000	44.527	2.543e-06	1.272e-06	1.01847	3.657e-06
27	5.562	5.979e-06	1.975e-06	1.975e-06	12.628	10597.631	2078.186	2947.310	-0.79670	2327.351	1097.084	1100.000	46.229	1.025e-05	1.025e-05	1.04862	1.790e-05
27	5.562	5.979e-06	1.975e-06	1.975e-06	12.641	10597.705	2078.309	2948.907	-0.79765	2327.293	1097.317	1100.000	46.145	8.274e-06	8.277e-06	1.03547	1.457e-05
27	5.562	5.979e-06	1.975e-06	1.975e-06	12.411	10597.980	1968.439	2854.667	-0.88738	2208.081	1097.686	1100.000	44.390	3.767e-06	1.685e-06	1.03220	5.548e-06
27	5.562	5.979e-06	1.975e-06	1.975e-06	12.410	10597.935	1968.278	2854.488	-0.88723	2207.902	1097.692	1100.000	44.389	4.191e-06	2.964e-06	1.03302	6.170e-06
27	5.562	5.979e-06	1.975e-06	1.975e-06	12.409	10598.023	1968.524	2854.467	-0.88752	2208.124	1097.746	1100.000	44.405	3.705e-06	3.705e-06	1.03322	5.449e-06
28	5.764	6.140e-06	2.248e-06	2.248e-06	12.652	10597.674	2114.570	2972.770	-0.79713	2333.770	1136.849	1140.000	46.141	1.227e-05	1.227e-05	1.04419	2.163e-05
28	5.764	6.140e-06	2.248e-06	2.248e-06	12.440	10597.919	2002.098	2878.486	-0.88137	2211.633	1137.391	1140.000	44.279	8.847e-06	6.257e-06	1.03370	1.326e-05
28	5.764	6.140e-06	2.248e-06	2.248e-06	12.444	10597.915	2002.098	2879.027	-0.88159	2211.618	1137.409	1140.000	44.250	4.430e-06	1.982e-06	1.02481	6.657e-06
28	5.764	6.140e-06	2.248e-06	2.248e-06	12.443	10597.957	2002.095	2878.945	-0.88166	2211.534	1137.505	1140.000	44.252	2.487e-06	2.487e-06	1.02640	3.736e-06
29	5.944	4.484e-06	2.480e-06	2.480e-06	12.472	10597.857	2032.929	2901.217	-0.87589	2215.034	1173.097	1180.000	44.116	2.435e-06	1.722e-06	1.02214	3.725e-06
29	5.944	4.484e-06	2.480e-06	2.480e-06	12.471	10597.892	2033.044	2901.123	-0.87596	2215.114	1173.149	1180.000	44.126	6.791e-06	4.804e-06	1.02116	1.038e-05

```
%auto-ignore
# exp. cross sections as a function of missing momentum
# all cross sections include the bin correction factor
#
# theta_nq = 75.0
#
# Averaged for all contributing bins
#
# p_miss_av     : fm^-1, missing momentum (use for plotting averaged results)
# rho           : fm^3, reduced cross section (momentum distribution)
# delta_rho     : fm^3, total error in reduced cross section (momentum distribution)
# delta_rho1    : fm^3, total error in reduced cross section including chi2 of averaging
#
# Kinematics and cross section for each contributing bin:
#
#  th_e         : electron scattering angle (deg)
#  Ei           : incident energy (MeV)
#  omega        : energy transfer (MeV)
#  qlab         : 3-momentum transfer in lab (MeV/c)
#  cos_phi      : cos(phi), phi reaction plane angle
#  pf           : final proton momentum (MeV/c)
#  p_miss       : averaged missing momentum (MeV/c)
#  pm_b         : missing momentum bin_center (MeV/c)
#  th_nq        : angle between recoiling neutron and qlab
#  sig_exp      : exp. cross section for this bin (nb/(MeV Sr^2))
#  dsig_exp     : error in exp cross section for this bin (nb/(MeV Sr^2))
#  sig_red_exp  : exp. red. cross section (rho) for this bin (fm^3)
#  bc           : bin centering correction factor used: sig_exp_raw * bc = exp. cross section at avg. kinematics reported above
#
# common values for Nr indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! Nr[i,0]/ p_miss_av[f,1]/ rho[f,2]/ delta_rho[f,3]/ delta_rho1[f,4]/ th_e[f,5]/ Ei[f,6]/ omega[f,7]/ qlab[f,8]/ cos_phi[f, 9]/ pf[f,10]/ p_miss[f,11]/ pm_b[f,12]/ th_nq[f,13]/
sig_exp[f,14]/ dsig_exp[f,15]/ bc[f,16]/ sig_red_exp[f,17]/
0 0.155  4.892e+00  1.204e+00  1.204e+00 12.282 10599.055 2164.582 2962.734 -0.55836 2954.681   32.054   20.000  75.148  1.556e+00  3.829e-01 0.91338  4.892e+00
1 0.304  1.394e+00  1.076e-01  1.076e-01 12.326 10599.116 2162.622 2966.423 -0.62909 2951.101   61.312   60.000  74.954  4.464e-01  3.446e-02 1.06666  1.394e+00
2 0.491  2.697e-01  1.605e-02  1.605e-02 12.378 10598.834 2163.442 2972.687 -0.61769 2948.722   97.880  100.000  74.911  8.690e-02  5.171e-03 1.02273  2.697e-01
3 0.691  6.454e-02  4.691e-03  4.691e-03 12.436 10598.605 2170.603 2983.859 -0.56247 2951.124  137.151  140.000  74.909  2.070e-02  1.504e-03 0.93278  6.454e-02
4 0.893  1.736e-02  1.867e-03  1.867e-03 12.481 10598.545 2179.078 2994.357 -0.48096 2953.138  176.925  180.000  74.876  5.526e-03  5.944e-04 0.85037  1.736e-02
5 1.099  5.309e-03  9.204e-04  9.204e-04 12.493 10598.502 2183.354 2998.457 -0.38224 2948.944  217.235  220.000  74.795  1.692e-03  2.933e-04 0.78924  5.309e-03
6 1.306  3.347e-03  7.255e-04  7.255e-04 12.496 10598.545 2190.724 3003.490 -0.31769 2946.168  258.085  260.000  74.755  1.076e-03  2.331e-04 0.70685  3.347e-03
7 1.516  1.253e-03  4.310e-04  4.310e-04 12.493 10598.582 2202.533 3010.779 -0.28602 2946.140  299.686  300.000  74.743  4.099e-04  1.410e-04 0.77938  1.253e-03
8 1.720  1.101e-03  4.184e-04  4.184e-04 12.488 10598.515 2218.850 3020.894 -0.27361 2949.756  339.653  340.000  74.740  3.683e-04  1.399e-04 0.95463  1.101e-03
9 1.922  1.422e-03  5.062e-04  5.062e-04 12.486 10598.544 2238.740 3033.683 -0.27430 2955.610  379.691  380.000  74.600  4.876e-04  1.736e-04 0.99890  1.422e-03
10 2.123  4.275e-04  3.024e-04  3.024e-04 12.487 10598.532 2260.669 3048.181 -0.27623 2962.341  419.340  420.000  74.300  1.502e-04  1.063e-04 1.01909  4.275e-04
11 2.323  2.599e-04  2.600e-04  2.600e-04 12.486 10598.452 2284.894 3064.108 -0.28239 2970.310  458.626  460.000  73.965  9.386e-05  9.387e-05 1.01212  2.599e-04
12 2.523  1.038e-03  5.999e-04  5.999e-04 12.491 10598.504 2309.873 3081.222 -0.28832 2977.716  498.117  500.000  73.433  3.843e-04  2.220e-04 0.99804  1.038e-03
13 2.723  4.987e-04  4.989e-04  4.989e-04 12.490 10598.407 2336.390 3098.908 -0.30042 2985.522  537.633  540.000  72.915  1.904e-04  1.904e-04 0.97890  4.987e-04
14 2.923  8.514e-04  8.519e-04  8.519e-04 12.494 10598.320 2367.417 3120.352 -0.31890 2997.058  576.881  580.000  72.426  3.353e-04  3.355e-04 0.96503  8.514e-04
```

```
%auto-ignore
# Jean-Marc Laget (JML) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 35 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwiaXsec      : theoretical cross section using the JML Paris PWIA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the JML Paris FSI model ( nb / (MeV Sr^2) )
# theory_red_pwiaXsec  : theoretical reduced cross section using the JML Paris PWIA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the JML Paris FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwiaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwiaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03181  1.61523E+00  1.53652E+00  5.11131E+00  4.87851E+00
0.06000  0.06217  4.21284E-01  4.07189E-01  1.40260E+00  1.34910E+00
0.10000  0.09914  8.38780E-02  7.80362E-02  3.02404E-01  2.81526E-01
0.14000  0.13875  1.89574E-02  1.73447E-02  7.60664E-02  6.95513E-02
0.18000  0.17780  5.30832E-03  4.84347E-03  2.31758E-02  2.11768E-02
0.22000  0.21766  1.73442E-03  1.59862E-03  8.05752E-03  7.41694E-03
0.26000  0.25754  6.50355E-04  6.12495E-04  3.19513E-03  2.99707E-03
0.30000  0.29743  2.86027E-04  2.72338E-04  1.47434E-03  1.40076E-03
0.34000  0.33737  1.45822E-04  1.38080E-04  7.84144E-04  7.41708E-04
0.38000  0.37612  8.57986E-05  8.01055E-05  4.77790E-04  4.45521E-04
0.38000  0.39347  3.32632E-04  3.28614E-04  3.68145E-04  3.59354E-04
0.42000  0.41497  5.62551E-05  5.18066E-05  3.19687E-04  2.94575E-04
0.42000  0.42805  2.27988E-04  2.12164E-04  2.70262E-04  2.50752E-04
0.42000  0.42917  2.27852E-04  2.09098E-04  2.69930E-04  2.48803E-04
0.46000  0.45276  3.93186E-05  3.65382E-05  2.26077E-04  2.10549E-04
0.46000  0.46410  1.59365E-04  1.44819E-04  1.99552E-04  1.81223E-04
0.46000  0.46429  1.58940E-04  1.43968E-04  1.99467E-04  1.80396E-04
0.50000  0.48805  2.94378E-05  2.73592E-05  1.71802E-04  1.60126E-04
0.50000  0.50187  1.12504E-04  1.00422E-04  1.47512E-04  1.31442E-04
0.50000  0.50199  1.12731E-04  1.00405E-04  1.47597E-04  1.31427E-04
0.50000  0.51271  1.43543E-04  1.18254E-04  1.37752E-04  1.13691E-04
0.50000  0.51301  1.44175E-04  1.24952E-04  1.37263E-04  1.16588E-04
0.50000  0.51367  1.48138E-04  1.19727E-04  1.37395E-04  1.14193E-04
0.54000  0.54066  7.90947E-05  6.92451E-05  1.09366E-04  9.58701E-05
0.54000  0.54074  7.89443E-05  6.92456E-05  1.09284E-04  9.58030E-05
0.54000  0.54793  1.00893E-04  8.48221E-05  1.02978E-04  8.66913E-05
0.54000  0.54800  1.00268E-04  8.55814E-05  1.02693E-04  8.73306E-05
0.54000  0.54801  9.93474E-05  8.55043E-05  1.02125E-04  8.73730E-05
0.58000  0.58001  5.40768E-05  4.71003E-05  8.07364E-05  6.99772E-05
0.58000  0.58004  5.40811E-05  4.71697E-05  8.06374E-05  6.99969E-05
0.58000  0.58391  7.20096E-05  6.13167E-05  7.78328E-05  6.60766E-05
0.58000  0.58405  7.19394E-05  6.10127E-05  7.77215E-05  6.58860E-05
0.58000  0.58407  7.22533E-05  6.10973E-05  7.80418E-05  6.59142E-05
0.62000  0.61959  3.63242E-05  3.14027E-05  5.89476E-05  5.07081E-05
0.62000  0.61961  3.63936E-05  3.13854E-05  5.90015E-05  5.06798E-05
0.62000  0.62170  5.09696E-05  4.34439E-05  5.77022E-05  4.90750E-05
