

```

%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 5.001e-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 5.001e-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 5.001e-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 5.001e-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 4.285e-06 12.329 10598.659 1618.382 2647.483 -0.87718 2174.752 619.594 620.000 35.721 2.656e-05 6.863e-06 0.95116 4.306e-05
14 3.140 2.285e-05 4.285e-06 4.285e-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 4.285e-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 4.285e-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 4.285e-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

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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

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%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
12 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
13 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
14 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
15 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
16 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
17 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
18 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
19 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
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23 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
24 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
25 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
26 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
27 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
28 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
29 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
30 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
31 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
32 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
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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	-0.84893	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	2804.400	-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

```

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%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
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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
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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
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0.70000 0.70115 2.58719E-05 3.05656E-05 2.98121E-05 3.50411E-05
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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
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0.78000 0.77880 9.39792E-06 1.29077E-05 1.50310E-05 2.01448E-05
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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

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%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

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# 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 1.67730E+00 1.62330E+00 5.32348E+00 5.15210E+00
0.06000 0.06217 4.01630E-01 3.81550E-01 1.33006E+00 1.26356E+00
0.10000 0.09914 7.85410E-02 7.25940E-02 2.83152E-01 2.61712E-01
0.14000 0.13875 1.76070E-02 1.58060E-02 7.05256E-02 6.33116E-02
0.18000 0.17780 5.02040E-03 4.39750E-03 2.19150E-02 1.91959E-02
0.22000 0.21766 1.68210E-03 1.44290E-03 7.78973E-03 6.68201E-03
0.26000 0.25754 6.52820E-04 5.51440E-04 3.18843E-03 2.69328E-03
0.30000 0.29743 2.92590E-04 2.43990E-04 1.50185E-03 1.25239E-03
0.34000 0.33737 1.51340E-04 1.24410E-04 8.11220E-04 6.66869E-04
0.38000 0.37612 9.00150E-05 7.28180E-05 4.99611E-04 4.04162E-04
0.46000 0.46410 1.71300E-04 1.34940E-04 2.14471E-04 1.68948E-04
0.46000 0.46429 1.70810E-04 1.34510E-04 2.14137E-04 1.68629E-04
0.50000 0.50187 1.23440E-04 9.53460E-05 1.61638E-04 1.24851E-04
0.50000 0.50199 1.23340E-04 9.52610E-05 1.61514E-04 1.24745E-04
0.54000 0.54066 8.96310E-05 6.78760E-05 1.24144E-04 9.40119E-05
0.54000 0.54074 8.96530E-05 6.78860E-05 1.24079E-04 9.39538E-05
0.58000 0.58001 6.41120E-05 4.75160E-05 9.52799E-05 7.06158E-05
0.58000 0.58004 6.41770E-05 4.75680E-05 9.52659E-05 7.06111E-05
0.58000 0.58405 8.59640E-05 6.45940E-05 9.28702E-05 6.97834E-05
0.58000 0.58407 8.60370E-05 6.46540E-05 9.28570E-05 6.97790E-05
0.62000 0.61959 4.46700E-05 3.22530E-05 7.21508E-05 5.20949E-05
0.62000 0.61961 4.46640E-05 3.22500E-05 7.21394E-05 5.20888E-05
0.62000 0.62170 6.30150E-05 4.64400E-05 7.12085E-05 5.24784E-05
0.62000 0.62176 6.29760E-05 4.64080E-05 7.11800E-05 5.24537E-05
0.62000 0.62181 6.30160E-05 4.64390E-05 7.11497E-05 5.24331E-05
0.66000 0.65928 3.07200E-05 2.15220E-05 5.37290E-05 3.76418E-05
0.66000 0.65947 3.07130E-05 2.15160E-05 5.36492E-05 3.75839E-05
0.66000 0.66071 4.47240E-05 3.21930E-05 5.32661E-05 3.83418E-05
0.66000 0.66082 4.46960E-05 3.21730E-05 5.32223E-05 3.83104E-05
0.70000 0.69895 2.10330E-05 1.42420E-05 3.94005E-05 2.66792E-05
0.70000 0.69896 2.10380E-05 1.42460E-05 3.93947E-05 2.66763E-05
0.70000 0.69996 3.09830E-05 2.16790E-05 3.91754E-05 2.74113E-05
0.70000 0.70000 3.09670E-05 2.16660E-05 3.91641E-05 2.74011E-05
0.70000 0.70011 3.08880E-05 2.16070E-05 3.91271E-05 2.73705E-05
0.74000 0.73852 1.43630E-05 9.36140E-06 2.85014E-05 1.85764E-05
0.74000 0.73853 1.43900E-05 9.37880E-06 2.85009E-05 1.85757E-05
0.74000 0.73940 2.08610E-05 1.41380E-05 2.83551E-05 1.92169E-05

```

0.74000	0.73942	2.08570E-05	1.41350E-05	2.83509E-05	1.92137E-05
0.74000	0.73950	2.08210E-05	1.41080E-05	2.83301E-05	1.91961E-05
0.78000	0.77831	9.80760E-06	6.13960E-06	2.03343E-05	1.27294E-05
0.78000	0.77918	1.37860E-05	9.01760E-06	2.02238E-05	1.32286E-05
0.78000	0.77928	1.37770E-05	9.01170E-06	2.02059E-05	1.32169E-05
0.78000	0.77945	1.37490E-05	8.99120E-06	2.01766E-05	1.31945E-05
0.82000	0.81809	6.65640E-06	3.99440E-06	1.43596E-05	8.61697E-06
0.82000	0.81810	6.64610E-06	3.98710E-06	1.43573E-05	8.61318E-06
0.82000	0.81893	9.03020E-06	5.70140E-06	1.42750E-05	9.01282E-06
0.82000	0.81911	9.02060E-06	5.69540E-06	1.42536E-05	8.99942E-06
0.82000	0.81914	9.00210E-06	5.68200E-06	1.42485E-05	8.99347E-06
0.86000	0.85770	4.49690E-06	2.59420E-06	1.00509E-05	5.79821E-06
0.86000	0.85773	4.49620E-06	2.59290E-06	1.00478E-05	5.79441E-06
0.86000	0.85877	5.90260E-06	3.61070E-06	9.96562E-06	6.09611E-06
0.86000	0.85888	5.89280E-06	3.60440E-06	9.95544E-06	6.08936E-06
0.86000	0.85889	5.89340E-06	3.60480E-06	9.95523E-06	6.08929E-06
0.90000	0.89850	3.84580E-06	2.29710E-06	6.90768E-06	4.12597E-06
0.90000	0.89853	3.84670E-06	2.29780E-06	6.90587E-06	4.12517E-06
0.90000	0.89864	3.84730E-06	2.29850E-06	6.89890E-06	4.12163E-06
0.94000	0.93824	2.51710E-06	1.49210E-06	4.76344E-06	2.82370E-06
0.94000	0.93832	2.51960E-06	1.49390E-06	4.75951E-06	2.82197E-06
0.94000	0.93841	2.51660E-06	1.49200E-06	4.75575E-06	2.81951E-06
0.98000	0.97811	1.64870E-06	9.91320E-07	3.26594E-06	1.96373E-06
1.02000	1.01790	1.08310E-06	7.33950E-07	2.23255E-06	1.51286E-06
1.02000	1.01790	1.08020E-06	7.31440E-07	2.23212E-06	1.51144E-06
1.06000	1.05770	7.08100E-07	5.40490E-07	1.51967E-06	1.15996E-06
1.06000	1.05770	7.07280E-07	5.40030E-07	1.51846E-06	1.15939E-06
1.14000	1.13730	3.03760E-07	3.10760E-07	6.99755E-07	7.15880E-07
1.14000	1.13730	3.03050E-07	3.10530E-07	6.99433E-07	7.16696E-07
1.14000	1.13730	3.03170E-07	3.10600E-07	6.99418E-07	7.16560E-07
1.18000	1.17330	2.08090E-07	2.46980E-07	4.94065E-07	5.86402E-07

