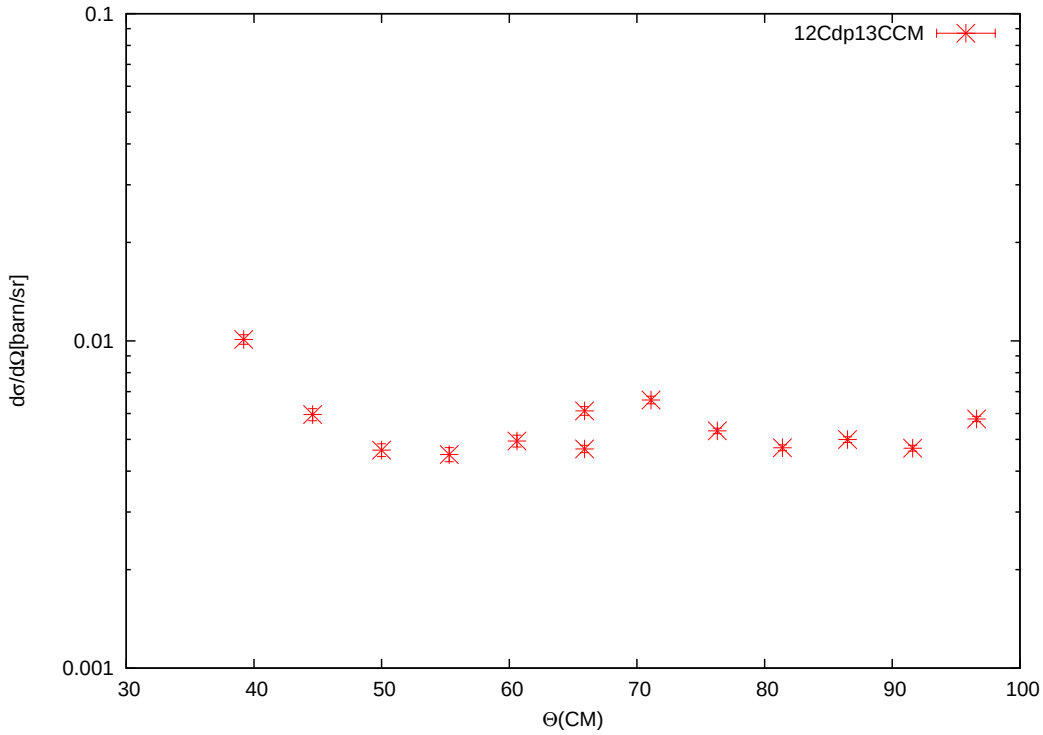
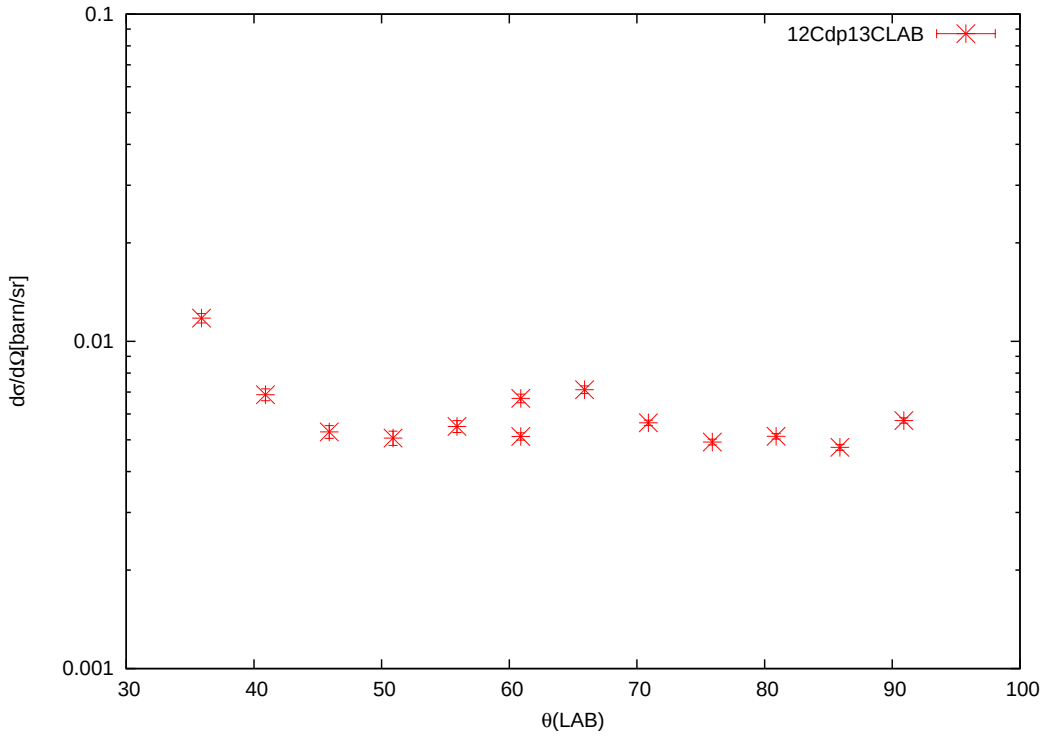
Cross Section CH2table

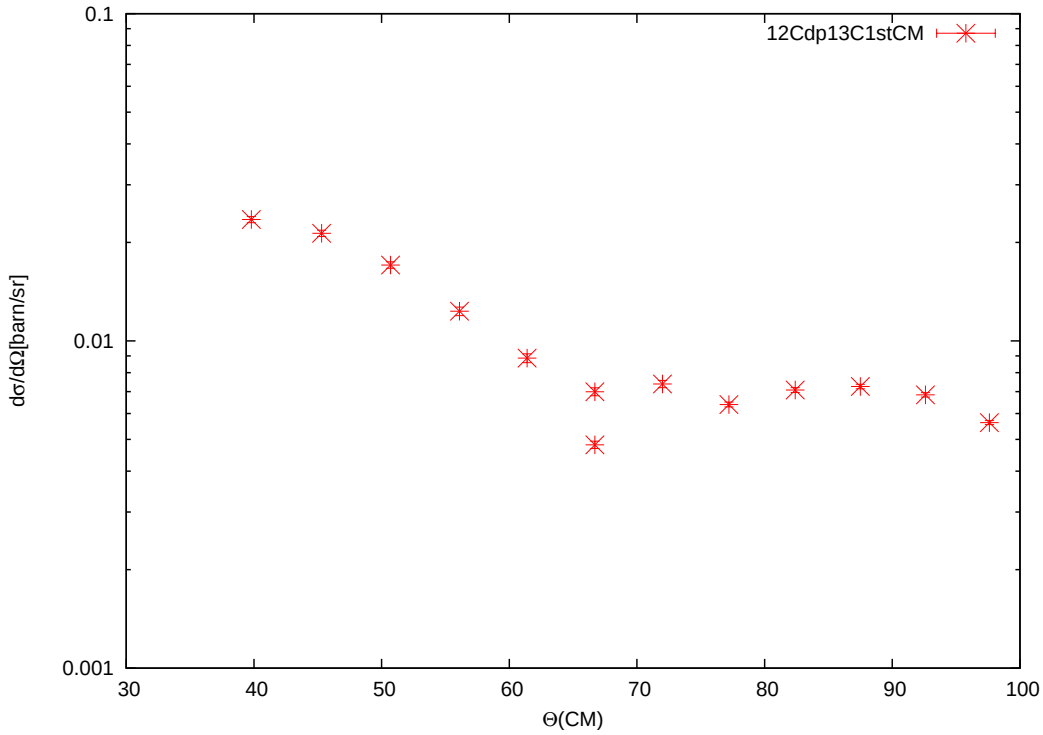

12Cdp13CCM
0.1
0.01
0.001
dσ/dΩ[barn/sr]
30
40
50
60
70
80
90
100
Θ(CM)