0.62000  0.62176  5.08129E-05  4.33608E-05  5.75547E-05  4.89913E-05
0.62000  0.62181  5.09118E-05  4.34061E-05  5.76258E-05  4.89929E-05
0.66000  0.65928  2.44207E-05  2.09512E-05  4.29576E-05  3.66347E-05
0.66000  0.65947  2.43884E-05  2.09443E-05  4.28213E-05  3.65774E-05
0.66000  0.66056  3.52026E-05  3.01116E-05  4.20660E-05  3.58850E-05
0.66000  0.66071  3.52860E-05  3.01141E-05  4.21066E-05  3.58544E-05
0.66000  0.66082  3.52186E-05  3.01114E-05  4.20454E-05  3.58437E-05
0.70000  0.69895  1.63678E-05  1.40478E-05  3.08157E-05  2.63115E-05
0.70000  0.69896  1.63388E-05  1.40588E-05  3.07971E-05  2.63222E-05
0.70000  0.69996  2.38653E-05  2.06155E-05  3.03084E-05  2.60590E-05
0.70000  0.70000  2.38675E-05  2.05917E-05  3.03083E-05  2.60355E-05
0.70000  0.70011  2.38330E-05  2.05303E-05  3.02798E-05  2.59992E-05
0.74000  0.73852  1.09517E-05  9.44664E-06  2.18602E-05  1.87433E-05
0.74000  0.73853  1.09342E-05  9.47747E-06  2.18416E-05  1.87690E-05
0.74000  0.73940  1.56869E-05  1.36708E-05  2.14387E-05  1.85783E-05
0.74000  0.73942  1.56562E-05  1.36761E-05  2.14321E-05  1.85859E-05
0.74000  0.73950  1.56805E-05  1.36475E-05  2.14166E-05  1.85657E-05
0.78000  0.77831  7.30024E-06  6.37083E-06  1.52277E-05  1.32086E-05
0.78000  0.77838  7.27294E-06  6.36883E-06  1.51908E-05  1.32098E-05
0.78000  0.77918  1.00540E-05  8.89292E-06  1.48936E-05  1.30432E-05
0.78000  0.77928  1.00542E-05  8.88536E-06  1.48785E-05  1.30295E-05
0.78000  0.77945  1.00452E-05  8.86485E-06  1.48845E-05  1.30070E-05
0.82000  0.81809  4.74978E-06  4.24325E-06  1.02974E-05  9.15369E-06
0.82000  0.81810  4.74661E-06  4.23645E-06  1.03014E-05  9.15193E-06
0.82000  0.81893  6.33742E-06  5.71249E-06  1.01341E-05  9.02927E-06
0.82000  0.81910  6.34275E-06  5.70765E-06  1.01419E-05  9.01740E-06
0.82000  0.81914  6.34043E-06  5.69418E-06  1.01475E-05  9.01156E-06
0.86000  0.85769  3.03661E-06  2.80791E-06  6.83051E-06  6.27591E-06
0.86000  0.85773  3.04163E-06  2.81020E-06  6.83747E-06  6.28023E-06
0.86000  0.85877  3.94082E-06  3.63071E-06  6.74424E-06  6.12960E-06
0.86000  0.85888  3.93763E-06  3.62345E-06  6.73897E-06  6.12104E-06
0.86000  0.85889  3.93556E-06  3.62328E-06  6.73393E-06  6.11979E-06
0.90000  0.89736  1.91251E-06  1.85083E-06  4.44633E-06  4.27757E-06
0.90000  0.89747  1.91372E-06  1.84268E-06  4.44028E-06  4.25792E-06
0.90000  0.89850  2.39816E-06  2.27966E-06  4.35843E-06  4.09449E-06
0.90000  0.89853  2.39580E-06  2.28033E-06  4.35428E-06  4.09362E-06
0.90000  0.89864  2.40055E-06  2.28056E-06  4.35876E-06  4.08916E-06
0.94000  0.93715  1.17242E-06  1.20375E-06  2.80609E-06  2.86022E-06
0.94000  0.93731  1.17404E-06  1.19999E-06  2.81340E-06  2.85804E-06
0.94000  0.93824  1.42827E-06  1.43489E-06  2.73661E-06  2.71525E-06
0.94000  0.93832  1.42843E-06  1.43553E-06  2.73806E-06  2.71164E-06
```

0.94000	0.93841	1.42972E-06	1.43410E-06	2.73793E-06	2.70998E-06
0.98000	0.97691	6.93014E-07	7.61932E-07	1.71292E-06	1.87350E-06
0.98000	0.97692	6.91856E-07	7.61921E-07	1.70967E-06	1.87364E-06
0.98000	0.97811	8.25554E-07	8.92757E-07	1.65704E-06	1.76848E-06
0.98000	0.97818	8.27118E-07	8.92208E-07	1.65936E-06	1.76679E-06
0.98000	0.97827	8.27445E-07	8.91176E-07	1.65997E-06	1.76511E-06
1.02000	1.01633	3.89285E-07	4.77600E-07	9.85293E-07	1.21152E-06
1.02000	1.01662	3.84991E-07	4.74075E-07	9.78795E-07	1.20076E-06
1.02000	1.01787	4.64729E-07	5.56722E-07	9.72134E-07	1.14751E-06
1.02000	1.01789	4.64492E-07	5.55052E-07	9.72133E-07	1.14693E-06
1.02000	1.01791	4.64512E-07	5.56667E-07	9.72910E-07	1.14690E-06
1.06000	1.05549	2.04843E-07	2.90520E-07	5.38010E-07	7.58540E-07
1.06000	1.05567	2.04006E-07	2.91833E-07	5.33374E-07	7.57753E-07
1.06000	1.05767	2.44640E-07	3.38618E-07	5.31994E-07	7.26700E-07
1.06000	1.05775	2.45065E-07	3.38083E-07	5.32666E-07	7.25875E-07
1.06000	1.05780	2.44438E-07	3.37211E-07	5.32269E-07	7.24882E-07
1.10000	1.09590	1.03984E-07	1.73337E-07	2.79081E-07	4.63662E-07
1.10000	1.09658	1.01221E-07	1.71556E-07	2.71910E-07	4.61909E-07
1.10000	1.09750	1.22011E-07	2.02586E-07	2.74843E-07	4.51467E-07
1.10000	1.09754	1.21627E-07	2.03002E-07	2.74177E-07	4.51702E-07
1.10000	1.09758	1.21641E-07	2.02367E-07	2.74301E-07	4.50848E-07
1.14000	1.13727	5.52395E-08	1.19139E-07	1.28508E-07	2.74436E-07
1.14000	1.13731	5.53236E-08	1.18543E-07	1.28766E-07	2.73603E-07
1.14000	1.13732	5.53272E-08	1.18650E-07	1.28769E-07	2.73724E-07
1.18000	1.17314	2.31551E-08	7.14511E-08	5.53402E-08	1.69029E-07
1.18000	1.17315	2.31427E-08	7.13842E-08	5.53222E-08	1.68957E-07
1.18000	1.17326	2.31087E-08	7.09526E-08	5.53016E-08	1.68461E-07

```
%auto-ignore
# Jean-Marc Laget (JML) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 45 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwiaXsec      : theoretical cross section using the JML Paris PWIA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the JML Paris FSI model ( nb / (MeV Sr^2) )
# theory_red_pwiaXsec  : theoretical reduced cross section using the JML Paris PWIA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the JML Paris FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwiaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwiaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03147  1.63799E+00  1.58972E+00  5.17177E+00  5.01957E+00
0.06000  0.06241  4.50693E-01  4.39524E-01  1.47497E+00  1.44176E+00
0.10000  0.09921  8.82101E-02  8.14599E-02  3.07175E-01  2.83519E-01
0.14000  0.13844  1.96583E-02  1.77749E-02  7.34605E-02  6.65602E-02
0.18000  0.17838  5.59922E-03  4.90937E-03  2.21622E-02  1.94652E-02
0.22000  0.21825  1.86225E-03  1.64093E-03  7.81002E-03  6.88381E-03
0.26000  0.25782  7.16676E-04  6.58814E-04  3.16743E-03  2.91136E-03
0.30000  0.29790  3.18602E-04  3.09093E-04  1.47282E-03  1.43355E-03
0.34000  0.33797  1.62943E-04  1.69389E-04  7.83581E-04  8.14399E-04
0.38000  0.37827  9.44008E-05  1.04430E-04  4.68519E-04  5.16206E-04
0.42000  0.41804  6.09364E-05  7.01263E-05  3.09214E-04  3.54977E-04
0.42000  0.42984  2.34552E-04  2.47928E-04  2.65377E-04  2.82752E-04
0.42000  0.43176  2.34857E-04  2.44952E-04  2.66442E-04  2.77167E-04
0.46000  0.45749  4.18803E-05  5.00051E-05  2.15969E-04  2.56718E-04
0.46000  0.46616  1.63602E-04  1.75380E-04  1.96233E-04  2.11088E-04
0.46000  0.46672  1.62556E-04  1.76575E-04  1.95772E-04  2.11890E-04
0.50000  0.49769  2.99736E-05  3.69603E-05  1.55388E-04  1.90827E-04
0.50000  0.50338  1.16687E-04  1.28735E-04  1.46134E-04  1.60634E-04
0.50000  0.50342  1.16468E-04  1.28387E-04  1.46040E-04  1.60570E-04
0.54000  0.53717  2.21649E-05  2.81071E-05  1.14875E-04  1.45819E-04
0.54000  0.54169  8.36933E-05  9.41387E-05  1.08237E-04  1.21338E-04
0.54000  0.54183  8.35256E-05  9.36734E-05  1.08153E-04  1.21139E-04
0.54000  0.55082  1.04066E-04  1.06550E-04  1.01099E-04  1.03926E-04
0.54000  0.55292  1.05996E-04  1.06327E-04  1.01571E-04  1.02589E-04
0.54000  0.55327  1.04715E-04  1.06699E-04  1.01020E-04  1.02921E-04
0.58000  0.57607  1.63696E-05  2.18833E-05  8.47360E-05  1.12969E-04
0.58000  0.58074  5.98020E-05  6.87113E-05  7.98814E-05  9.12556E-05
0.58000  0.58080  5.98086E-05  6.87938E-05  7.99026E-05  9.12915E-05
0.58000  0.58594  7.39742E-05  7.91623E-05  7.61173E-05  8.10192E-05
0.58000  0.58617  7.42280E-05  7.89122E-05  7.63863E-05  8.09755E-05
0.58000  0.58675  7.40796E-05  7.81318E-05  7.60975E-05  8.04317E-05
0.62000  0.61533  1.22554E-05  1.69880E-05  6.29540E-05  8.63174E-05
0.62000  0.62006  4.24838E-05  4.99246E-05  5.86009E-05  6.85076E-05
0.62000  0.62014  4.24356E-05  5.00085E-05  5.86204E-05  6.85505E-05
0.62000  0.62354  5.27006E-05  5.72909E-05  5.67618E-05  6.17392E-05
0.62000  0.62355  5.28006E-05  5.74785E-05  5.67619E-05  6.17233E-05
0.62000  0.62367  5.27033E-05  5.72880E-05  5.66705E-05  6.16814E-05
0.66000  0.65135  9.12167E-06  1.34893E-05  4.60510E-05  6.79108E-05
0.66000  0.65942  2.97531E-05  3.62217E-05  4.26250E-05  5.12871E-05
0.66000  0.65966  2.97817E-05  3.61965E-05  4.26331E-05  5.12142E-05
0.66000  0.66198  3.71412E-05  4.20673E-05  4.14814E-05  4.67868E-05
0.66000  0.66203  3.72103E-05  4.20388E-05  4.15014E-05  4.67321E-05
0.66000  0.66209  3.71650E-05  4.20274E-05  4.14554E-05  4.67261E-05
0.70000  0.69900  2.06157E-05  2.59116E-05  3.06714E-05  3.79669E-05
0.70000  0.69923  2.06304E-05  2.58931E-05  3.06763E-05  3.79183E-05
0.70000  0.70112  2.59087E-05  3.05230E-05  2.98317E-05  3.50048E-05
0.70000  0.70115  2.58719E-05  3.05656E-05  2.98121E-05  3.50411E-05
0.70000  0.70116  2.58736E-05  3.05115E-05  2.98527E-05  3.49917E-05
0.74000  0.73897  1.40088E-05  1.83176E-05  2.16148E-05  2.77246E-05
0.74000  0.73906  1.40054E-05  1.82055E-05  2.16157E-05  2.76223E-05
0.74000  0.74029  1.78180E-05  2.19705E-05  2.11760E-05  2.59171E-05
0.74000  0.74038  1.77988E-05  2.19647E-05  2.11661E-05  2.59238E-05
0.74000  0.74045  1.77874E-05  2.19504E-05  2.11477E-05  2.59005E-05
0.78000  0.77875  9.41318E-06  1.28944E-05  1.50333E-05  2.01302E-05
0.78000  0.77880  9.39792E-06  1.29077E-05  1.50310E-05  2.01448E-05