```

# 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 1.71110E+00 1.65500E+00 5.39968E+00 5.22264E+00
0.06000 0.06241 4.01400E-01 3.79800E-01 1.31614E+00 1.24531E+00
0.10000 0.09921 8.12780E-02 7.42930E-02 2.82694E-01 2.58399E-01
0.14000 0.13844 1.90750E-02 1.67470E-02 7.13667E-02 6.26568E-02
0.18000 0.17838 5.46180E-03 4.60310E-03 2.16289E-02 1.82284E-02
0.22000 0.21825 1.83830E-03 1.49920E-03 7.70234E-03 6.28153E-03
0.26000 0.25782 7.20440E-04 5.78060E-04 3.17946E-03 2.55110E-03
0.30000 0.29790 3.22580E-04 2.59000E-04 1.49395E-03 1.19949E-03
0.34000 0.33797 1.67930E-04 1.36340E-04 8.06344E-04 6.54660E-04
0.38000 0.37827 9.88750E-05 8.12010E-05 4.88162E-04 4.00903E-04
0.42000 0.43176 2.49170E-04 2.03910E-04 2.82091E-04 2.30851E-04
0.46000 0.45750 4.49880E-05 3.70000E-05 2.30671E-04 1.89713E-04
0.46000 0.46672 1.74340E-04 1.42440E-04 2.09308E-04 1.71009E-04
0.50000 0.50338 1.27570E-04 1.04000E-04 1.59239E-04 1.29818E-04
0.50000 0.50342 1.27240E-04 1.03730E-04 1.59194E-04 1.29780E-04
0.54000 0.54169 9.51700E-05 7.21390E-05 1.22714E-04 9.30175E-05
0.54000 0.54183 9.47640E-05 7.18190E-05 1.22596E-04 9.29120E-05
0.58000 0.58074 7.10470E-05 5.46890E-05 9.43852E-05 7.26537E-05
0.58000 0.58080 7.10720E-05 5.47540E-05 9.43484E-05 7.26862E-05
0.58000 0.58617 8.87680E-05 7.02970E-05 9.11203E-05 7.21598E-05
0.62000 0.62006 5.21830E-05 4.05910E-05 7.16267E-05 5.57154E-05
0.62000 0.62014 5.22100E-05 4.06410E-05 7.15872E-05 5.57245E-05
0.62000 0.62355 6.51130E-05 5.12340E-05 6.99463E-05 5.50371E-05
0.66000 0.65942 3.77760E-05 2.95810E-05 5.35040E-05 4.18971E-05
0.66000 0.65966 3.77340E-05 2.95650E-05 5.34024E-05 4.18414E-05
0.66000 0.66198 4.72150E-05 3.70080E-05 5.25291E-05 4.11733E-05
0.66000 0.66203 4.72190E-05 3.69980E-05 5.25099E-05 4.11436E-05
0.66000 0.66209 4.71910E-05 3.69860E-05 5.24831E-05 4.11337E-05
0.70000 0.69900 2.68070E-05 2.10060E-05 3.92891E-05 3.07870E-05
0.70000 0.69923 2.67720E-05 2.09900E-05 3.92157E-05 3.07462E-05
0.70000 0.70112 3.37010E-05 2.57790E-05 3.86595E-05 2.95719E-05
0.70000 0.70115 3.37020E-05 2.58090E-05 3.86472E-05 2.95960E-05
0.70000 0.70116 3.36910E-05 2.57650E-05 3.86506E-05 2.95579E-05
0.74000 0.73897 1.87200E-05 1.46400E-05 2.83403E-05 2.21636E-05
0.74000 0.73906 1.86610E-05 1.45540E-05 2.83192E-05 2.20866E-05
0.74000 0.74029 2.37720E-05 1.83660E-05 2.80507E-05 2.16717E-05
0.74000 0.74038 2.37410E-05 1.83560E-05 2.80285E-05 2.16710E-05
0.74000 0.74045 2.37340E-05 1.83450E-05 2.80133E-05 2.16526E-05
0.78000 0.77875 1.29530E-05 1.00920E-05 2.02260E-05 1.57586E-05
0.78000 0.77880 1.29520E-05 1.01050E-05 2.02182E-05 1.57740E-05
0.78000 0.77979 1.65580E-05 1.29240E-05 2.00598E-05 1.56573E-05
0.78000 0.77983 1.65540E-05 1.29150E-05 2.00530E-05 1.56449E-05