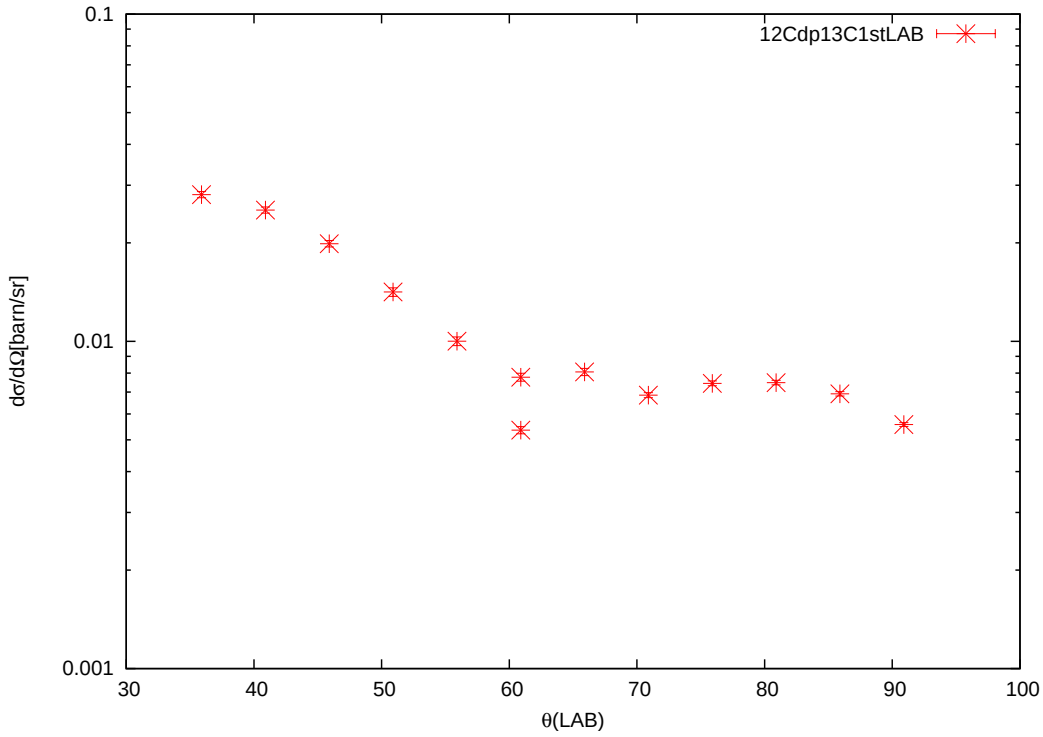

12Cdp13CLAB
0.1
0.01
0.001
dσ/dΩ[barn/sr]
30
40
50
60
70
80
90
100
θ(LAB)

12Cdp13C cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 0.00, Q-value = 2.72

run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	8.869e+02	1.988e+03	35.9	1.177e-02	3.953e-04	39.2	1.010e-02	3.391e-04
0204	5.620e+02	2.158e+03	40.9	6.871e-03	2.898e-04	44.6	5.956e-03	2.512e-04
0206	4.988e+02	2.488e+03	45.9	5.290e-03	2.368e-04	50.0	4.638e-03	2.077e-04
0207	4.035e+02	2.103e+03	50.9	5.062e-03	2.520e-04	55.3	4.495e-03	2.238e-04
0208	5.747e+02	2.759e+03	55.9	5.496e-03	2.293e-04	60.6	4.946e-03	2.063e-04
0209	1.454e+03	7.489e+03	60.9	5.123e-03	1.343e-04	65.9	4.677e-03	1.227e-04
0210	1.076e+03	4.243e+03	60.9	6.691e-03	2.040e-04	65.9	6.109e-03	1.863e-04
0211	1.400e+03	5.190e+03	65.9	7.117e-03	1.902e-04	71.1	6.598e-03	1.763e-04
0212	2.727e+03	1.277e+04	70.9	5.636e-03	1.079e-04	76.3	5.308e-03	1.017e-04
0212	2.382e+03	1.277e+04	75.9	4.923e-03	1.009e-04	81.4	4.714e-03	9.658e-05
0212	2.481e+03	1.277e+04	80.9	5.127e-03	1.029e-04	86.5	4.993e-03	1.002e-04
0212	2.296e+03	1.277e+04	85.9	4.745e-03	9.903e-05	91.6	4.701e-03	9.811e-05
0212	2.772e+03	1.277e+04	90.9	5.729e-03	1.088e-04	96.6	5.775e-03	1.097e-04

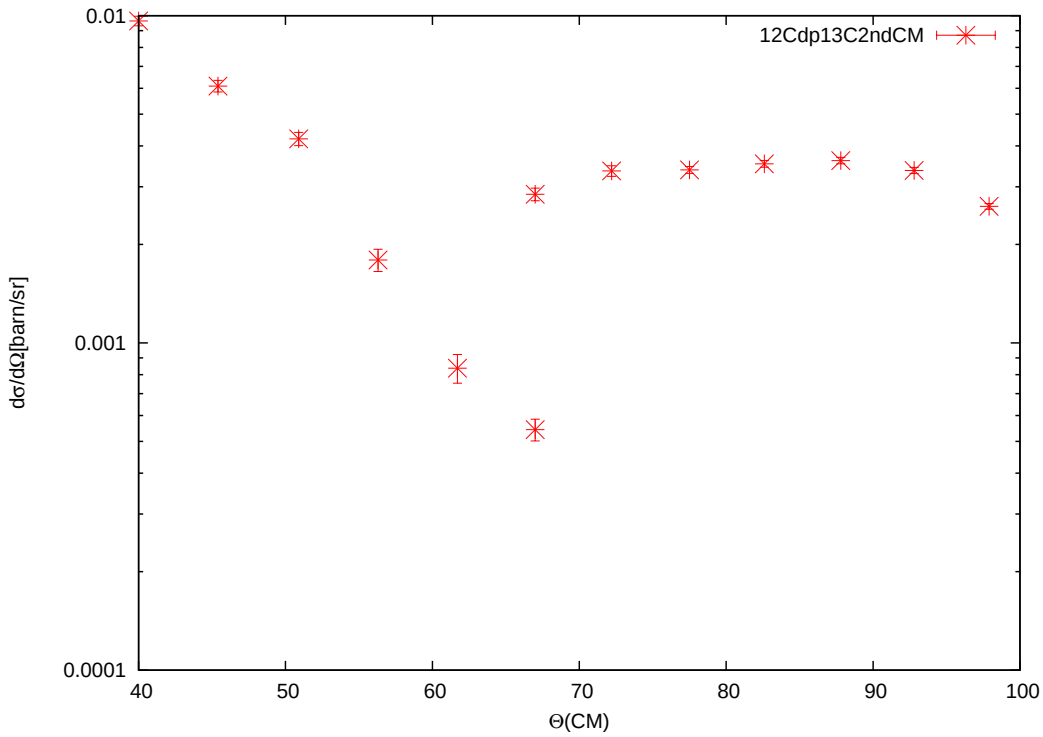

12Cdp13C1stCM
0.1
0.01
0.001
30
40
50
60
70
80
90
100
dσ/dΩ[barn/sr]
Θ(CM)

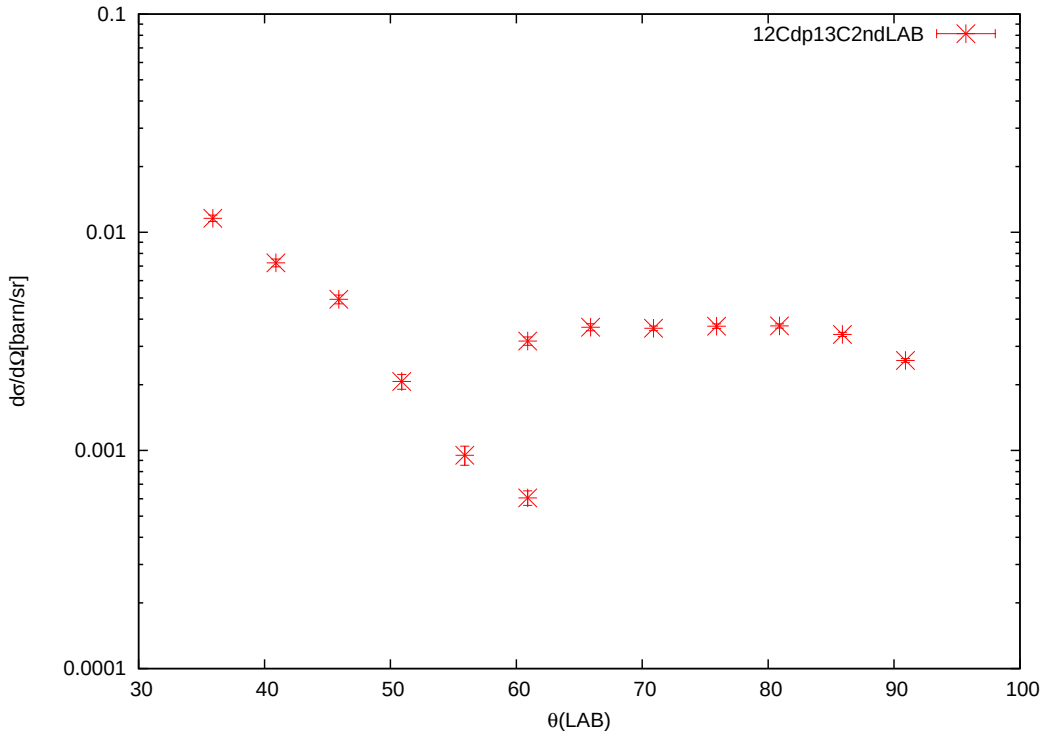

12Cdp13C1stLAB
0.1
0.01
0.001
30
40
50
60
70
80
90
100
dσ/dΩ[barn/sr]
θ(LAB)