0.78000  0.77979  1.20333E-05  1.56457E-05  1.47319E-05  1.89494E-05
0.78000  0.77983  1.20222E-05  1.56344E-05  1.47063E-05  1.89343E-05
0.78000  0.77985  1.20211E-05  1.56066E-05  1.47163E-05  1.89298E-05
0.82000  0.81856  6.17733E-06  8.95256E-06  1.02099E-05  1.43814E-05
0.82000  0.81865  6.18538E-06  8.95824E-06  1.02181E-05  1.43701E-05
0.82000  0.81941  7.94024E-06  1.10366E-05  1.00310E-05  1.37145E-05
0.82000  0.81946  7.94515E-06  1.10155E-05  1.00367E-05  1.37018E-05
0.82000  0.81958  7.94196E-06  1.10135E-05  1.00253E-05  1.36910E-05
0.86000  0.85836  3.99366E-06  6.20482E-06  6.80012E-06  1.02235E-05
0.86000  0.85837  3.98356E-06  6.19851E-06  6.79956E-06  1.02227E-05
0.86000  0.85912  5.14432E-06  7.62599E-06  6.69336E-06  9.74723E-06
0.86000  0.85916  5.12882E-06  7.61480E-06  6.68276E-06  9.73584E-06
0.86000  0.85933  5.13160E-06  7.61163E-06  6.68568E-06  9.72481E-06
0.90000  0.89814  2.51207E-06  4.28406E-06  4.40492E-06  7.20467E-06
0.90000  0.89823  2.51092E-06  4.27872E-06  4.39742E-06  7.19650E-06
0.90000  0.89880  3.21251E-06  5.20466E-06  4.31443E-06  6.82321E-06
0.90000  0.89880  3.21366E-06  5.21766E-06  4.31403E-06  6.83154E-06
0.90000  0.89887  3.21197E-06  5.22124E-06  4.31399E-06  6.83343E-06
0.94000  0.93788  1.54325E-06  2.94431E-06  2.76070E-06  5.02499E-06
0.94000  0.93807  1.54304E-06  2.94035E-06  2.76648E-06  5.01824E-06
0.94000  0.93849  1.95059E-06  3.50070E-06  2.69925E-06  4.69262E-06
0.94000  0.93861  1.94931E-06  3.50110E-06  2.69739E-06  4.68986E-06
```

0.94000	0.93867	1.95064E-06	3.48898E-06	2.69973E-06	4.67980E-06
0.98000	0.97769	9.03294E-07	2.02390E-06	1.65620E-06	3.49101E-06
0.98000	0.97787	9.04690E-07	2.02386E-06	1.65572E-06	3.48927E-06
0.98000	0.97838	1.14645E-06	2.31097E-06	1.63303E-06	3.16816E-06
0.98000	0.97839	1.14399E-06	2.30978E-06	1.63085E-06	3.16650E-06
0.98000	0.97855	1.14370E-06	2.30151E-06	1.62987E-06	3.15957E-06
1.02000	1.01762	5.18341E-07	1.38266E-06	9.62161E-07	2.39049E-06
1.02000	1.01771	5.17294E-07	1.35564E-06	9.60011E-07	2.36118E-06
1.02000	1.01813	6.54585E-07	1.51943E-06	9.58629E-07	2.12607E-06
1.02000	1.01816	6.52538E-07	1.52267E-06	9.56034E-07	2.13006E-06
1.02000	1.01816	6.53711E-07	1.52029E-06	9.58379E-07	2.12686E-06
1.06000	1.05717	2.86468E-07	9.33684E-07	5.38969E-07	1.62793E-06
1.06000	1.05722	2.87487E-07	9.41089E-07	5.40416E-07	1.63624E-06
1.06000	1.05796	3.50909E-07	9.93192E-07	5.28979E-07	1.42050E-06
1.06000	1.05802	3.50186E-07	9.88637E-07	5.27448E-07	1.41654E-06
1.06000	1.05808	3.50755E-07	9.89392E-07	5.28692E-07	1.41737E-06
1.10000	1.09708	1.44867E-07	6.28025E-07	2.74638E-07	1.09339E-06
1.10000	1.09732	1.44608E-07	6.13119E-07	2.74542E-07	1.07548E-06
1.10000	1.09769	1.71064E-07	6.24353E-07	2.65572E-07	9.16189E-07
1.10000	1.09769	1.71191E-07	6.24541E-07	2.65588E-07	9.16190E-07
1.10000	1.09775	1.71727E-07	6.26259E-07	2.65965E-07	9.17680E-07
1.14000	1.13612	6.68762E-08	3.92346E-07	1.27493E-07	6.88413E-07
1.14000	1.13685	6.70970E-08	3.87716E-07	1.27790E-07	6.81167E-07
1.14000	1.13739	7.37182E-08	3.82918E-07	1.17603E-07	5.71788E-07
1.14000	1.13741	7.36549E-08	3.80237E-07	1.17405E-07	5.69351E-07
1.14000	1.13750	7.39624E-08	3.80207E-07	1.17807E-07	5.69037E-07
1.18000	1.17279	3.08642E-08	2.49753E-07	5.88481E-08	4.44461E-07
1.18000	1.17283	3.01384E-08	2.53143E-07	5.84050E-08	4.48373E-07
1.18000	1.17310	3.56683E-08	2.44203E-07	5.82362E-08	3.72298E-07
1.18000	1.17315	3.57834E-08	2.44743E-07	5.81760E-08	3.72767E-07
1.18000	1.17318	3.57043E-08	2.40497E-07	5.82007E-08	3.68148E-07

```
%auto-ignore
# Jean-Marc Laget (JML) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 75 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwiaXsec      : theoretical cross section using the JML Paris PWIA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the JML Paris FSI model ( nb / (MeV Sr^2) )
# theory_red_pwiaXsec  : theoretical reduced cross section using the JML Paris PWIA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the JML Paris FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwiaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwiaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03205  1.77483E+00  1.63084E+00  5.50118E+00  5.10726E+00
0.06000  0.06131  5.79515E-01  5.64763E-01  1.79876E+00  1.75628E+00
0.10000  0.09788  1.19968E-01  1.10355E-01  3.70296E-01  3.41152E-01
0.14000  0.13715  2.65053E-02  2.22939E-02  8.21754E-02  6.92453E-02
0.18000  0.17692  7.22137E-03  5.11557E-03  2.25809E-02  1.60044E-02
0.22000  0.21724  2.51301E-03  1.44837E-03  7.84903E-03  4.52712E-03
0.26000  0.25809  1.03823E-03  5.46673E-04  3.21337E-03  1.69454E-03
0.30000  0.29969  4.86376E-04  3.13381E-04  1.47924E-03  9.54312E-04
0.34000  0.33965  2.60547E-04  2.60853E-04  7.76498E-04  7.77023E-04
0.38000  0.37969  1.59651E-04  2.41605E-04  4.63879E-04  7.01678E-04
0.42000  0.41934  1.07553E-04  2.17715E-04  3.04231E-04  6.17108E-04
0.46000  0.45863  7.75542E-05  1.85547E-04  2.12360E-04  5.11861E-04
0.50000  0.49812  5.74246E-05  1.49454E-04  1.52897E-04  4.02310E-04
0.54000  0.53763  4.33821E-05  1.14790E-04  1.12248E-04  2.99588E-04
0.58000  0.57688  3.28303E-05  8.44081E-05  8.22045E-05  2.13536E-04
0.62000  0.61586  2.47369E-05  6.03365E-05  5.98178E-05  1.46509E-04
0.66000  0.65361  1.90650E-05  4.31090E-05  4.41333E-05  9.98866E-05
0.70000  0.69332  1.44442E-05  2.92516E-05  3.18170E-05  6.44518E-05
0.74000  0.73493  1.07228E-05  1.89774E-05  2.27735E-05  3.99732E-05
```

```
%auto-ignore
# Sabine Jeschonnek, J.W.V.Orden, W.P.Ford (JVO WJC2) theoretical cross sections and reduced cross sections as a function of
missing momentum
#
# theta_nq = 35 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the JVO WJC2 PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the JVO WJC2 FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the JVO WJC2 PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the JVO WJC2 FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03181  3.30977E-05  3.20321E-05  5.32348E+00  5.15210E+00
0.06000  0.06217  7.92525E-06  7.52901E-06  1.33006E+00  1.26356E+00
0.10000  0.09914  1.54983E-06  1.43248E-06  2.83152E-01  2.61712E-01
0.14000  0.13875  3.47434E-07  3.11895E-07  7.05256E-02  6.33116E-02
0.18000  0.17780  9.90661E-08  8.67746E-08  2.19150E-02  1.91959E-02
0.22000  0.21766  3.31924E-08  2.84723E-08  7.78973E-03  6.68201E-03
0.26000  0.25754  1.28819E-08  1.08814E-08  3.18843E-03  2.69328E-03
0.30000  0.29743  5.77359E-09  4.81458E-09  1.50185E-03  1.25239E-03
0.34000  0.33737  2.98635E-09  2.45495E-09  8.11220E-04  6.66869E-04
0.38000  0.37612  1.77624E-09  1.43690E-09  4.99611E-04  4.04162E-04
0.46000  0.46410  3.38021E-09  2.66273E-09  2.14471E-04  1.68948E-04
0.46000  0.46429  3.37054E-09  2.65425E-09  2.14137E-04  1.68629E-04
0.50000  0.50187  2.43581E-09  1.88143E-09  1.61638E-04  1.24851E-04
0.50000  0.50199  2.43383E-09  1.87976E-09  1.61514E-04  1.24745E-04
0.54000  0.54066  1.76866E-09  1.33938E-09  1.24144E-04  9.40119E-05
0.54000  0.54074  1.76910E-09  1.33957E-09  1.24079E-04  9.39538E-05
0.58000  0.58001  1.26510E-09  9.37619E-10  9.52799E-05  7.06158E-05
0.58000  0.58004  1.26639E-09  9.38645E-10  9.52659E-05  7.06111E-05
0.58000  0.58405  1.69630E-09  1.27461E-09  9.28702E-05  6.97834E-05
0.58000  0.58407  1.69774E-09  1.27580E-09  9.28570E-05  6.97790E-05
0.62000  0.61959  8.81460E-10  6.36439E-10  7.21508E-05  5.20949E-05
0.62000  0.61961  8.81342E-10  6.36380E-10  7.21394E-05  5.20888E-05
0.62000  0.62170  1.24346E-09  9.16387E-10  7.12085E-05  5.24784E-05
0.62000  0.62176  1.24269E-09  9.15755E-10  7.11800E-05  5.24537E-05
0.62000  0.62181  1.24348E-09  9.16367E-10  7.11497E-05  5.24331E-05
0.66000  0.65928  6.06189E-10  4.24687E-10  5.37290E-05  3.76418E-05
0.66000  0.65947  6.06051E-10  4.24569E-10  5.36492E-05  3.75839E-05
0.66000  0.66071  8.82526E-10  6.35255E-10  5.32661E-05  3.83418E-05
0.66000  0.66082  8.81973E-10  6.34860E-10  5.32223E-05  3.83104E-05
0.70000  0.69895  4.15038E-10  2.81033E-10  3.94005E-05  2.66792E-05
0.70000  0.69896  4.15137E-10  2.81112E-10  3.93947E-05  2.66763E-05
0.70000  0.69996  6.11378E-10  4.27785E-10  3.91754E-05  2.74113E-05
0.70000  0.70000  6.11063E-10  4.27529E-10  3.91641E-05  2.74011E-05
0.70000  0.70011  6.09504E-10  4.26365E-10  3.91271E-05  2.73705E-05
0.74000  0.73852  2.83421E-10  1.84726E-10  2.85014E-05  1.85764E-05
0.74000  0.73853  2.83954E-10  1.85069E-10  2.85009E-05  1.85757E-05
0.74000  0.73940  4.11644E-10  2.78981E-10  2.83551E-05  1.92169E-05
0.74000  0.73942  4.11565E-10  2.78922E-10  2.83509E-05  1.92137E-05
0.74000  0.73950  4.10855E-10  2.78389E-10  2.83301E-05  1.91961E-05
0.78000  0.77831  1.93530E-10  1.21151E-10  2.03343E-05  1.27294E-05
0.78000  0.77918  2.72035E-10  1.77942E-10  2.02238E-05  1.32286E-05
0.78000  0.77928  2.71857E-10  1.77825E-10  2.02059E-05  1.32169E-05
0.78000  0.77945  2.71305E-10  1.77421E-10  2.01766E-05  1.31945E-05