0.78000 0.77985 1.65250E-05 1.28930E-05 2.00496E-05 1.56430E-05
0.82000 0.81855 8.88780E-06 6.90920E-06 1.42800E-05 1.11010E-05

```

0.82000	0.81865	8.89310E-06	6.91540E-06	1.42684E-05	1.10953E-05
0.82000	0.81940	1.14100E-05	8.99620E-06	1.41825E-05	1.11822E-05
0.82000	0.81946	1.13940E-05	8.97800E-06	1.41760E-05	1.11701E-05
0.82000	0.81958	1.13890E-05	8.97710E-06	1.41619E-05	1.11628E-05
0.86000	0.85836	6.05440E-06	4.71310E-06	9.97727E-06	7.76689E-06
0.86000	0.85837	6.04790E-06	4.70960E-06	9.97597E-06	7.76846E-06
0.86000	0.85912	7.75520E-06	6.16530E-06	9.91530E-06	7.88255E-06
0.86000	0.85916	7.75040E-06	6.15640E-06	9.91134E-06	7.87290E-06
0.86000	0.85933	7.74340E-06	6.15340E-06	9.89567E-06	7.86373E-06
0.90000	0.89814	4.11170E-06	3.25070E-06	6.91606E-06	5.46782E-06
0.90000	0.89823	4.10750E-06	3.24880E-06	6.90976E-06	5.46523E-06
0.90000	0.89880	5.24490E-06	4.21270E-06	6.87744E-06	5.52395E-06
0.90000	0.89880	5.25150E-06	4.22360E-06	6.87743E-06	5.53128E-06
0.90000	0.89887	5.25030E-06	4.22550E-06	6.87333E-06	5.53173E-06
0.94000	0.93808	2.78930E-06	2.29330E-06	4.76138E-06	3.91470E-06
0.94000	0.93849	3.53920E-06	2.90960E-06	4.74523E-06	3.90109E-06
0.94000	0.93861	3.53760E-06	2.91000E-06	4.73995E-06	3.89904E-06
0.94000	0.93867	3.53100E-06	2.90080E-06	4.73742E-06	3.89190E-06
0.98000	0.97769	1.89720E-06	1.68840E-06	3.27316E-06	2.91293E-06
0.98000	0.97787	1.89490E-06	1.68810E-06	3.26735E-06	2.91077E-06
0.98000	0.97838	2.37240E-06	2.02930E-06	3.25328E-06	2.78279E-06
0.98000	0.97855	2.36510E-06	2.02100E-06	3.24774E-06	2.77523E-06
1.02000	1.01760	1.29180E-06	1.34350E-06	2.23380E-06	2.32320E-06
1.02000	1.01770	1.28120E-06	1.31060E-06	2.23192E-06	2.28313E-06
1.02000	1.01810	1.58900E-06	1.47180E-06	2.22398E-06	2.05995E-06
1.02000	1.01820	1.58880E-06	1.47500E-06	2.22323E-06	2.06399E-06
1.02000	1.01820	1.58870E-06	1.47300E-06	2.22312E-06	2.06122E-06
1.06000	1.05720	8.74160E-07	1.13360E-06	1.52443E-06	1.97686E-06
1.06000	1.05720	8.76160E-07	1.14810E-06	1.52359E-06	1.99647E-06
1.06000	1.05800	1.05520E-06	1.12550E-06	1.51219E-06	1.61294E-06
1.10000	1.09710	5.93370E-07	1.09490E-06	1.03325E-06	1.90658E-06
1.10000	1.09730	5.87610E-07	1.05760E-06	1.03091E-06	1.85547E-06
1.10000	1.09770	6.99980E-07	9.31550E-07	1.02744E-06	1.36734E-06
1.10000	1.09770	7.00160E-07	9.32060E-07	1.02736E-06	1.36763E-06
1.10000	1.09770	7.00560E-07	9.36250E-07	1.02681E-06	1.37225E-06
1.14000	1.13680	3.99160E-07	1.09430E-06	7.01418E-07	1.92294E-06
1.14000	1.13740	4.67180E-07	8.65040E-07	6.97789E-07	1.29204E-06
1.14000	1.13740	4.65820E-07	8.54740E-07	6.97681E-07	1.28019E-06
1.14000	1.13750	4.65600E-07	8.55880E-07	6.96999E-07	1.28124E-06
1.18000	1.17310	3.23970E-07	8.52730E-07	4.94054E-07	1.30041E-06
1.18000	1.17310	3.24120E-07	8.56710E-07	4.93750E-07	1.30508E-06