12Cdp13C1st cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 3.09, Q-value = 2.72

run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	2.116e+03	1.988e+03	35.9	2.808e-02	6.105e-04	39.8	2.349e-02	5.107e-04
0204	2.060e+03	2.158e+03	40.9	2.519e-02	5.549e-04	45.3	2.132e-02	4.698e-04
0206	1.875e+03	2.488e+03	45.9	1.988e-02	4.592e-04	50.7	1.706e-02	3.941e-04
0207	1.128e+03	2.103e+03	50.9	1.415e-02	4.214e-04	56.1	1.232e-02	3.669e-04
0208	1.047e+03	2.759e+03	55.9	1.001e-02	3.094e-04	61.4	8.858e-03	2.738e-04
0209	1.519e+03	7.489e+03	60.9	5.352e-03	1.373e-04	66.7	4.815e-03	1.235e-04
0210	1.250e+03	4.243e+03	60.9	7.773e-03	2.199e-04	66.7	6.994e-03	1.978e-04
0211	1.586e+03	5.190e+03	65.9	8.063e-03	2.025e-04	72.0	7.385e-03	1.854e-04
0212	3.315e+03	1.277e+04	70.9	6.851e-03	1.190e-04	77.2	6.393e-03	1.110e-04
0213	3.470e+03	1.230e+04	75.9	7.442e-03	1.263e-04	82.4	7.079e-03	1.202e-04
0214	3.873e+03	1.366e+04	80.9	7.479e-03	1.202e-04	87.5	7.257e-03	1.166e-04
0215	4.279e+03	1.634e+04	85.9	6.912e-03	1.057e-04	92.6	6.843e-03	1.046e-04
0216	5.353e+03	2.536e+04	90.9	5.570e-03	7.613e-05	97.6	5.629e-03	7.693e-05

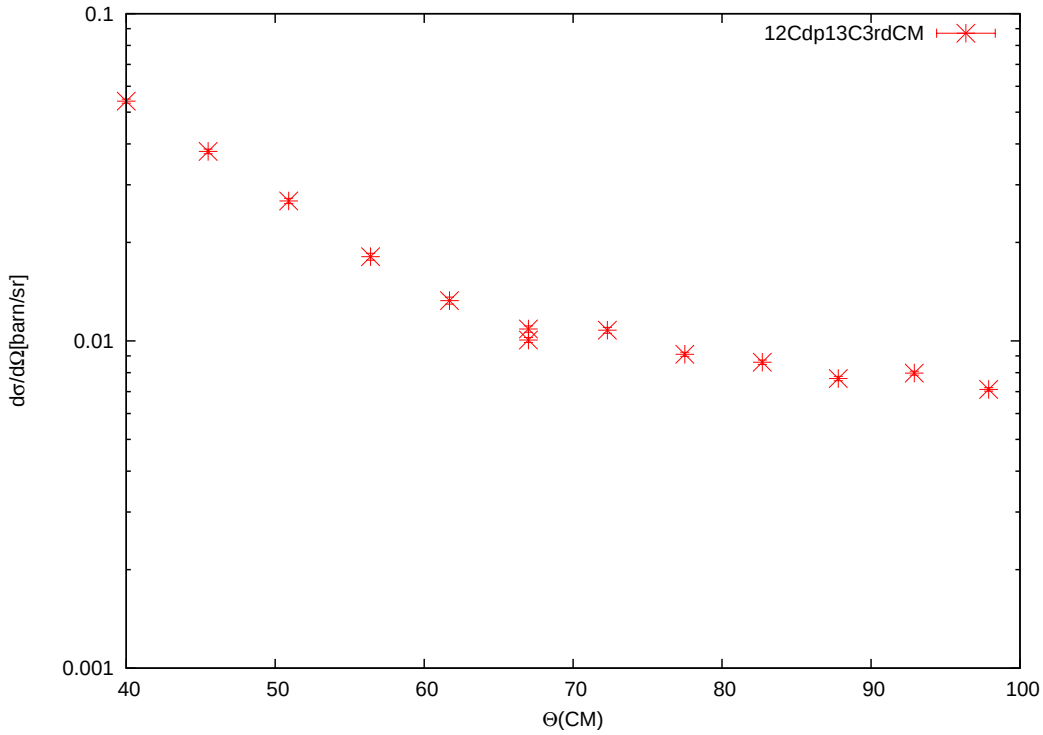

12Cdp13C2ndCM
0.01
0.001
0.0001
40
50
60
70
80
90
100
dσ/dΩ[barn/sr]
Θ(CM)

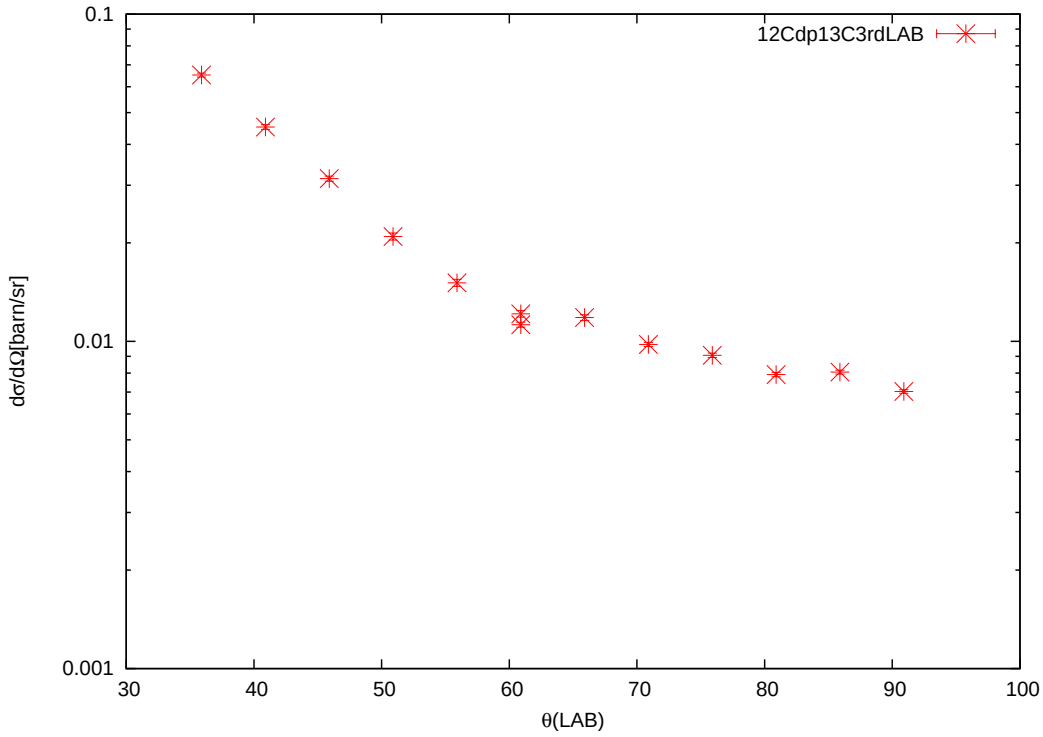

12Cdp13C2ndLAB
0.1
0.01
0.001
0.0001
30
40
50
60
70
80
90
100
dσ/dΩ[barn/sr]
θ(LAB)

12Cdp13C2nd cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 3.68, Q-value = 2.72

run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	8.733e+02	1.988e+03	35.9	1.159e-02	3.922e-04	40.0	9.633e-03	3.260e-04
0204	5.922e+02	2.158e+03	40.9	7.241e-03	2.975e-04	45.4	6.094e-03	2.504e-04
0206	4.645e+02	2.488e+03	45.9	4.926e-03	2.286e-04	50.9	4.204e-03	1.950e-04
0207	1.649e+02	2.103e+03	50.9	2.069e-03	1.611e-04	56.3	1.793e-03	1.396e-04
0208	9.940e+01	2.759e+03	55.9	9.506e-04	9.534e-05	61.7	8.373e-04	8.398e-05
0209	1.720e+02	7.489e+03	60.9	6.060e-04	4.621e-05	67.0	5.432e-04	4.142e-05
0210	5.104e+02	4.243e+03	60.9	3.174e-03	1.405e-04	67.0	2.845e-03	1.259e-04
0211	7.224e+02	5.190e+03	65.9	3.673e-03	1.366e-04	72.2	3.353e-03	1.248e-04
0212	1.756e+03	1.277e+04	70.9	3.629e-03	8.660e-05	77.5	3.378e-03	8.062e-05
0213	1.731e+03	1.230e+04	75.9	3.712e-03	8.923e-05	82.6	3.526e-03	8.474e-05
0214	1.927e+03	1.366e+04	80.9	3.721e-03	8.477e-05	87.8	3.607e-03	8.218e-05
0215	2.105e+03	1.634e+04	85.9	3.400e-03	7.411e-05	92.8	3.366e-03	7.337e-05
0216	2.483e+03	2.536e+04	90.9	2.584e-03	5.185e-05	97.9	2.613e-03	5.243e-05