0.82000  0.81809  1.31349E-10  7.88203E-11  1.43596E-05  8.61697E-06
0.82000  0.81810  1.31146E-10  7.86763E-11  1.43573E-05  8.61318E-06
0.82000  0.81893  1.78190E-10  1.12504E-10  1.42750E-05  9.01282E-06
0.82000  0.81911  1.78001E-10  1.12386E-10  1.42536E-05  8.99942E-06
0.82000  0.81914  1.77636E-10  1.12121E-10  1.42485E-05  8.99347E-06
0.86000  0.85770  8.87360E-11  5.11906E-11  1.00509E-05  5.79821E-06
0.86000  0.85773  8.87222E-11  5.11649E-11  1.00478E-05  5.79441E-06
0.86000  0.85877  1.16474E-10  7.12489E-11  9.96562E-06  6.09611E-06
0.86000  0.85888  1.16281E-10  7.11246E-11  9.95544E-06  6.08936E-06
0.86000  0.85889  1.16293E-10  7.11325E-11  9.95523E-06  6.08929E-06
0.90000  0.89850  7.58880E-11  4.53280E-11  6.90768E-06  4.12597E-06
0.90000  0.89853  7.59058E-11  4.53418E-11  6.90587E-06  4.12517E-06
0.90000  0.89864  7.59176E-11  4.53556E-11  6.89890E-06  4.12163E-06
0.94000  0.93824  4.96692E-11  2.94432E-11  4.76344E-06  2.82370E-06
0.94000  0.93832  4.97185E-11  2.94787E-11  4.75951E-06  2.82197E-06
0.94000  0.93841  4.96593E-11  2.94412E-11  4.75575E-06  2.81951E-06
0.98000  0.97811  3.25333E-11  1.95614E-11  3.26594E-06  1.96373E-06
1.02000  1.01790  2.13725E-11  1.44828E-11  2.23255E-06  1.51286E-06
1.02000  1.01790  2.13153E-11  1.44333E-11  2.23212E-06  1.51144E-06
1.06000  1.05770  1.39727E-11  1.06653E-11  1.51967E-06  1.15996E-06
1.06000  1.05770  1.39565E-11  1.06563E-11  1.51846E-06  1.15939E-06
1.14000  1.13730  5.99401E-12  6.13214E-12  6.99755E-07  7.15880E-07
1.14000  1.13730  5.98000E-12  6.12760E-12  6.99433E-07  7.16696E-07
1.14000  1.13730  5.98236E-12  6.12898E-12  6.99418E-07  7.16560E-07
1.18000  1.17330  4.10618E-12  4.87358E-12  4.94065E-07  5.86402E-07
```

```
%auto-ignore
# Sabine Jeschonnek, J.W.V.Orden, W.P.Ford (JVO WJC2) theoretical cross sections and reduced cross sections as a function of
missing momentum
#
# theta_nq = 45 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the JVO WJC2 PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the JVO WJC2 FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the JVO WJC2 PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the JVO WJC2 FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03147  3.37646E-05  3.26576E-05  5.39968E+00  5.22264E+00
0.06000  0.06241  7.92071E-06  7.49448E-06  1.31614E+00  1.24531E+00
0.10000  0.09921  1.60383E-06  1.46600E-06  2.82694E-01  2.58399E-01
0.14000  0.13844  3.76401E-07  3.30464E-07  7.13667E-02  6.26568E-02
0.18000  0.17838  1.07776E-07  9.08316E-08  2.16289E-02  1.82284E-02
0.22000  0.21825  3.62746E-08  2.95833E-08  7.70234E-03  6.28153E-03
0.26000  0.25782  1.42162E-08  1.14067E-08  3.17946E-03  2.55110E-03
0.30000  0.29790  6.36538E-09  5.11077E-09  1.49395E-03  1.19949E-03
0.34000  0.33797  3.31371E-09  2.69036E-09  8.06344E-04  6.54660E-04
0.38000  0.37827  1.95107E-09  1.60232E-09  4.88162E-04  4.00903E-04
0.42000  0.43176  4.91680E-09  4.02370E-09  2.82091E-04  2.30851E-04
0.46000  0.45750  8.87735E-10  7.30110E-10  2.30671E-04  1.89713E-04
0.46000  0.46672  3.44020E-09  2.81073E-09  2.09308E-04  1.71009E-04
0.50000  0.50338  2.51730E-09  2.05220E-09  1.59239E-04  1.29818E-04
0.50000  0.50342  2.51079E-09  2.04687E-09  1.59194E-04  1.29780E-04
0.54000  0.54169  1.87796E-09  1.42350E-09  1.22714E-04  9.30175E-05
0.54000  0.54183  1.86995E-09  1.41718E-09  1.22596E-04  9.29120E-05
0.58000  0.58074  1.40195E-09  1.07916E-09  9.43852E-05  7.26537E-05
0.58000  0.58080  1.40244E-09  1.08044E-09  9.43484E-05  7.26862E-05
0.58000  0.58617  1.75163E-09  1.38715E-09  9.11203E-05  7.21598E-05
0.62000  0.62006  1.02971E-09  8.00970E-10  7.16267E-05  5.57154E-05
0.62000  0.62014  1.03024E-09  8.01957E-10  7.15872E-05  5.57245E-05
0.62000  0.62355  1.28486E-09  1.01099E-09  6.99463E-05  5.50371E-05
0.66000  0.65942  7.45423E-10  5.83713E-10  5.35040E-05  4.18971E-05
0.66000  0.65966  7.44594E-10  5.83397E-10  5.34024E-05  4.18414E-05
0.66000  0.66198  9.31680E-10  7.30268E-10  5.25291E-05  4.11733E-05
0.66000  0.66203  9.31759E-10  7.30071E-10  5.25099E-05  4.11436E-05
0.66000  0.66209  9.31206E-10  7.29834E-10  5.24831E-05  4.11337E-05
0.70000  0.69900  5.28975E-10  4.14505E-10  3.92891E-05  3.07870E-05
0.70000  0.69923  5.28284E-10  4.14189E-10  3.92157E-05  3.07462E-05
0.70000  0.70112  6.65012E-10  5.08689E-10  3.86595E-05  2.95719E-05
0.70000  0.70115  6.65032E-10  5.09281E-10  3.86472E-05  2.95960E-05
0.70000  0.70116  6.64815E-10  5.08413E-10  3.86506E-05  2.95579E-05
0.74000  0.73897  3.69396E-10  2.88887E-10  2.83403E-05  2.21636E-05
0.74000  0.73906  3.68232E-10  2.87190E-10  2.83192E-05  2.20866E-05
0.74000  0.74029  4.69086E-10  3.62411E-10  2.80507E-05  2.16717E-05
0.74000  0.74038  4.68474E-10  3.62214E-10  2.80285E-05  2.16710E-05
0.74000  0.74045  4.68336E-10  3.61996E-10  2.80133E-05  2.16526E-05
0.78000  0.77875  2.55598E-10  1.99142E-10  2.02260E-05  1.57586E-05
0.78000  0.77880  2.55578E-10  1.99399E-10  2.02182E-05  1.57740E-05
0.78000  0.77979  3.26734E-10  2.55025E-10  2.00598E-05  1.56573E-05
0.78000  0.77983  3.26655E-10  2.54848E-10  2.00530E-05  1.56449E-05
0.78000  0.77985  3.26083E-10  2.54414E-10  2.00496E-05  1.56430E-05
0.82000  0.81855  1.75380E-10  1.36337E-10  1.42800E-05  1.11010E-05
0.82000  0.81865  1.75485E-10  1.36460E-10  1.42684E-05  1.10953E-05
0.82000  0.81940  2.25150E-10  1.77519E-10  1.41825E-05  1.11822E-05
0.82000  0.81946  2.24834E-10  1.77160E-10  1.41760E-05  1.11701E-05
0.82000  0.81958  2.24736E-10  1.77142E-10  1.41619E-05  1.11628E-05
0.86000  0.85836  1.19470E-10  9.30022E-11  9.97727E-06  7.76689E-06
0.86000  0.85837  1.19341E-10  9.29331E-11  9.97597E-06  7.76846E-06
0.86000  0.85912  1.53031E-10  1.21658E-10  9.91530E-06  7.88255E-06
0.86000  0.85916  1.52936E-10  1.21482E-10  9.91134E-06  7.87290E-06
0.86000  0.85933  1.52798E-10  1.21423E-10  9.89567E-06  7.86373E-06
0.90000  0.89814  8.11350E-11  6.41451E-11  6.91606E-06  5.46782E-06
0.90000  0.89823  8.10521E-11  6.41076E-11  6.90976E-06  5.46523E-06
0.90000  0.89880  1.03496E-10  8.31280E-11  6.87744E-06  5.52395E-06
0.90000  0.89880  1.03626E-10  8.33431E-11  6.87743E-06  5.53128E-06
0.90000  0.89887  1.03603E-10  8.33805E-11  6.87333E-06  5.53173E-06
0.94000  0.93808  5.50404E-11  4.52530E-11  4.76138E-06  3.91470E-06
0.94000  0.93849  6.98380E-11  5.74143E-11  4.74523E-06  3.90109E-06
0.94000  0.93861  6.98064E-11  5.74222E-11  4.73995E-06  3.89904E-06
0.94000  0.93867  6.96762E-11  5.72406E-11  4.73742E-06  3.89190E-06
0.98000  0.97769  3.74369E-11  3.33167E-11  3.27316E-06  2.91293E-06
0.98000  0.97787  3.73915E-11  3.33108E-11  3.26735E-06  2.91077E-06
0.98000  0.97838  4.68139E-11  4.00436E-11  3.25328E-06  2.78279E-06
0.98000  0.97855  4.66698E-11  3.98798E-11  3.24774E-06  2.77523E-06
1.02000  1.01760  2.54907E-11  2.65109E-11  2.23380E-06  2.32320E-06
1.02000  1.01770  2.52815E-11  2.58617E-11  2.23192E-06  2.28313E-06
1.02000  1.01810  3.13553E-11  2.90426E-11  2.22398E-06  2.05995E-06
1.02000  1.01820  3.13513E-11  2.91057E-11  2.22323E-06  2.06399E-06
1.02000  1.01820  3.13493E-11  2.90663E-11  2.22312E-06  2.06122E-06
1.06000  1.05720  1.72495E-11  2.23690E-11  1.52443E-06  1.97686E-06
1.06000  1.05720  1.72890E-11  2.26551E-11  1.52359E-06  1.99647E-06
1.06000  1.05800  2.08220E-11  2.22092E-11  1.51219E-06  1.61294E-06
1.10000  1.09710  1.17088E-11  2.16053E-11  1.03325E-06  1.90658E-06
1.10000  1.09730  1.15951E-11  2.08693E-11  1.03091E-06  1.85547E-06
```

1.10000	1.09770	1.38125E-11	1.83820E-11	1.02744E-06	1.36734E-06
1.10000	1.09770	1.38161E-11	1.83921E-11	1.02736E-06	1.36763E-06
1.10000	1.09770	1.38239E-11	1.84747E-11	1.02681E-06	1.37225E-06
1.14000	1.13680	7.87651E-12	2.15935E-11	7.01418E-07	1.92294E-06
1.14000	1.13740	9.21873E-12	1.70696E-11	6.97789E-07	1.29204E-06
1.14000	1.13740	9.19189E-12	1.68663E-11	6.97681E-07	1.28019E-06
1.14000	1.13750	9.18755E-12	1.68888E-11	6.96999E-07	1.28124E-06
1.18000	1.17310	6.39280E-12	1.68267E-11	4.94054E-07	1.30041E-06
1.18000	1.17310	6.39576E-12	1.69052E-11	4.93750E-07	1.30508E-06

```
%auto-ignore
# Sabine Jeschonnek, J.W.V.Orden, W.P.Ford (JVO WJC2) theoretical cross sections and reduced cross sections as a function of
missing momentum
#
# theta_nq = 75 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the JVO WJC2 PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the JVO WJC2 FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the JVO WJC2 PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the JVO WJC2 FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03205  3.32180E-05  3.20459E-05  5.26922E+00  5.08329E+00
0.06000  0.06131  8.79092E-06  8.22301E-06  1.38477E+00  1.29531E+00
0.10000  0.09788  1.90452E-06  1.66534E-06  2.98244E-01  2.60789E-01
0.14000  0.13715  4.74887E-07  3.70856E-07  7.47143E-02  5.83471E-02
0.18000  0.17693  1.42958E-07  9.50386E-08  2.26564E-02  1.50620E-02
0.22000  0.21724  5.02197E-08  2.76199E-08  7.95121E-03  4.37301E-03
0.26000  0.25809  2.02911E-08  1.00357E-08  3.18586E-03  1.57567E-03