```

# Sabine Jeschonnek, J.W.V.Orderen, 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 1.68340E+00 1.62400E+00 5.26922E+00 5.08329E+00
0.06000 0.06131 4.45500E-01 4.16720E-01 1.38477E+00 1.29531E+00
0.10000 0.09788 9.65160E-02 8.43950E-02 2.98244E-01 2.60789E-01
0.14000 0.13715 2.40660E-02 1.87940E-02 7.47143E-02 5.83471E-02
0.18000 0.17693 7.24470E-03 4.81630E-03 2.26564E-02 1.50620E-02
0.22000 0.21724 2.54500E-03 1.39970E-03 7.95121E-03 4.37301E-03
0.26000 0.25809 1.02830E-03 5.08580E-04 3.18586E-03 1.57567E-03
0.30000 0.29969 4.79170E-04 2.80910E-04 1.45845E-03 8.55008E-04
0.34000 0.33965 2.65440E-04 2.27770E-04 7.90281E-04 6.78128E-04
0.38000 0.37969 1.65290E-04 2.06610E-04 4.79822E-04 5.99770E-04
0.42000 0.41934 1.12480E-04 1.83200E-04 3.18665E-04 5.19021E-04
0.46000 0.45863 8.19360E-05 1.54510E-04 2.25938E-04 4.26060E-04
0.50000 0.49812 6.23290E-05 1.24480E-04 1.67706E-04 3.34933E-04
0.54000 0.53763 4.90340E-05 9.62720E-05 1.27926E-04 2.51166E-04
0.58000 0.57688 3.87700E-05 7.10590E-05 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

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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
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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

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%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

```

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%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
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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 1.45800E-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

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