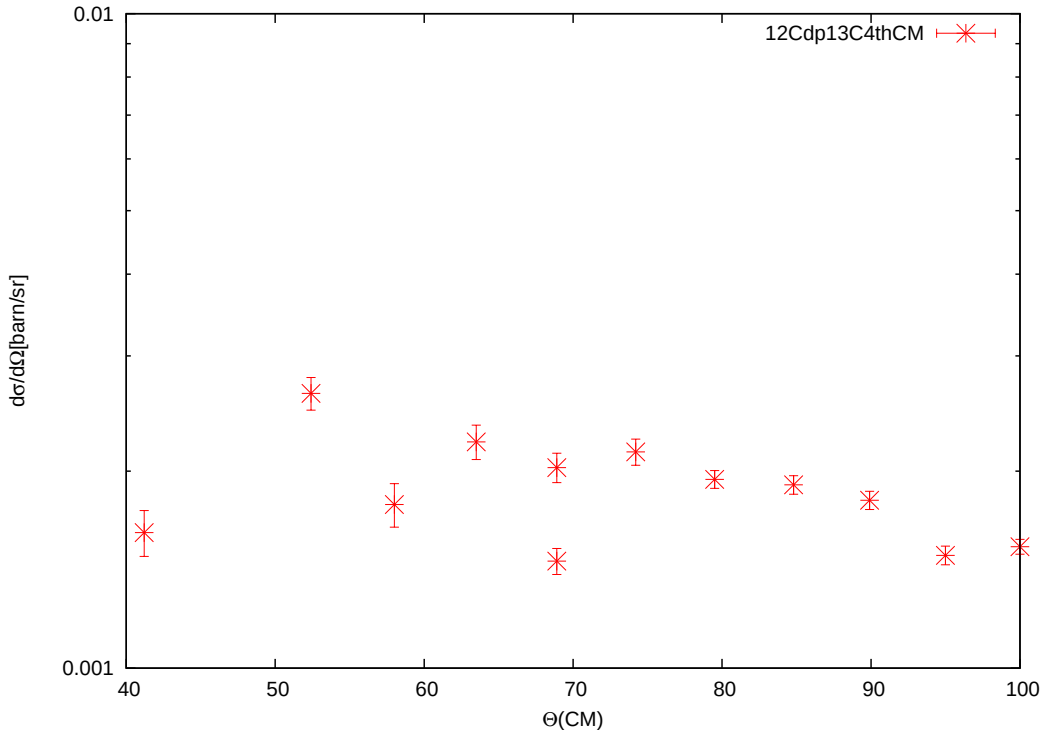

12Cdp13C3rdCM
0.1
0.01
0.001
dσ/dΩ[barn/sr]
40
50
60
70
80
90
100
Θ(CM)

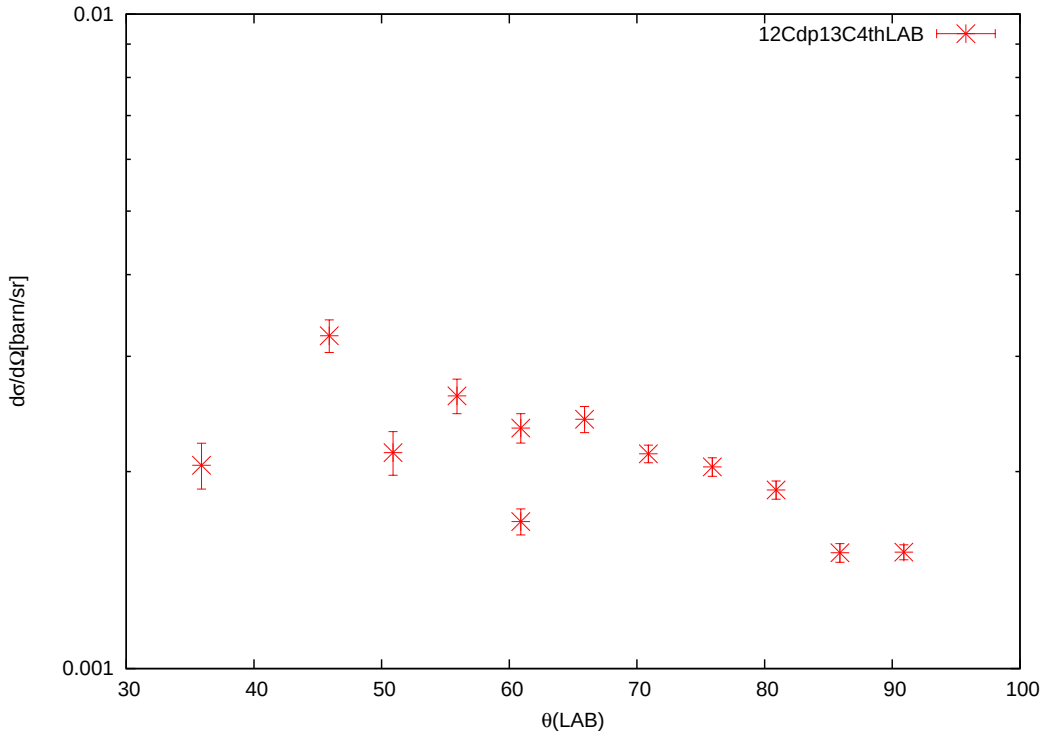

12Cdp13C3rdLAB
0.1
0.01
0.001
dσ/dΩ[barn/sr]
30
40
50
60
70
80
90
100
θ(LAB)

12Cdp13C3rd cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 3.85, Q-value = 2.72

run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	4.909e+03	1.988e+03	35.9	6.515e-02	9.299e-04	40.0	5.404e-02	7.713e-04
0204	3.695e+03	2.158e+03	40.9	4.518e-02	7.432e-04	45.5	3.795e-02	6.243e-04
0206	2.963e+03	2.488e+03	45.9	3.142e-02	5.773e-04	50.9	2.677e-02	4.918e-04
0207	1.667e+03	2.103e+03	50.9	2.091e-02	5.123e-04	56.4	1.809e-02	4.432e-04
0208	1.579e+03	2.759e+03	55.9	1.510e-02	3.800e-04	61.7	1.328e-02	3.343e-04
0209	3.189e+03	7.489e+03	60.9	1.124e-02	1.990e-04	67.0	1.006e-02	1.781e-04
0210	1.953e+03	4.243e+03	60.9	1.214e-02	2.748e-04	67.0	1.087e-02	2.460e-04
0211	2.325e+03	5.190e+03	65.9	1.182e-02	2.451e-04	72.3	1.078e-02	2.236e-04
0212	4.734e+03	1.277e+04	70.9	9.784e-03	1.422e-04	77.5	9.101e-03	1.323e-04
0213	4.227e+03	1.230e+04	75.9	9.065e-03	1.394e-04	82.7	8.605e-03	1.324e-04
0214	4.101e+03	1.366e+04	80.9	7.919e-03	1.237e-04	87.8	7.675e-03	1.199e-04
0215	4.985e+03	1.634e+04	85.9	8.052e-03	1.140e-04	92.9	7.971e-03	1.129e-04
0216	6.756e+03	2.536e+04	90.9	7.030e-03	8.552e-05	97.9	7.110e-03	8.651e-05