0.30000  0.29969  9.45532E-09  5.54311E-09  1.45845E-03  8.55008E-04
0.34000  0.33965  5.23785E-09  4.49452E-09  7.90281E-04  6.78128E-04
0.38000  0.37969  3.26162E-09  4.07697E-09  4.79822E-04  5.99770E-04
0.42000  0.41934  2.21953E-09  3.61503E-09  3.18665E-04  5.19021E-04
0.46000  0.45863  1.61682E-09  3.04890E-09  2.25938E-04  4.26060E-04
0.50000  0.49812  1.22992E-09  2.45633E-09  1.67706E-04  3.34933E-04
0.54000  0.53763  9.67573E-10  1.89971E-09  1.27926E-04  2.51166E-04
0.58000  0.57688  7.65037E-10  1.40219E-09  9.80402E-05  1.79691E-04
```

```
%auto-ignore
# Misak Sargsian (MS CD-Bonn) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 35 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the MS CD-Bonn PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the MS CD-Bonn FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the MS CD-Bonn PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the MS CD-Bonn FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03181  1.71697E+00  1.65454E+00  5.45143E+00  5.25322E+00
0.06000  0.06217  4.11555E-01  3.87459E-01  1.36357E+00  1.28373E+00
0.10000  0.09914  8.06094E-02  7.33900E-02  2.90809E-01  2.64765E-01
0.14000  0.13875  1.81057E-02  1.60271E-02  7.26030E-02  6.42677E-02
0.18000  0.17780  5.16196E-03  4.40682E-03  2.25693E-02  1.92676E-02
0.22000  0.21766  1.71594E-03  1.40542E-03  7.96124E-03  6.52057E-03
0.26000  0.25754  6.50446E-04  5.18780E-04  3.18278E-03  2.53851E-03
0.30000  0.29743  2.76925E-04  2.24609E-04  1.42436E-03  1.15527E-03
0.34000  0.33737  1.31500E-04  1.07633E-04  7.06363E-04  5.78161E-04
0.38000  0.37612  7.01262E-05  5.87779E-05  3.90020E-04  3.26904E-04
0.38000  0.39338  2.92420E-04  2.42490E-04  3.15838E-04  2.61910E-04
0.38000  0.39347  2.88843E-04  2.38938E-04  3.15862E-04  2.61289E-04
0.42000  0.41497  4.04979E-05  3.45050E-05  2.30273E-04  1.96197E-04
0.42000  0.42805  1.72310E-04  1.44228E-04  2.03649E-04  1.70460E-04
0.42000  0.42917  1.68869E-04  1.42919E-04  2.00936E-04  1.70058E-04
0.46000  0.45276  2.51645E-05  2.24064E-05  1.45009E-04  1.29116E-04
0.46000  0.46410  1.06891E-04  9.16882E-05  1.33760E-04  1.14736E-04
0.46000  0.46429  1.06517E-04  9.52939E-05  1.33469E-04  1.19406E-04
0.50000  0.48805  1.65553E-05  1.54251E-05  9.68936E-05  9.02784E-05
0.50000  0.50187  6.75995E-05  5.78433E-05  8.84803E-05  7.57104E-05
0.50000  0.50199  6.75150E-05  5.89597E-05  8.83754E-05  7.71767E-05
0.50000  0.51271  8.15566E-05  7.01716E-05  7.84090E-05  6.74635E-05
0.50000  0.51301  8.37861E-05  7.22142E-05  7.81777E-05  6.73805E-05
0.50000  0.51367  8.14008E-05  6.99633E-05  7.76378E-05  6.67290E-05
0.54000  0.54066  4.25997E-05  3.70850E-05  5.89794E-05  5.13443E-05
0.54000  0.54074  4.25958E-05  3.68159E-05  5.89324E-05  5.09357E-05
0.54000  0.54793  5.32975E-05  4.57260E-05  5.44720E-05  4.67337E-05
0.54000  0.54800  5.33609E-05  4.59287E-05  5.44515E-05  4.68674E-05
0.54000  0.54801  5.32856E-05  4.59483E-05  5.44503E-05  4.69526E-05
0.58000  0.58001  2.66037E-05  2.32416E-05  3.95253E-05  3.45303E-05
0.58000  0.58004  2.66307E-05  2.32314E-05  3.95183E-05  3.44740E-05
0.58000  0.58391  3.51046E-05  3.06380E-05  3.78297E-05  3.30163E-05
0.58000  0.58405  3.49898E-05  3.05881E-05  3.77846E-05  3.30313E-05
0.58000  0.58407  3.50181E-05  3.07406E-05  3.77790E-05  3.31642E-05
0.62000  0.61959  1.64535E-05  1.44104E-05  2.65686E-05  2.32695E-05
0.62000  0.61961  1.64566E-05  1.42493E-05  2.65735E-05  2.30092E-05
0.62000  0.62170  2.29301E-05  1.99808E-05  2.59022E-05  2.25707E-05
0.62000  0.62176  2.29020E-05  1.98685E-05  2.58759E-05  2.24485E-05
0.62000  0.62181  2.29184E-05  1.98914E-05  2.58682E-05  2.24516E-05
0.66000  0.65928  1.02203E-05  8.88604E-06  1.78710E-05  1.55379E-05
0.66000  0.65947  1.02133E-05  8.86499E-06  1.78365E-05  1.54819E-05
0.66000  0.66056  1.47260E-05  1.28103E-05  1.75494E-05  1.52664E-05
0.66000  0.66071  1.47206E-05  1.27663E-05  1.75266E-05  1.51998E-05
0.66000  0.66082  1.47072E-05  1.27403E-05  1.75070E-05  1.51657E-05
0.70000  0.69895  6.40639E-06  5.74797E-06  1.19992E-05  1.07660E-05
0.70000  0.69896  6.40850E-06  5.71207E-06  1.19986E-05  1.06947E-05
0.70000  0.69996  9.34491E-06  8.40415E-06  1.18124E-05  1.06233E-05
0.70000  0.70000  9.34101E-06  8.41515E-06  1.18105E-05  1.06399E-05
0.70000  0.70011  9.31540E-06  8.45903E-06  1.17969E-05  1.07124E-05
0.74000  0.73852  4.04892E-06  3.90902E-06  8.03355E-06  7.75596E-06
0.74000  0.73853  4.05566E-06  3.78055E-06  8.03173E-06  7.48692E-06
0.74000  0.73940  5.83308E-06  5.39325E-06  7.92703E-06  7.32932E-06
0.74000  0.73942  5.83111E-06  5.41869E-06  7.92448E-06  7.36400E-06
0.74000  0.73950  5.82095E-06  5.35544E-06  7.91867E-06  7.28541E-06
0.78000  0.77831  2.57461E-06  2.47477E-06  5.33790E-06  5.13090E-06
0.78000  0.77838  2.57098E-06  2.49355E-06  5.33256E-06  5.17196E-06
0.78000  0.77918  3.59723E-06  3.46734E-06  5.27605E-06  5.08554E-06
0.78000  0.77928  3.59258E-06  3.46493E-06  5.26818E-06  5.08099E-06
0.78000  0.77945  3.58457E-06  3.47406E-06  5.25949E-06  5.09734E-06
0.82000  0.81809  1.63468E-06  1.75795E-06  3.52639E-06  3.79231E-06
0.82000  0.81810  1.63197E-06  1.74215E-06  3.52552E-06  3.76354E-06
0.82000  0.81893  2.20913E-06  2.31415E-06  3.49178E-06  3.65779E-06
0.82000  0.81910  2.20568E-06  2.29364E-06  3.48470E-06  3.62367E-06
0.82000  0.81914  2.20128E-06  2.24452E-06  3.48373E-06  3.55216E-06
0.86000  0.85769  1.03745E-06  1.29392E-06  2.31877E-06  2.89202E-06
0.86000  0.85773  1.03738E-06  1.25108E-06  2.31835E-06  2.79592E-06
0.86000  0.85877  1.35852E-06  1.57438E-06  2.29354E-06  2.65797E-06
0.86000  0.85888  1.35582E-06  1.57120E-06  2.29036E-06  2.65420E-06
0.86000  0.85889  1.35676E-06  1.57047E-06  2.29159E-06  2.65255E-06
0.90000  0.89736  6.55566E-07  9.24182E-07  1.51512E-06  2.13593E-06
0.90000  0.89747  6.55020E-07  9.26263E-07  1.51357E-06  2.14033E-06
0.90000  0.89850  8.34557E-07  1.12003E-06  1.49895E-06  2.01170E-06
0.90000  0.89853  8.34965E-07  1.12363E-06  1.49892E-06  2.01713E-06
0.90000  0.89864  8.35771E-07  1.14630E-06  1.49858E-06  2.05536E-06
0.94000  0.93715  4.13816E-07  6.90457E-07  9.83265E-07  1.64059E-06
0.94000  0.93731  4.12127E-07  6.80869E-07  9.81570E-07  1.62164E-06
0.94000  0.93824  5.14749E-07  8.35932E-07  9.74063E-07  1.58184E-06
```

0.94000	0.93832	5.15180E-07	8.46825E-07	9.73150E-07	1.59961E-06
0.94000	0.93841	5.14366E-07	8.45758E-07	9.71986E-07	1.59821E-06
0.98000	0.97691	2.58329E-07	5.34394E-07	6.35201E-07	1.31401E-06
0.98000	0.97692	2.58012E-07	5.27019E-07	6.34477E-07	1.29599E-06
0.98000	0.97811	3.16884E-07	6.43461E-07	6.27721E-07	1.27464E-06
0.98000	0.97818	3.17038E-07	6.44147E-07	6.27814E-07	1.27557E-06
0.98000	0.97827	3.16657E-07	6.45092E-07	6.27188E-07	1.27770E-06
1.02000	1.01633	1.61744E-07	4.29890E-07	4.10295E-07	1.09050E-06
1.02000	1.01662	1.61283E-07	4.35703E-07	4.08507E-07	1.10357E-06
1.02000	1.01787	1.95607E-07	5.08806E-07	4.03185E-07	1.04875E-06
1.02000	1.01789	1.95447E-07	5.06155E-07	4.03863E-07	1.04589E-06
1.02000	1.01791	1.95950E-07	5.09313E-07	4.03715E-07	1.04933E-06
1.06000	1.05549	1.01615E-07	3.45002E-07	2.65313E-07	9.00790E-07
1.06000	1.05567	1.02013E-07	3.44823E-07	2.64881E-07	8.95344E-07
1.06000	1.05767	1.20590E-07	4.00414E-07	2.58795E-07	8.59318E-07
1.06000	1.05775	1.20446E-07	3.99779E-07	2.58600E-07	8.58336E-07
1.06000	1.05780	1.20198E-07	3.98505E-07	2.58382E-07	8.56642E-07
1.10000	1.09590	6.32203E-08	2.68923E-07	1.69109E-07	7.19345E-07
1.10000	1.09658	6.22656E-08	2.66370E-07	1.67648E-07	7.17192E-07
1.10000	1.09750	7.43925E-08	3.11038E-07	1.65785E-07	6.93154E-07
1.10000	1.09754	7.44035E-08	3.11805E-07	1.65556E-07	6.93802E-07
1.10000	1.09758	7.43266E-08	3.10896E-07	1.65590E-07	6.92639E-07
1.14000	1.13440	4.00044E-08	2.14570E-07	1.10447E-07	5.92403E-07
1.14000	1.13615	3.92660E-08	2.11338E-07	1.08308E-07	5.82937E-07
1.14000	1.13727	4.64190E-08	2.40583E-07	1.06926E-07	5.54181E-07
1.14000	1.13731	4.63633E-08	2.39679E-07	1.07009E-07	5.53190E-07
1.14000	1.13732	4.63409E-08	2.39555E-07	1.06908E-07	5.52650E-07
1.18000	1.16945	2.72124E-08	1.70588E-07	7.55680E-08	4.73717E-07
1.18000	1.17129	2.60342E-08	1.65649E-07	7.40975E-08	4.71463E-07
1.18000	1.17314	3.05252E-08	1.90151E-07	7.22123E-08	4.49833E-07
1.18000	1.17315	3.04783E-08	1.89901E-07	7.21381E-08	4.49471E-07
1.18000	1.17326	3.04301E-08	1.88896E-07	7.22496E-08	4.48492E-07

```
%auto-ignore
# Misak Sargsian (MS CD-Bonn) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 45 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the MS CD-Bonn PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the MS CD-Bonn FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the MS CD-Bonn PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the MS CD-Bonn FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03147  1.75102E+00  1.68858E+00  5.52891E+00  5.33175E+00
0.06000  0.06241  4.11076E-01  3.87754E-01  1.34844E+00  1.27194E+00
