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

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