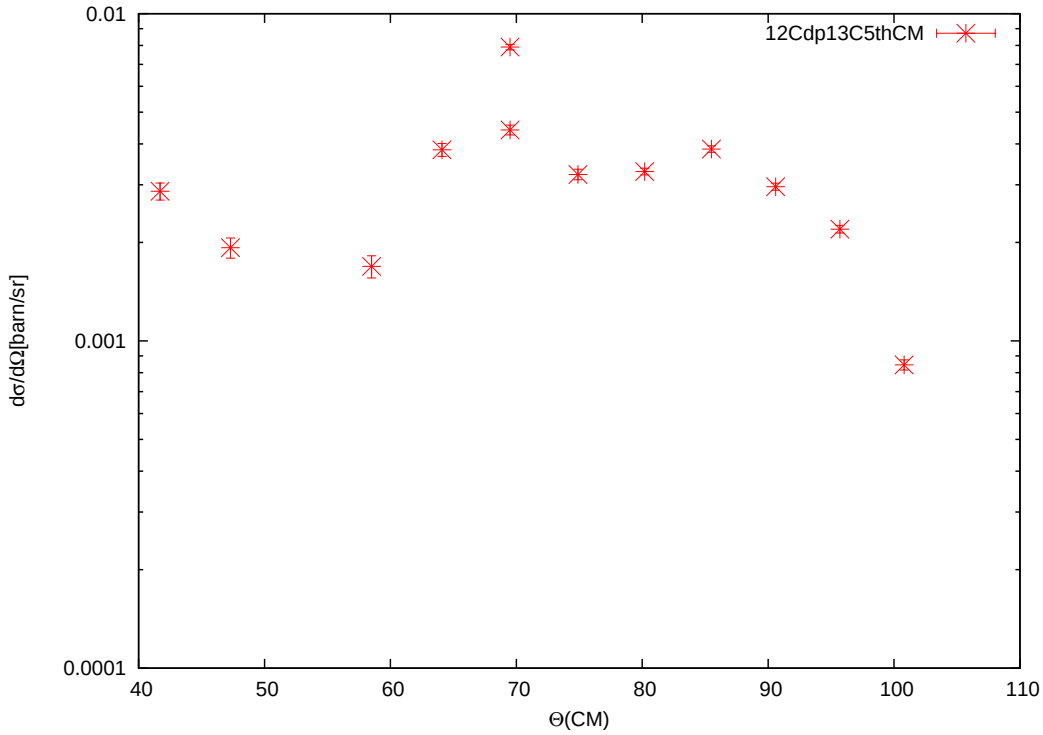

12Cdp13C4thCM
0.01
0.001
dσ/dΩ[barn/sr]
40
50
60
70
80
90
100
Θ(CM)

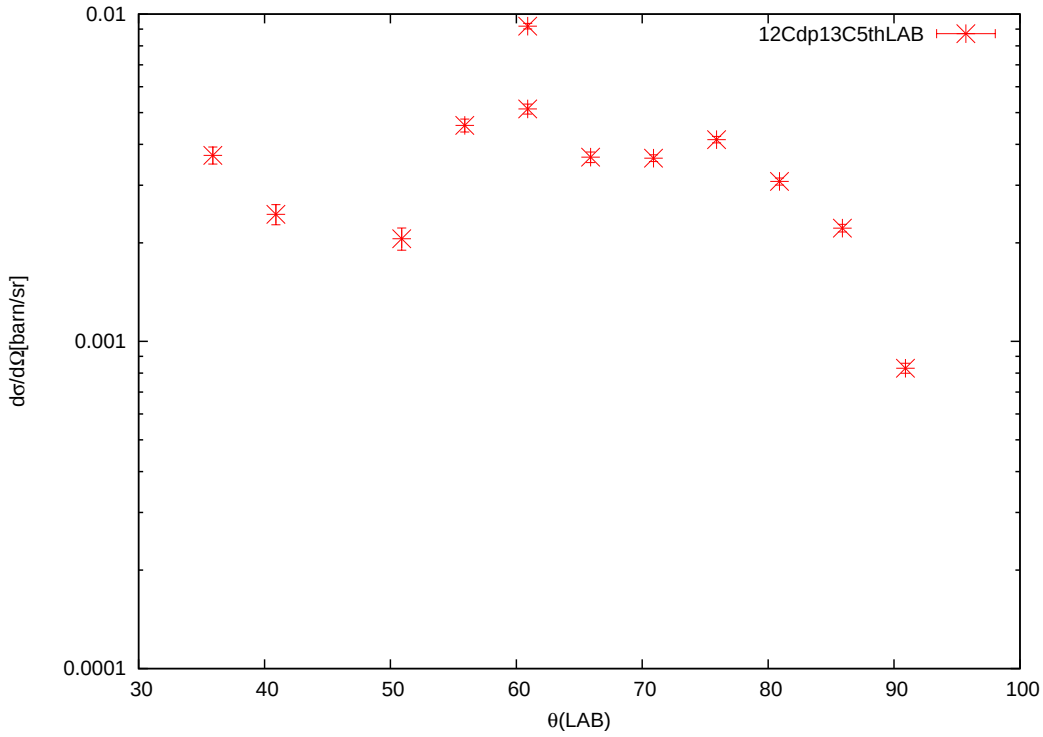

12Cdp13C4thLAB
0.01
0.001
dσ/dΩ[barn/sr]
30
40
50
60
70
80
90
100
θ(LAB)

12Cdp13C4th cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 6.86, Q-value = 2.72

run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	1.541e+02	1.988e+03	35.9	2.045e-03	1.648e-04	41.2	1.611e-03	1.298e-04
0206	3.041e+02	2.488e+03	45.9	3.225e-03	1.849e-04	52.4	2.629e-03	1.508e-04
0207	1.704e+02	2.103e+03	50.9	2.138e-03	1.638e-04	58.0	1.778e-03	1.362e-04
0208	2.729e+02	2.759e+03	55.9	2.610e-03	1.580e-04	63.5	2.217e-03	1.342e-04
0209	4.760e+02	7.489e+03	60.9	1.677e-03	7.687e-05	68.9	1.457e-03	6.680e-05
0210	3.748e+02	4.243e+03	60.9	2.331e-03	1.204e-04	68.9	2.025e-03	1.046e-04
0211	4.729e+02	5.190e+03	65.9	2.404e-03	1.106e-04	74.2	2.140e-03	9.842e-05
0212	1.030e+03	1.277e+04	70.9	2.129e-03	6.633e-05	79.5	1.943e-03	6.056e-05
0213	9.482e+02	1.230e+04	75.9	2.033e-03	6.604e-05	84.8	1.906e-03	6.190e-05
0214	9.710e+02	1.366e+04	80.9	1.875e-03	6.017e-05	89.9	1.805e-03	5.794e-05
0215	9.303e+02	1.634e+04	85.9	1.503e-03	4.927e-05	95.0	1.487e-03	4.877e-05
0216	1.447e+03	2.536e+04	90.9	1.506e-03	3.958e-05	100.0	1.533e-03	4.029e-05

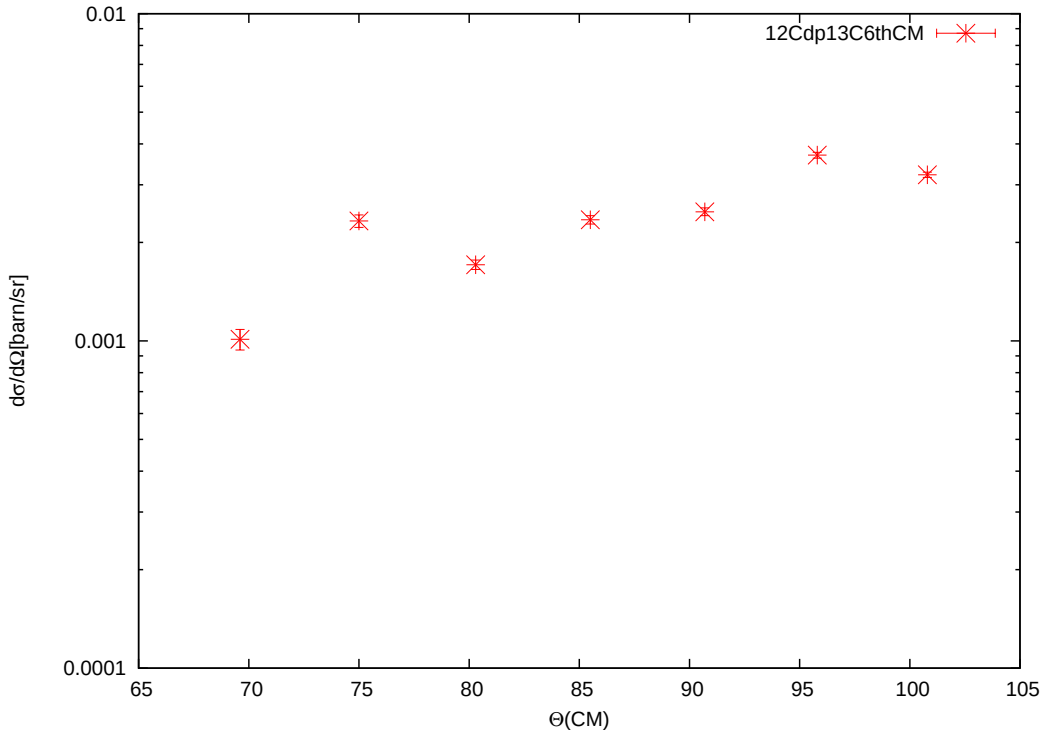

12Cdp13C5thCM
0.01
0.001
0.0001
dσ/dΩ[barn/sr]
40
50
60
70
80
90
100
110
Θ(CM)