0.10000  0.09921  8.32786E-02  7.56545E-02  2.89849E-01  2.63313E-01
0.14000  0.13844  1.95495E-02  1.68107E-02  7.32054E-02  6.29498E-02
0.18000  0.17838  5.58727E-03  4.48111E-03  2.21530E-02  1.77672E-02
0.22000  0.21825  1.86483E-03  1.44950E-03  7.82305E-03  6.08074E-03
0.26000  0.25782  7.13805E-04  5.34671E-04  3.15436E-03  2.36276E-03
0.30000  0.29790  3.03686E-04  2.17229E-04  1.40848E-03  1.00750E-03
0.34000  0.33797  1.45312E-04  1.12258E-04  6.98639E-04  5.39719E-04
0.38000  0.37827  7.65033E-05  6.35100E-05  3.78162E-04  3.13935E-04
0.42000  0.41804  4.37820E-05  3.91311E-05  2.21623E-04  1.98080E-04
0.42000  0.42984  1.75189E-04  1.47593E-04  1.99796E-04  1.68324E-04
0.42000  0.43176  1.72476E-04  1.46315E-04  1.95159E-04  1.65558E-04
0.46000  0.45749  2.67315E-05  2.61110E-05  1.37235E-04  1.34049E-04
0.46000  0.46616  1.08911E-04  9.60671E-05  1.31086E-04  1.15627E-04
0.46000  0.46672  1.08556E-04  9.60555E-05  1.30267E-04  1.15267E-04
0.50000  0.49769  1.68959E-05  1.82444E-05  8.72340E-05  9.41960E-05
0.50000  0.50338  7.00248E-05  6.55416E-05  8.73762E-05  8.17821E-05
0.50000  0.50342  6.98589E-05  6.50123E-05  8.73701E-05  8.13086E-05
0.54000  0.53717  1.10144E-05  1.35795E-05  5.71423E-05  7.04503E-05
0.54000  0.54169  4.54603E-05  4.53887E-05  5.85951E-05  5.85028E-05
0.54000  0.54183  4.52367E-05  4.53592E-05  5.85005E-05  5.86590E-05
0.54000  0.55082  5.44208E-05  5.24211E-05  5.30804E-05  5.11300E-05
0.54000  0.55292  5.38548E-05  5.16199E-05  5.19614E-05  4.98051E-05
0.54000  0.55327  5.36804E-05  5.19184E-05  5.17800E-05  5.00804E-05
0.58000  0.57607  7.38641E-06  1.02383E-05  3.81309E-05  5.28531E-05
0.58000  0.58074  2.96432E-05  3.08217E-05  3.93692E-05  4.09344E-05
0.58000  0.58080  2.96494E-05  3.20421E-05  3.93456E-05  4.25208E-05
0.58000  0.58594  3.63706E-05  3.65521E-05  3.72238E-05  3.74095E-05
0.58000  0.58617  3.61871E-05  3.68640E-05  3.71333E-05  3.78278E-05
0.58000  0.58675  3.58570E-05  3.60941E-05  3.69124E-05  3.71566E-05
0.62000  0.61533  5.03138E-06  7.69795E-06  2.55648E-05  3.91138E-05
0.62000  0.62006  1.93230E-05  2.30817E-05  2.65154E-05  3.16733E-05
0.62000  0.62014  1.93258E-05  2.25698E-05  2.64913E-05  3.09381E-05
0.62000  0.62354  2.37057E-05  2.59372E-05  2.55464E-05  2.79511E-05
0.62000  0.62355  2.37819E-05  2.59816E-05  2.55382E-05  2.79003E-05
0.62000  0.62367  2.36949E-05  2.59660E-05  2.55120E-05  2.79574E-05
0.66000  0.65135  3.52268E-06  6.29310E-06  1.77347E-05  3.16822E-05
0.66000  0.65942  1.26123E-05  1.65008E-05  1.78581E-05  2.33638E-05
0.66000  0.65966  1.25912E-05  1.64164E-05  1.78153E-05  2.32275E-05
0.66000  0.66198  1.56262E-05  1.86801E-05  1.73794E-05  2.07758E-05
0.66000  0.66203  1.56256E-05  1.87672E-05  1.73700E-05  2.08625E-05
0.66000  0.66209  1.56168E-05  1.88871E-05  1.73627E-05  2.09986E-05
0.70000  0.68032  2.78109E-06  5.42160E-06  1.33966E-05  2.61159E-05
0.70000  0.69900  8.18064E-06  1.17966E-05  1.19867E-05  1.72849E-05
0.70000  0.69923  8.16480E-06  1.15999E-05  1.19567E-05  1.69871E-05
0.70000  0.70112  1.02233E-05  1.39136E-05  1.17244E-05  1.59566E-05
0.70000  0.70115  1.02215E-05  1.39565E-05  1.17182E-05  1.60000E-05
0.70000  0.70116  1.02181E-05  1.38005E-05  1.17185E-05  1.58269E-05
0.74000  0.73897  5.27174E-06  8.75425E-06  7.97903E-06  1.32500E-05
0.74000  0.73906  5.25487E-06  8.75463E-06  7.97297E-06  1.32830E-05
0.74000  0.74029  6.67626E-06  1.01261E-05  7.87553E-06  1.19451E-05
0.74000  0.74038  6.66676E-06  1.01616E-05  7.86842E-06  1.19932E-05
0.74000  0.74045  6.66372E-06  1.02381E-05  7.86289E-06  1.20805E-05
0.78000  0.77875  3.39548E-06  6.33288E-06  5.30088E-06  9.88663E-06
0.78000  0.77880  3.39487E-06  6.42957E-06  5.29833E-06  1.00346E-05
0.78000  0.77979  4.33319E-06  7.50920E-06  5.24818E-06  9.09483E-06
0.78000  0.77983  4.33043E-06  7.56680E-06  5.24443E-06  9.16389E-06
0.78000  0.77985  4.32318E-06  7.54662E-06  5.24374E-06  9.15355E-06
0.82000  0.81856  2.17781E-06  4.94394E-06  3.49844E-06  7.94198E-06
0.82000  0.81865  2.17808E-06  4.93743E-06  3.49391E-06  7.92026E-06
0.82000  0.81941  2.79319E-06  5.81642E-06  3.47091E-06  7.22768E-06
0.82000  0.81946  2.78846E-06  5.84092E-06  3.46845E-06  7.26527E-06
0.82000  0.81958  2.78680E-06  5.80274E-06  3.46432E-06  7.21350E-06
0.86000  0.85836  1.39222E-06  3.87949E-06  2.29392E-06  6.39213E-06
0.86000  0.85837  1.39224E-06  3.76732E-06  2.29611E-06  6.21314E-06
0.86000  0.85912  1.78310E-06  4.60960E-06  2.27909E-06  5.89181E-06
0.86000  0.85916  1.78210E-06  4.58683E-06  2.27849E-06  5.86445E-06
0.86000  0.85933  1.77942E-06  4.55733E-06  2.27343E-06  5.82256E-06
0.90000  0.89814  8.89487E-07  3.11452E-06  1.49588E-06  5.23780E-06
0.90000  0.89823  8.88764E-07  3.14188E-06  1.49484E-06  5.28442E-06
0.90000  0.89880  1.13474E-06  3.48904E-06  1.48762E-06  4.57406E-06
0.90000  0.89880  1.13627E-06  3.57702E-06  1.48773E-06  4.68343E-06
0.90000  0.89887  1.13555E-06  3.43308E-06  1.48618E-06  4.49313E-06
0.94000  0.93788  5.68477E-07  2.23986E-06  9.70205E-07  3.82271E-06
0.94000  0.93807  5.66859E-07  2.36124E-06  9.67449E-07  4.02989E-06
0.94000  0.93849  7.19491E-07  2.66459E-06  9.64464E-07  3.57182E-06
```

0.94000	0.93861	7.19389E-07	2.68348E-06	9.63649E-07	3.59462E-06
0.94000	0.93867	7.17754E-07	2.64454E-06	9.62729E-07	3.54714E-06
0.98000	0.97769	3.62275E-07	1.76753E-06	6.24885E-07	3.04880E-06
0.98000	0.97787	3.61652E-07	1.73074E-06	6.23511E-07	2.98390E-06
0.98000	0.97838	4.52589E-07	2.40843E-06	6.20465E-07	3.30177E-06
0.98000	0.97839	4.52427E-07	2.27296E-06	6.20236E-07	3.11601E-06
0.98000	0.97855	4.51309E-07	2.17666E-06	6.19569E-07	2.98817E-06
1.02000	1.01762	2.31552E-07	1.43411E-06	4.00333E-07	2.47945E-06
1.02000	1.01771	2.29186E-07	1.29466E-06	3.99183E-07	2.25497E-06
1.02000	1.01813	2.84507E-07	1.50159E-06	3.98097E-07	2.10110E-06
1.02000	1.01816	2.84531E-07	1.55999E-06	3.98030E-07	2.18227E-06
1.02000	1.01816	2.84208E-07	1.48383E-06	3.97602E-07	2.07585E-06
1.06000	1.05717	1.47144E-07	1.00512E-06	2.56553E-07	1.75248E-06
1.06000	1.05722	1.47439E-07	9.97699E-07	2.56348E-07	1.73467E-06
1.06000	1.05796	1.78006E-07	1.11233E-06	2.54590E-07	1.59090E-06
1.06000	1.05802	1.77499E-07	1.05938E-06	2.54323E-07	1.51790E-06
1.06000	1.05808	1.77221E-07	1.10589E-06	2.53881E-07	1.58425E-06
1.10000	1.09708	9.40423E-08	7.90121E-07	1.63728E-07	1.37560E-06
1.10000	1.09732	9.31524E-08	7.25989E-07	1.63400E-07	1.27347E-06
1.10000	1.09769	1.11126E-07	8.11129E-07	1.63069E-07	1.19027E-06
1.10000	1.09769	1.11166E-07	8.11869E-07	1.63079E-07	1.19100E-06
1.10000	1.09775	1.11010E-07	8.01164E-07	1.62667E-07	1.17398E-06
1.14000	1.13612	6.05744E-08	5.28268E-07	1.06284E-07	9.26901E-07
1.14000	1.13685	5.98924E-08	5.34524E-07	1.05223E-07	9.39090E-07
1.14000	1.13739	7.01445E-08	5.58128E-07	1.04743E-07	8.33419E-07
1.14000	1.13741	6.99811E-08	5.54255E-07	1.04787E-07	8.29918E-07
1.14000	1.13750	6.98276E-08	5.54152E-07	1.04508E-07	8.29372E-07
1.18000	1.17279	3.99917E-08	3.66982E-07	7.11693E-08	6.53082E-07
1.18000	1.17283	4.01551E-08	3.64943E-07	7.11236E-08	6.46395E-07
1.18000	1.17310	4.64345E-08	4.03385E-07	7.07914E-08	6.14978E-07
1.18000	1.17315	4.63937E-08	4.01584E-07	7.06620E-08	6.11650E-07
1.18000	1.17318	4.61476E-08	3.91167E-07	7.06419E-08	5.98791E-07

```
%auto-ignore
# Misak Sargsian (MS CD-Bonn) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 75 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the MS CD-Bonn PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the MS CD-Bonn FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the MS CD-Bonn PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the MS CD-Bonn FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03205  1.72176E+00  1.66664E+00  5.39199E+00  5.21937E+00
0.06000  0.06131  4.55347E-01  4.26271E-01  1.41602E+00  1.32560E+00
0.10000  0.09788  9.85173E-02  8.74637E-02  3.04556E-01  2.70385E-01
0.14000  0.13715  2.45342E-02  1.87976E-02  7.62037E-02  5.83857E-02
0.18000  0.17692  7.36943E-03  4.42289E-03  2.30558E-02  1.38373E-02
0.22000  0.21724  2.56754E-03  1.51935E-03  8.02525E-03  4.74897E-03
0.26000  0.25809  1.01354E-03  5.39317E-04  3.14172E-03  1.67174E-03
0.30000  0.29969  4.48684E-04  3.70751E-04  1.36634E-03  1.12901E-03
0.34000  0.33965  2.29204E-04  2.96104E-04  6.82747E-04  8.82028E-04
0.38000  0.37969  1.28441E-04  2.90369E-04  3.73021E-04  8.43300E-04
0.42000  0.41934  7.75968E-05  2.77027E-04  2.19946E-04  7.85227E-04
0.46000  0.45863  4.96562E-05  1.85513E-04  1.36984E-04  5.11766E-04
0.50000  0.49812  3.27029E-05  1.26696E-04  8.80318E-05  3.41049E-04
0.54000  0.53763  2.21357E-05  9.54254E-05  5.77717E-05  2.49049E-04
0.58000  0.57688  1.52295E-05  6.38151E-05  3.85276E-05  1.61439E-04
0.62000  0.61586  1.06805E-05  4.42772E-05  2.59343E-05  1.07514E-04
0.66000  0.65361  7.64850E-06  2.52247E-05  1.77221E-05  5.84473E-05
0.70000  0.69332  5.39647E-06  1.42834E-05  1.18904E-05  3.14715E-05
0.74000  0.73493  3.69232E-06  8.53436E-06  7.77737E-06  1.79765E-05
```