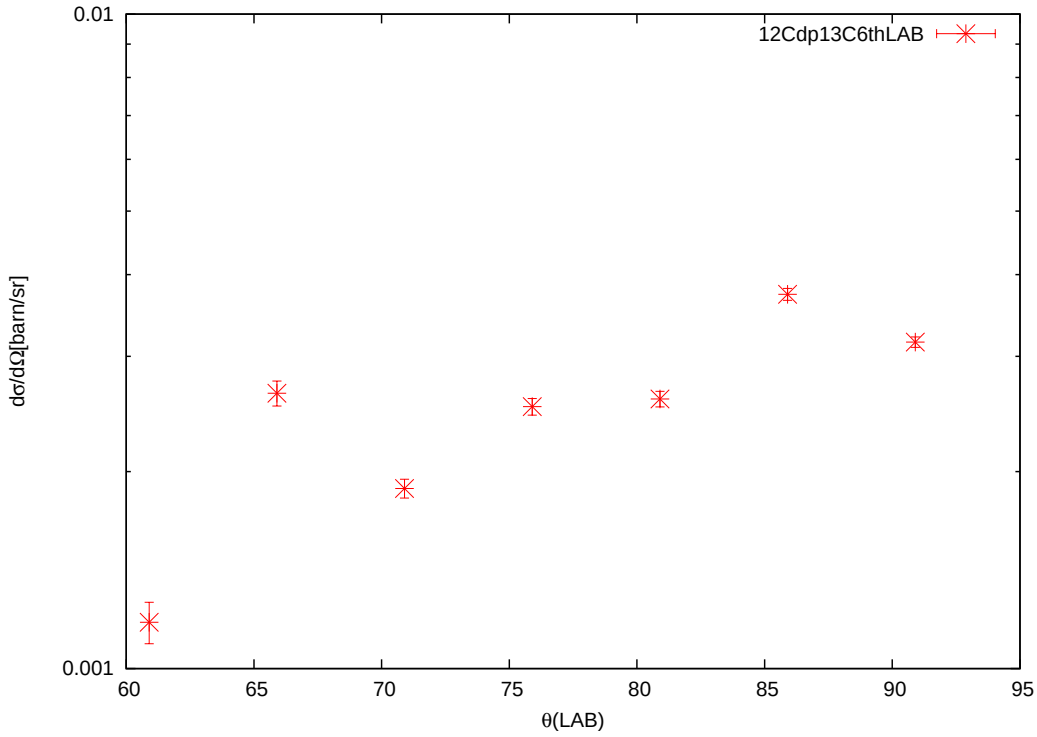

12Cdp13C5thLAB
0.01
0.001
0.0001
dσ/dΩ[barn/sr]
30
40
50
60
70
80
90
100
θ(LAB)

12Cdp13C5th cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 7.49, Q-value = 2.72

run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	2.789e+02	1.988e+03	35.9	3.702e-03	2.216e-04	41.7	2.865e-03	1.716e-04
0204	2.000e+02	2.158e+03	40.9	2.445e-03	1.729e-04	47.3	1.926e-03	1.362e-04
0207	1.641e+02	2.103e+03	50.9	2.059e-03	1.607e-04	58.5	1.689e-03	1.318e-04
0208	4.780e+02	2.759e+03	55.9	4.571e-03	2.091e-04	64.1	3.837e-03	1.755e-04
0209	2.608e+03	7.489e+03	60.9	9.188e-03	1.799e-04	69.5	7.905e-03	1.548e-04
0210	8.248e+02	4.243e+03	60.9	5.129e-03	1.786e-04	69.5	4.412e-03	1.536e-04
0211	7.188e+02	5.190e+03	65.9	3.654e-03	1.363e-04	74.9	3.226e-03	1.203e-04
0212	1.756e+03	1.277e+04	70.9	3.629e-03	8.660e-05	80.2	3.293e-03	7.858e-05
0213	1.927e+03	1.230e+04	75.9	4.133e-03	9.414e-05	85.5	3.857e-03	8.787e-05
0214	1.595e+03	1.366e+04	80.9	3.080e-03	7.712e-05	90.6	2.960e-03	7.411e-05
0215	1.373e+03	1.634e+04	85.9	2.218e-03	5.985e-05	95.7	2.196e-03	5.926e-05
0216	7.957e+02	2.536e+04	90.9	8.279e-04	2.935e-05	100.8	8.450e-04	2.995e-05

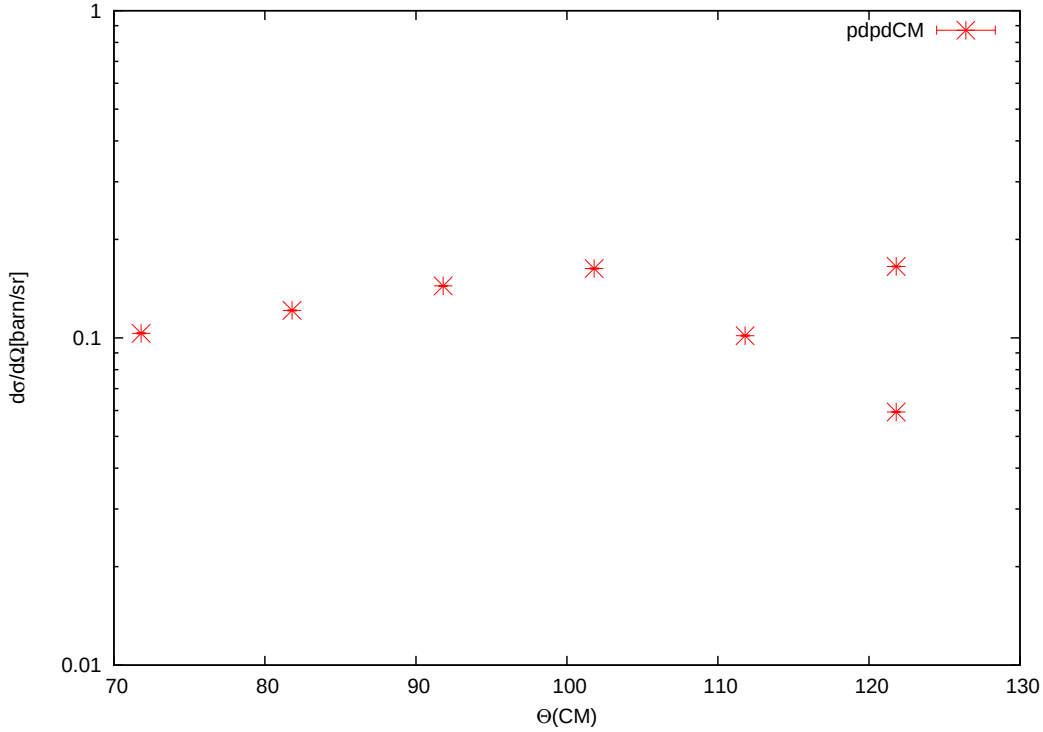

12Cdp13C6thCM
0.01
0.001
0.0001
65
70
75
80
85
90
95
100
105
dσ/dΩ[barn/sr]
Θ(CM)

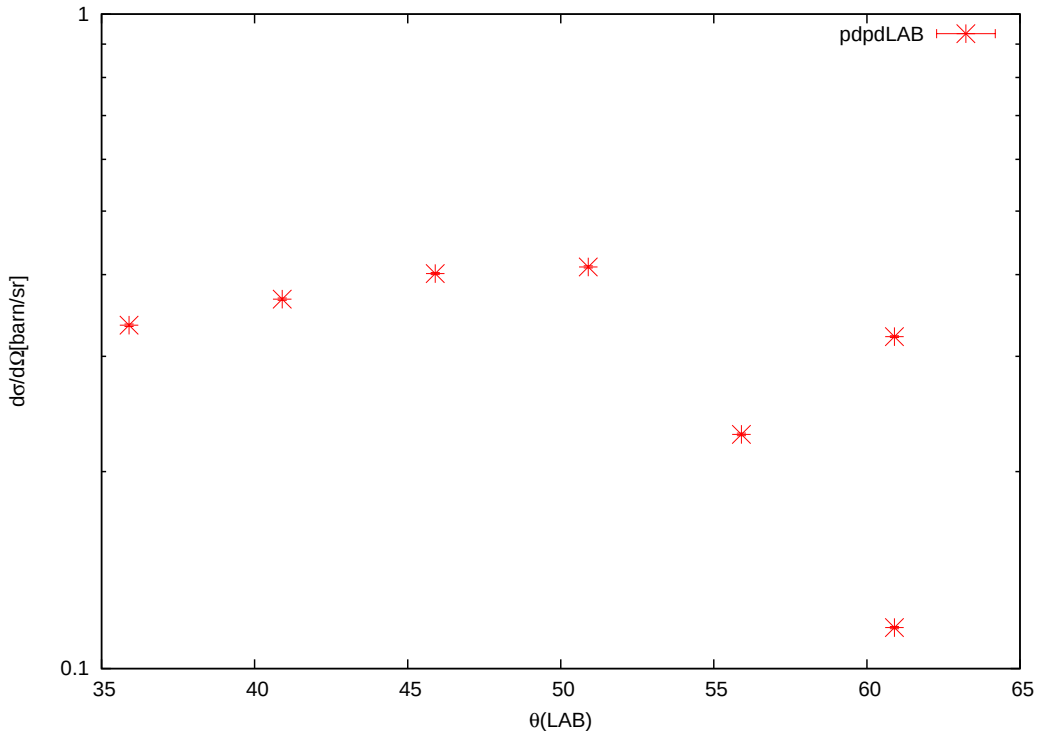

12Cdp13C6thLAB
0.01
0.001
60
65
70
75
80
85
90
95
dσ/dΩ[barn/sr]
θ(LAB)