```
%auto-ignore
# Misak Sargsian (MS V18) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 35 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the MS AV18 PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the MS AV18 FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the MS AV18 PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the MS AV18 FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03181  1.71444E+00  1.65388E+00  5.44341E+00  5.25114E+00
0.06000  0.06217  4.09962E-01  3.86748E-01  1.35829E+00  1.28138E+00
0.10000  0.09914  7.98064E-02  7.29603E-02  2.87913E-01  2.63214E-01
0.14000  0.13875  1.77170E-02  1.57921E-02  7.10444E-02  6.33256E-02
0.18000  0.17780  4.96525E-03  4.28778E-03  2.17092E-02  1.87472E-02
0.22000  0.21766  1.61913E-03  1.35171E-03  7.51210E-03  6.27137E-03
0.26000  0.25754  6.08032E-04  5.01188E-04  2.97523E-03  2.45242E-03
0.30000  0.29743  2.63496E-04  2.24154E-04  1.35529E-03  1.15293E-03
0.34000  0.33737  1.32560E-04  1.15569E-04  7.12056E-04  6.20788E-04
0.38000  0.37612  7.75410E-05  6.96844E-05  4.31259E-04  3.87563E-04
0.38000  0.39338  3.39878E-04  2.96889E-04  3.67096E-04  3.20665E-04
0.38000  0.39347  3.35814E-04  2.92700E-04  3.67227E-04  3.20080E-04
0.42000  0.41497  5.02469E-05  4.59858E-05  2.85706E-04  2.61478E-04
0.42000  0.42805  2.22856E-04  1.95269E-04  2.63388E-04  2.30784E-04
0.42000  0.42917  2.19194E-04  1.93334E-04  2.60816E-04  2.30047E-04
0.46000  0.45276  3.51714E-05  3.30166E-05  2.02673E-04  1.90256E-04
0.46000  0.46410  1.54918E-04  1.37530E-04  1.93861E-04  1.72102E-04
0.46000  0.46429  1.54466E-04  1.40507E-04  1.93550E-04  1.76059E-04
0.50000  0.48805  2.58138E-05  2.45780E-05  1.51081E-04  1.43848E-04
0.50000  0.50187  1.09957E-04  9.55057E-05  1.43921E-04  1.25006E-04
0.50000  0.50199  1.09845E-04  9.67782E-05  1.43784E-04  1.26680E-04
0.50000  0.51271  1.37014E-04  1.18741E-04  1.31726E-04  1.14158E-04
0.50000  0.51301  1.40899E-04  1.22547E-04  1.31468E-04  1.14344E-04
0.50000  0.51367  1.37136E-04  1.18855E-04  1.30796E-04  1.13360E-04
0.54000  0.54066  7.74255E-05  6.68231E-05  1.07196E-04  9.25168E-05
0.54000  0.54074  7.74284E-05  6.65623E-05  1.07124E-04  9.20905E-05
0.54000  0.54793  9.88710E-05  8.43591E-05  1.01050E-04  8.62181E-05
0.54000  0.54800  9.90031E-05  8.47048E-05  1.01027E-04  8.64361E-05
0.54000  0.54801  9.88672E-05  8.47362E-05  1.01028E-04  8.65882E-05
0.58000  0.58001  5.36728E-05  4.55168E-05  7.97422E-05  6.76247E-05
0.58000  0.58004  5.37252E-05  4.55249E-05  7.97248E-05  6.75561E-05
0.58000  0.58391  7.15907E-05  6.05423E-05  7.71481E-05  6.52421E-05
0.58000  0.58405  7.13602E-05  6.04425E-05  7.70601E-05  6.52704E-05
0.58000  0.58407  7.14217E-05  6.05642E-05  7.70525E-05  6.53391E-05
0.62000  0.61959  3.66040E-05  3.03474E-05  5.91069E-05  4.90040E-05
0.62000  0.61961  3.66018E-05  3.01059E-05  5.91030E-05  4.86138E-05
0.62000  0.62170  5.12870E-05  4.23746E-05  5.79347E-05  4.78671E-05
0.62000  0.62176  5.12559E-05  4.22617E-05  5.79116E-05  4.77496E-05
0.62000  0.62181  5.12817E-05  4.22125E-05  5.78822E-05  4.76456E-05
0.66000  0.65928  2.49127E-05  1.98761E-05  4.35617E-05  3.47548E-05
0.66000  0.65947  2.49091E-05  1.98600E-05  4.35016E-05  3.46837E-05
0.66000  0.66056  3.60384E-05  2.89343E-05  4.29481E-05  3.44819E-05
0.66000  0.66071  3.60322E-05  2.88745E-05  4.29006E-05  3.43785E-05
0.66000  0.66082  3.60107E-05  2.87706E-05  4.28661E-05  3.42476E-05
0.70000  0.69895  1.70297E-05  1.34296E-05  3.18968E-05  2.51538E-05
0.70000  0.69896  1.70362E-05  1.33737E-05  3.18966E-05  2.50395E-05
0.70000  0.69996  2.49220E-05  1.96644E-05  3.15026E-05  2.48567E-05
0.70000  0.70000  2.49121E-05  1.96711E-05  3.14981E-05  2.48715E-05
0.70000  0.70011  2.48479E-05  1.96690E-05  3.14669E-05  2.49084E-05
0.74000  0.73852  1.16861E-05  9.12462E-06  2.31867E-05  1.81043E-05
0.74000  0.73853  1.17061E-05  9.02941E-06  2.31825E-05  1.78816E-05
0.74000  0.73940  1.68781E-05  1.29966E-05  2.29369E-05  1.76621E-05
0.74000  0.73942  1.68774E-05  1.30321E-05  2.29363E-05  1.77106E-05
0.74000  0.73950  1.68474E-05  1.29539E-05  2.29187E-05  1.76221E-05
0.78000  0.77831  8.04322E-06  5.95983E-06  1.66759E-05  1.23564E-05
0.78000  0.77838  8.03642E-06  5.96712E-06  1.66686E-05  1.23766E-05
0.78000  0.77918  1.12646E-05  8.45488E-06  1.65218E-05  1.24007E-05
0.78000  0.77928  1.12562E-05  8.45602E-06  1.65061E-05  1.23999E-05
0.78000  0.77945  1.12345E-05  8.43516E-06  1.64838E-05  1.23766E-05
0.82000  0.81809  5.50832E-06  4.07838E-06  1.18827E-05  8.79804E-06
0.82000  0.81810  5.50023E-06  4.06476E-06  1.18821E-05  8.78105E-06
0.82000  0.81893  7.46050E-06  5.45761E-06  1.17922E-05  8.62640E-06
0.82000  0.81910  7.45378E-06  5.43974E-06  1.17761E-05  8.59412E-06
0.82000  0.81914  7.43866E-06  5.37363E-06  1.17724E-05  8.50427E-06
0.86000  0.85769  3.75694E-06  2.77367E-06  8.39705E-06  6.19936E-06
0.86000  0.85773  3.75543E-06  2.76103E-06  8.39264E-06  6.17035E-06
0.86000  0.85877  4.93427E-06  3.53763E-06  8.33035E-06  5.97245E-06
0.86000  0.85888  4.92589E-06  3.53040E-06  8.32123E-06  5.96386E-06
0.86000  0.85889  4.92642E-06  3.53012E-06  8.32082E-06  5.96243E-06
0.90000  0.89736  2.53964E-06  1.85363E-06  5.86952E-06  4.28403E-06
0.90000  0.89747  2.53767E-06  1.85108E-06  5.86383E-06  4.27733E-06
0.90000  0.89850  3.24214E-06  2.32856E-06  5.82322E-06  4.18232E-06
0.90000  0.89853  3.24365E-06  2.33272E-06  5.82296E-06  4.18767E-06
0.90000  0.89864  3.24440E-06  2.34691E-06  5.81737E-06  4.20812E-06
0.94000  0.93715  1.70539E-06  1.24839E-06  4.05216E-06  2.96629E-06
0.94000  0.93731  1.69918E-06  1.24125E-06  4.04696E-06  2.95632E-06
0.94000  0.93824  2.12633E-06  1.54661E-06  4.02367E-06  2.92665E-06
```

0.94000	0.93832	2.12780E-06	1.55392E-06	4.01932E-06	2.93528E-06
0.94000	0.93841	2.12558E-06	1.55235E-06	4.01666E-06	2.93344E-06
0.98000	0.97691	1.12410E-06	8.57985E-07	2.76402E-06	2.10968E-06
0.98000	0.97692	1.12388E-06	8.48815E-07	2.76373E-06	2.08732E-06
0.98000	0.97811	1.38248E-06	1.04413E-06	2.73857E-06	2.06833E-06
0.98000	0.97818	1.38219E-06	1.04423E-06	2.73708E-06	2.06784E-06
0.98000	0.97827	1.38085E-06	1.04356E-06	2.73498E-06	2.06692E-06
1.02000	1.01633	7.35142E-07	6.12860E-07	1.86483E-06	1.55464E-06
1.02000	1.01662	7.33923E-07	6.12719E-07	1.85892E-06	1.55193E-06
1.02000	1.01787	8.91700E-07	7.35773E-07	1.83797E-06	1.51657E-06
1.02000	1.01789	8.89526E-07	7.33805E-07	1.83807E-06	1.51630E-06
1.02000	1.01791	8.91704E-07	7.35850E-07	1.83717E-06	1.51607E-06
1.06000	1.05549	4.75315E-07	4.42051E-07	1.24104E-06	1.15418E-06
1.06000	1.05567	4.76747E-07	4.40670E-07	1.23789E-06	1.14421E-06
1.06000	1.05767	5.64763E-07	5.16929E-07	1.21202E-06	1.10937E-06
1.06000	1.05775	5.64182E-07	5.16459E-07	1.21132E-06	1.10885E-06
1.06000	1.05780	5.63206E-07	5.15372E-07	1.21069E-06	1.10786E-06
1.10000	1.09590	2.98533E-07	3.19665E-07	7.98549E-07	8.55077E-07
1.10000	1.09658	2.94235E-07	3.16145E-07	7.92216E-07	8.51208E-07
1.10000	1.09750	3.51559E-07	3.72361E-07	7.83456E-07	8.29813E-07
1.10000	1.09754	3.51930E-07	3.72628E-07	7.83084E-07	8.29140E-07
1.10000	1.09758	3.51287E-07	3.71938E-07	7.82625E-07	8.28632E-07
1.14000	1.13440	1.85739E-07	2.40268E-07	5.12804E-07	6.63352E-07
1.14000	1.13615	1.82132E-07	2.36357E-07	5.02377E-07	6.51947E-07
1.14000	1.13727	2.14571E-07	2.72138E-07	4.94263E-07	6.26866E-07
1.14000	1.13731	2.14078E-07	2.70953E-07	4.94103E-07	6.25371E-07
1.14000	1.13732	2.14165E-07	2.71151E-07	4.94076E-07	6.25543E-07
1.18000	1.16945	1.20458E-07	1.88700E-07	3.34508E-07	5.24013E-07
1.18000	1.17129	1.14900E-07	1.80865E-07	3.27023E-07	5.14771E-07
1.18000	1.17314	1.34826E-07	2.08105E-07	3.18952E-07	4.92305E-07
1.18000	1.17315	1.34560E-07	2.07741E-07	3.18486E-07	4.91696E-07
1.18000	1.17326	1.34041E-07	2.06649E-07	3.18250E-07	4.90642E-07

```
%auto-ignore
# Misak Sargsian (MS V18) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 45 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the MS AV18 PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the MS AV18 FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the MS AV18 PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the MS AV18 FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03147  1.74847E+00  1.68792E+00  5.52085E+00  5.32967E+00
0.06000  0.06241  4.09473E-01  3.86985E-01  1.34318E+00  1.26941E+00
0.10000  0.09921  8.24478E-02  7.51865E-02  2.86957E-01  2.61684E-01
0.14000  0.13844  1.91319E-02  1.65647E-02  7.16415E-02  6.20286E-02
0.18000  0.17838  5.37278E-03  4.35827E-03  2.13025E-02  1.72801E-02
0.22000  0.21825  1.75917E-03  1.39155E-03  7.37981E-03  5.83763E-03
0.26000  0.25782  6.67218E-04  5.15993E-04  2.94849E-03  2.28022E-03
0.30000  0.29790  2.89042E-04  2.20277E-04  1.34056E-03  1.02163E-03
0.34000  0.33797  1.46636E-04  1.22714E-04  7.05006E-04  5.89991E-04
0.38000  0.37827  8.50870E-05  7.69094E-05  4.20592E-04  3.80169E-04
0.42000  0.41804  5.48303E-05  5.26848E-05  2.77549E-04  2.66689E-04