12Cdp13C6th cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 7.55, Q-value = 2.72

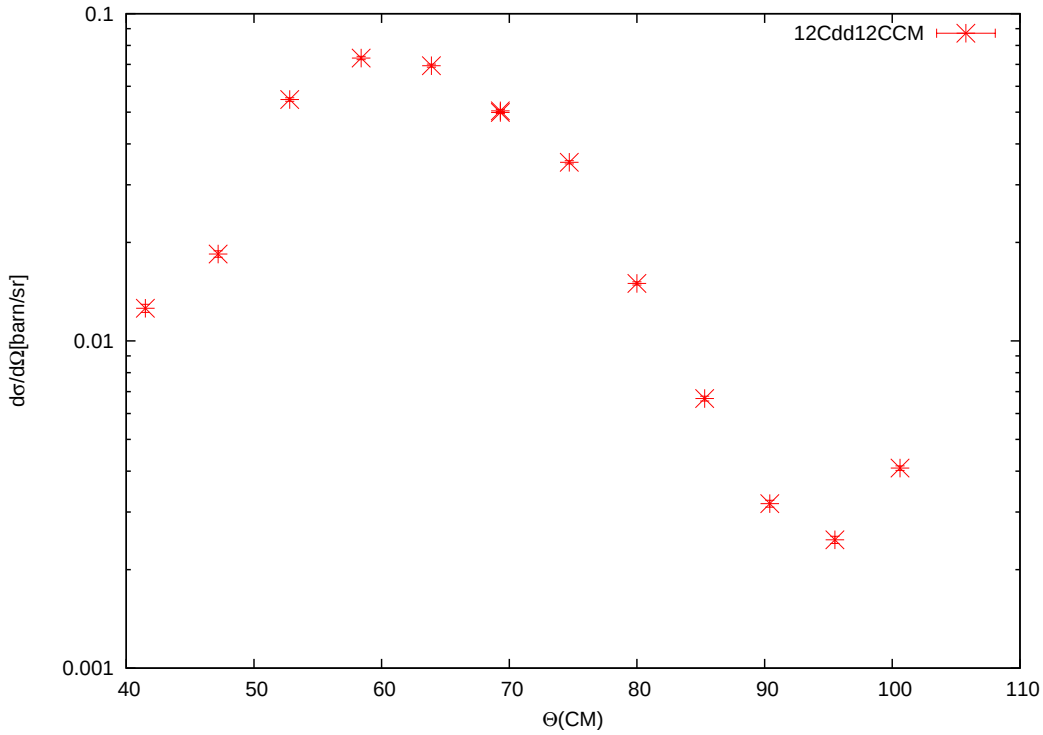
run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0210	1.892e+02	4.243e+03	60.9	1.177e-03	8.553e-05	69.6	1.011e-03	7.351e-05
0211	5.183e+02	5.190e+03	65.9	2.635e-03	1.157e-04	75.0	2.325e-03	1.021e-04
0212	9.117e+02	1.277e+04	70.9	1.884e-03	6.240e-05	80.3	1.709e-03	5.658e-05
0213	1.172e+03	1.230e+04	75.9	2.513e-03	7.342e-05	85.5	2.345e-03	6.850e-05
0214	1.337e+03	1.366e+04	80.9	2.582e-03	7.061e-05	90.7	2.481e-03	6.784e-05
0215	2.310e+03	1.634e+04	85.9	3.731e-03	7.763e-05	95.8	3.695e-03	7.687e-05
0216	3.031e+03	2.536e+04	90.9	3.154e-03	5.728e-05	100.8	3.219e-03	5.848e-05

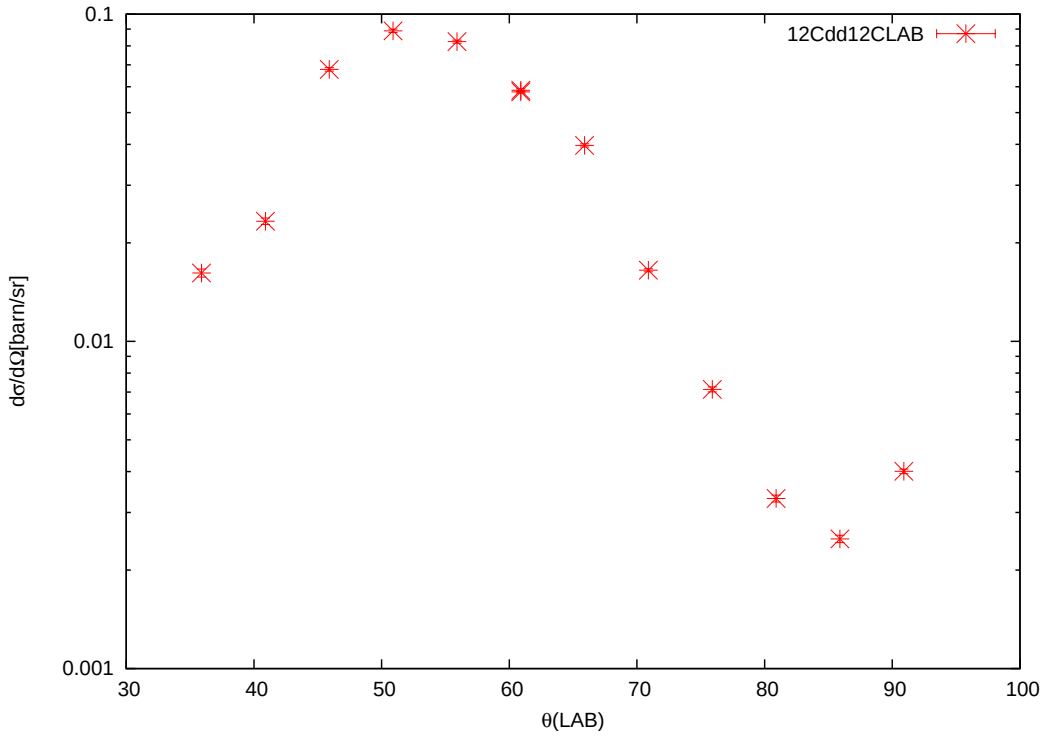

pdpdCM
dσ/dΩ[barn/sr]
1
0.1
0.01
70
80
90
100
110
120
130
Θ(CM)


pdpdLAB
dσ/dΩ[barn/sr]
1
0.1
35
40
45
50
55
60
65
θ(LAB)

pdpd cross section [barn]