0.42000  0.42984  2.27819E-04  2.03912E-04  2.59818E-04  2.32553E-04
0.42000  0.43176  2.25690E-04  2.02301E-04  2.55371E-04  2.28906E-04
0.46000  0.45749  3.79176E-05  3.85534E-05  1.94662E-04  1.97927E-04
0.46000  0.46616  1.58827E-04  1.45332E-04  1.91165E-04  1.74922E-04
0.46000  0.46672  1.58591E-04  1.45850E-04  1.90309E-04  1.75020E-04
0.50000  0.49769  2.71140E-05  2.88293E-05  1.39990E-04  1.48846E-04
0.50000  0.50338  1.14380E-04  1.06743E-04  1.42722E-04  1.33193E-04
0.50000  0.50342  1.14095E-04  1.07242E-04  1.42695E-04  1.34123E-04
0.54000  0.53717  1.98085E-05  2.21412E-05  1.02766E-04  1.14868E-04
0.54000  0.54169  8.28115E-05  7.91461E-05  1.06738E-04  1.02014E-04
0.54000  0.54183  8.24592E-05  7.95774E-05  1.06637E-04  1.02910E-04
0.54000  0.55082  1.01697E-04  9.44537E-05  9.91918E-05  9.21273E-05
0.54000  0.55292  1.01221E-04  9.34698E-05  9.76624E-05  9.01837E-05
0.54000  0.55327  1.00986E-04  9.40880E-05  9.74112E-05  9.07570E-05
0.58000  0.57607  1.47384E-05  1.73192E-05  7.60839E-05  8.94072E-05
0.58000  0.58074  5.98957E-05  5.68649E-05  7.95475E-05  7.55223E-05
0.58000  0.58080  5.99210E-05  5.79761E-05  7.95170E-05  7.69361E-05
0.58000  0.58594  7.44917E-05  6.93050E-05  7.62391E-05  7.09307E-05
0.58000  0.58617  7.41679E-05  6.91163E-05  7.61071E-05  7.09235E-05
0.58000  0.58675  7.36130E-05  6.83826E-05  7.57799E-05  7.03955E-05
0.62000  0.61533  1.10681E-05  1.30643E-05  5.62376E-05  6.63804E-05
0.62000  0.62006  4.30119E-05  4.33787E-05  5.90219E-05  5.95251E-05
0.62000  0.62014  4.30276E-05  4.25912E-05  5.89812E-05  5.83830E-05
0.62000  0.62354  5.32242E-05  5.07223E-05  5.73568E-05  5.46606E-05
0.62000  0.62355  5.34028E-05  5.05990E-05  5.73467E-05  5.43358E-05
0.62000  0.62367  5.32145E-05  5.07758E-05  5.72955E-05  5.46698E-05
0.66000  0.65135  8.42765E-06  1.05025E-05  4.24285E-05  5.28742E-05
0.66000  0.65942  3.07502E-05  3.14285E-05  4.35399E-05  4.45003E-05
0.66000  0.65966  3.07185E-05  3.12707E-05  4.34634E-05  4.42447E-05
0.66000  0.66198  3.83370E-05  3.71315E-05  4.26381E-05  4.12973E-05
0.66000  0.66203  3.83365E-05  3.72327E-05  4.26165E-05  4.13895E-05
0.66000  0.66209  3.83195E-05  3.73834E-05  4.26036E-05  4.15629E-05
0.70000  0.68032  7.09940E-06  9.00451E-06  3.41979E-05  4.33748E-05
0.70000  0.69900  2.17420E-05  2.24863E-05  3.18575E-05  3.29480E-05
0.70000  0.69923  2.17123E-05  2.22450E-05  3.17958E-05  3.25758E-05
0.70000  0.70112  2.73075E-05  2.73720E-05  3.13172E-05  3.13912E-05
0.70000  0.70115  2.73050E-05  2.74304E-05  3.13030E-05  3.14468E-05
0.70000  0.70116  2.72997E-05  2.71343E-05  3.13083E-05  3.11186E-05
0.74000  0.73897  1.52302E-05  1.62089E-05  2.30517E-05  2.45329E-05
0.74000  0.73906  1.51830E-05  1.63379E-05  2.30364E-05  2.47887E-05
0.74000  0.74029  1.93429E-05  1.95948E-05  2.28176E-05  2.31146E-05
0.74000  0.74038  1.93159E-05  1.94986E-05  2.27976E-05  2.30132E-05
0.74000  0.74045  1.93105E-05  1.93732E-05  2.27855E-05  2.28595E-05
0.78000  0.77875  1.06126E-05  1.14765E-05  1.65680E-05  1.79166E-05
0.78000  0.77880  1.06102E-05  1.15406E-05  1.65593E-05  1.80113E-05
0.78000  0.77979  1.35747E-05  1.40874E-05  1.64411E-05  1.70621E-05
0.78000  0.77983  1.35700E-05  1.41776E-05  1.64342E-05  1.71700E-05
0.78000  0.77985  1.35457E-05  1.40355E-05  1.64300E-05  1.70241E-05
0.82000  0.81856  7.34359E-06  8.51248E-06  1.17968E-05  1.36745E-05
0.82000  0.81865  7.34632E-06  8.52749E-06  1.17844E-05  1.36792E-05
0.82000  0.81941  9.43451E-06  1.03429E-05  1.17237E-05  1.28524E-05
0.82000  0.81946  9.42217E-06  1.03789E-05  1.17199E-05  1.29099E-05
0.82000  0.81958  9.41679E-06  1.02901E-05  1.17062E-05  1.27918E-05
0.86000  0.85836  5.04631E-06  6.31053E-06  8.31465E-06  1.03977E-05
0.86000  0.85837  5.04087E-06  6.14666E-06  8.31352E-06  1.01372E-05
0.86000  0.85912  6.47141E-06  7.70926E-06  8.27149E-06  9.85366E-06
0.86000  0.85916  6.46691E-06  7.68873E-06  8.26822E-06  9.83035E-06
0.86000  0.85933  6.46177E-06  7.73207E-06  8.25571E-06  9.87868E-06
0.90000  0.89814  3.44888E-06  4.78655E-06  5.80012E-06  8.04972E-06
0.90000  0.89823  3.44511E-06  4.80243E-06  5.79444E-06  8.07735E-06
0.90000  0.89880  4.40418E-06  5.49550E-06  5.77380E-06  7.20450E-06
0.90000  0.89880  4.40985E-06  5.64905E-06  5.77386E-06  7.39636E-06
0.90000  0.89887  4.40851E-06  5.43907E-06  5.76974E-06  7.11852E-06
0.94000  0.93788  2.34358E-06  3.38043E-06  3.99973E-06  5.76930E-06
0.94000  0.93807  2.33861E-06  3.46939E-06  3.99126E-06  5.92115E-06
0.94000  0.93849  2.97013E-06  4.05693E-06  3.98141E-06  5.43823E-06
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0.94000	0.93861	2.96933E-06	4.00403E-06	3.97753E-06	5.36355E-06
0.94000	0.93867	2.96366E-06	4.00767E-06	3.97518E-06	5.37552E-06
0.98000	0.97769	1.57616E-06	2.51593E-06	2.71872E-06	4.33971E-06
0.98000	0.97787	1.57426E-06	2.45801E-06	2.71412E-06	4.23777E-06
0.98000	0.97838	1.97204E-06	3.40137E-06	2.70352E-06	4.66302E-06
0.98000	0.97839	1.97197E-06	3.22843E-06	2.70339E-06	4.42588E-06
0.98000	0.97855	1.96627E-06	3.08358E-06	2.69935E-06	4.23322E-06
1.02000	1.01762	1.05228E-06	1.91739E-06	1.81929E-06	3.31499E-06
1.02000	1.01771	1.04373E-06	1.74345E-06	1.81791E-06	3.03665E-06
1.02000	1.01813	1.29429E-06	2.07229E-06	1.81103E-06	2.89965E-06
1.02000	1.01816	1.29379E-06	2.11090E-06	1.80989E-06	2.95293E-06
1.02000	1.01816	1.29423E-06	2.04788E-06	1.81061E-06	2.86494E-06
1.06000	1.05717	6.88696E-07	1.30768E-06	1.20078E-06	2.28001E-06
1.06000	1.05722	6.90410E-07	1.29053E-06	1.20039E-06	2.24380E-06
1.06000	1.05796	8.32879E-07	1.49013E-06	1.19121E-06	2.13123E-06
1.06000	1.05802	8.30766E-07	1.41319E-06	1.19034E-06	2.02484E-06
1.06000	1.05808	8.30471E-07	1.45934E-06	1.18970E-06	2.09060E-06
1.10000	1.09708	4.44403E-07	9.92164E-07	7.73706E-07	1.72736E-06
1.10000	1.09732	4.40133E-07	9.20059E-07	7.72044E-07	1.61389E-06
1.10000	1.09769	5.24161E-07	1.02801E-06	7.69165E-07	1.50852E-06
1.10000	1.09769	5.24289E-07	1.02966E-06	7.69122E-07	1.51049E-06
1.10000	1.09775	5.24047E-07	1.02311E-06	7.67906E-07	1.49921E-06
1.14000	1.13612	2.80304E-07	6.54393E-07	4.91823E-07	1.14820E-06
1.14000	1.13685	2.77539E-07	6.66869E-07	4.87600E-07	1.17160E-06
1.14000	1.13739	3.24721E-07	6.85239E-07	4.84886E-07	1.02323E-06
1.14000	1.13741	3.23558E-07	6.78027E-07	4.84482E-07	1.01525E-06
1.14000	1.13750	3.23397E-07	6.78429E-07	4.84013E-07	1.01537E-06
1.18000	1.17279	1.76337E-07	4.37416E-07	3.13809E-07	7.78427E-07
1.18000	1.17283	1.76999E-07	4.35301E-07	3.13504E-07	7.71015E-07
1.18000	1.17310	2.05134E-07	4.82374E-07	3.12736E-07	7.35401E-07
1.18000	1.17315	2.05062E-07	4.81898E-07	3.12329E-07	7.33976E-07
1.18000	1.17318	2.03920E-07	4.64754E-07	3.12157E-07	7.11436E-07

```
%auto-ignore
# Misak Sargsian (MS V18) theoretical cross sections and reduced cross sections as a function of missing momentum
#
# theta_nq = 75 (deg)
#
# header definitions
#
# pm_bin               : missig momentum bin center (GeV/c) (bin width from center is +/- 0.02 GeV)
# pm_avg               : average missing momentum over pm_bin (GeV/c)
# theory_pwbaXsec      : theoretical cross section using the MS AV18 PWBA model ( nb / (MeV Sr^2) )
# theory_fsiXsec       : theoretical cross section using the MS AV18 FSI model ( nb / (MeV Sr^2) )
# theory_red_pwbaXsec  : theoretical reduced cross section using the MS AV18 PWBA model (fm^3)
# theory_red_fsiXsec   : theoretical reduced cross section using the MS AV18 FSI model (fm^3)
#
# common values for pm_bin indicate kinematic settings that contribute to the same missing momentum bin and are used in averaging
#
#! pm_bin[f,0]/ pm_avg[f,1]/ theory_pwbaXsec[f,2]/ theory_fsiXsec[f,3]/  theory_red_pwbaXsec[f,4]/ theory_red_fsiXsec[f,5]/
0.02000  0.03205  1.71920E+00  1.66595E+00  5.38399E+00  5.21722E+00
0.06000  0.06131  4.53628E-01  4.25514E-01  1.41068E+00  1.32325E+00
0.10000  0.09788  9.75627E-02  8.69389E-02  3.01605E-01  2.68762E-01
0.14000  0.13715  2.40213E-02  1.85128E-02  7.46107E-02  5.75012E-02
0.18000  0.17692  7.09137E-03  4.28830E-03  2.21859E-02  1.34163E-02
0.22000  0.21724  2.42286E-03  1.45278E-03  7.57303E-03  4.54089E-03
0.26000  0.25809  9.47232E-04  5.30584E-04  2.93617E-03  1.64467E-03
0.30000  0.29969  4.27644E-04  3.88215E-04  1.30227E-03  1.18220E-03
0.34000  0.33965  2.31975E-04  3.29108E-04  6.91001E-04  9.80339E-04
0.38000  0.37969  1.43338E-04  3.23584E-04  4.16287E-04  9.39763E-04
0.42000  0.41934  9.75225E-05  3.04458E-04  2.76425E-04  8.62980E-04
0.46000  0.45863  7.06501E-05  2.15782E-04  1.94899E-04  5.95268E-04
0.50000  0.49812  5.25237E-05  1.56224E-04  1.41386E-04  4.20532E-04
0.54000  0.53763  3.98448E-05  1.14785E-04  1.03990E-04  2.99576E-04
0.58000  0.57688  3.04437E-05  7.80922E-05  7.70166E-05  1.97558E-04
0.62000  0.61586  2.35225E-05  5.38713E-05  5.71172E-05  1.30810E-04
0.66000  0.65361  1.83946E-05  3.39777E-05  4.26216E-05  7.87286E-05
0.70000  0.69332  1.41753E-05  2.10133E-05  3.12333E-05  4.62999E-05
0.74000  0.73493  1.05828E-05  1.36093E-05  2.22911E-05  2.86660E-05
```