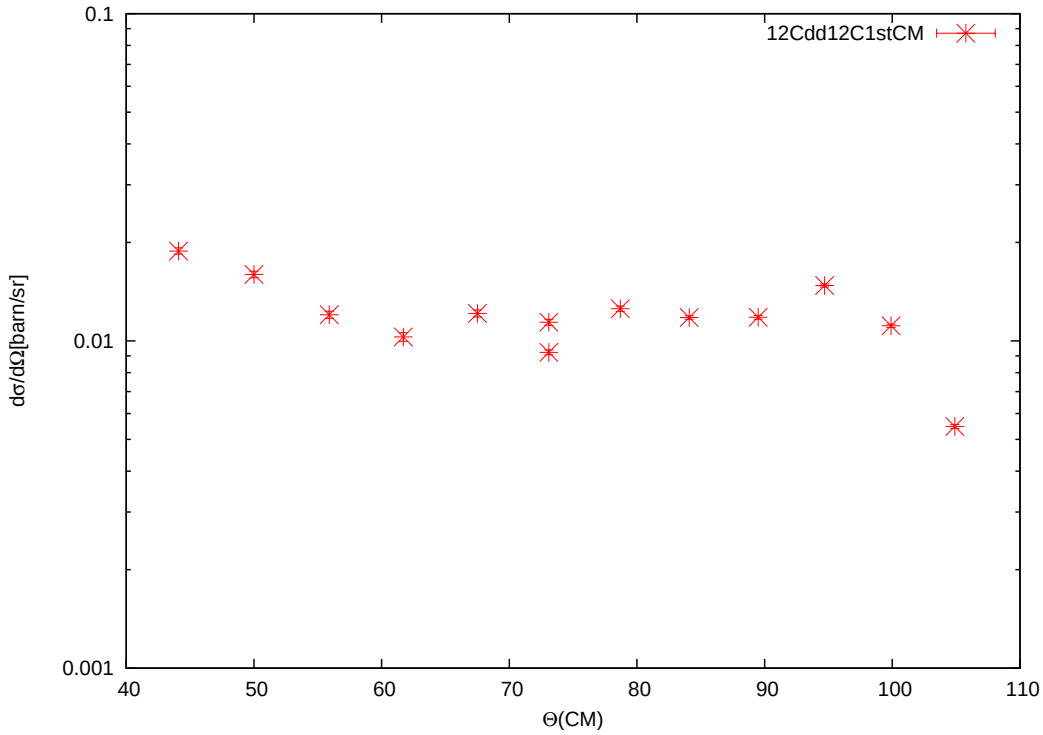
E(LAB) = 10.00, E(CM) = 3.33, Ex = 0.00, Q-value = 0.00								
run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	5.043e+04	1.988e+03	35.9	3.347e-01	1.490e-03	71.8	1.033e-01	4.599e-04
0204	6.001e+04	2.158e+03	40.9	3.669e-01	1.498e-03	81.8	1.213e-01	4.953e-04
0206	7.571e+04	2.488e+03	45.9	4.014e-01	1.459e-03	91.8	1.442e-01	5.241e-04
0207	6.550e+04	2.103e+03	50.9	4.109e-01	1.605e-03	101.8	1.629e-01	6.364e-04
0208	4.766e+04	2.759e+03	55.9	2.279e-01	1.044e-03	111.8	1.016e-01	4.655e-04
0209	6.559e+04	7.489e+03	60.9	1.155e-01	4.511e-04	121.8	5.939e-02	2.319e-04
0210	1.034e+05	4.243e+03	60.9	3.215e-01	9.998e-04	121.8	1.653e-01	5.139e-04

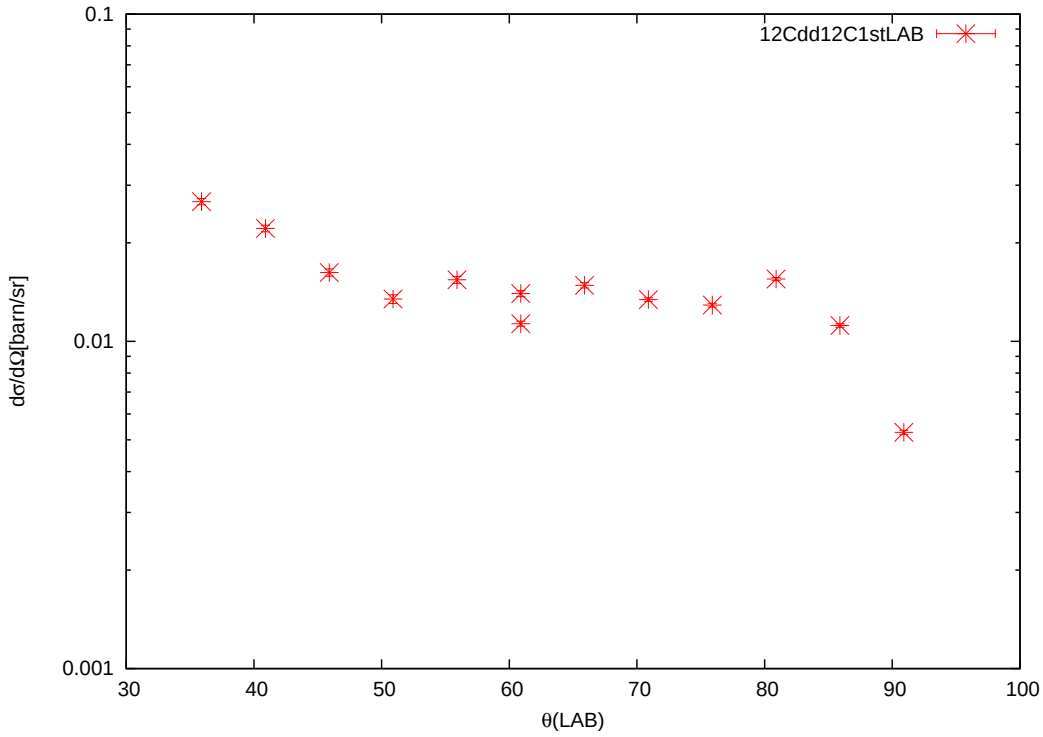

12Cdd12CCM
0.1
0.01
0.001
dσ/dΩ[barn/sr]
40
50
60
70
80
90
100
110
Θ(CM)


12Cdd12CLAB
0.1
0.01
0.001
dσ/dΩ[barn/sr]
30
40
50
60
70
80
90
100
θ(LAB)

12Cdd12C cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 0.00, Q-value = 0.00								
run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	1.219e+03	1.988e+03	35.9	1.618e-02	4.634e-04	41.5	1.258e-02	3.604e-04
0204	1.905e+03	2.158e+03	40.9	2.329e-02	5.336e-04	47.2	1.843e-02	4.222e-04
0206	6.391e+03	2.488e+03	45.9	6.778e-02	8.478e-04	52.8	5.466e-02	6.837e-04
0207	7.085e+03	2.103e+03	50.9	8.889e-02	1.056e-03	58.4	7.319e-02	8.695e-04
0208	8.613e+03	2.759e+03	55.9	8.237e-02	8.875e-04	63.9	6.937e-02	7.474e-04
0209	1.642e+04	7.489e+03	60.9	5.785e-02	4.515e-04	69.3	4.991e-02	3.895e-04
0210	9.408e+03	4.243e+03	60.9	5.850e-02	6.032e-04	69.3	5.047e-02	5.203e-04
0211	7.812e+03	5.190e+03	65.9	3.971e-02	4.493e-04	74.7	3.515e-02	3.976e-04
0212	7.979e+03	1.277e+04	70.9	1.649e-02	1.846e-04	80.0	1.499e-02	1.678e-04
0213	3.326e+03	1.230e+04	75.9	7.133e-03	1.237e-04	85.3	6.665e-03	1.156e-04
0214	1.713e+03	1.366e+04	80.9	3.308e-03	7.992e-05	90.4	3.181e-03	7.685e-05
0215	1.542e+03	1.634e+04	85.9	2.491e-03	6.343e-05	95.5	2.466e-03	6.280e-05
0216	3.850e+03	2.536e+04	90.9	4.006e-03	6.456e-05	100.6	4.085e-03	6.584e-05


12Cdd12C1stCM
0.1
0.01
0.001
dσ/dΩ[barn/sr]
40
50
60
70
80
90
100
110
Θ(CM)


12Cdd12C1stLAB
0.1
0.01
0.001
dσ/dΩ[barn/sr]
30
40
50
60
70
80
90
100
θ(LAB)

12Cdd12C1st cross section [barn]

E(LAB) = 10.00, E(CM) = 8.56, Ex = 4.44, Q-value = 0.00

run	gross	FC	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0205	2.014e+03	1.988e+03	35.9	2.673e-02	5.956e-04	44.1	1.882e-02	4.193e-04
0204	1.810e+03	2.158e+03	40.9	2.213e-02	5.202e-04	50.0	1.596e-02	3.751e-04
0206	1.530e+03	2.488e+03	45.9	1.623e-02	4.148e-04	55.9	1.202e-02	3.072e-04
0207	1.074e+03	2.103e+03	50.9	1.347e-02	4.112e-04	61.7	1.028e-02	3.136e-04
0208	1.612e+03	2.759e+03	55.9	1.542e-02	3.840e-04	67.5	1.214e-02	3.024e-04
0209	3.212e+03	7.489e+03	60.9	1.132e-02	1.997e-04	73.1	9.224e-03	1.628e-04
0210	2.249e+03	4.243e+03	60.9	1.399e-02	2.949e-04	73.1	1.140e-02	2.404e-04
0211	2.918e+03	5.190e+03	65.9	1.483e-02	2.746e-04	78.7	1.254e-02	2.322e-04
0212	6.491e+03	1.277e+04	70.9	1.341e-02	1.665e-04	84.1	1.179e-02	1.463e-04
0213	6.022e+03	1.230e+04	75.9	1.291e-02	1.664e-04	89.5	1.181e-02	1.522e-04
0214	8.026e+03	1.366e+04	80.9	1.550e-02	1.730e-04	94.7	1.477e-02	1.649e-04
0215	6.924e+03	1.634e+04	85.9	1.118e-02	1.344e-04	99.9	1.112e-02	1.337e-04
0216	5.067e+03	2.536e+04	90.9	5.272e-03	7.407e-05	104.9	5.476e-03	7.693e-05