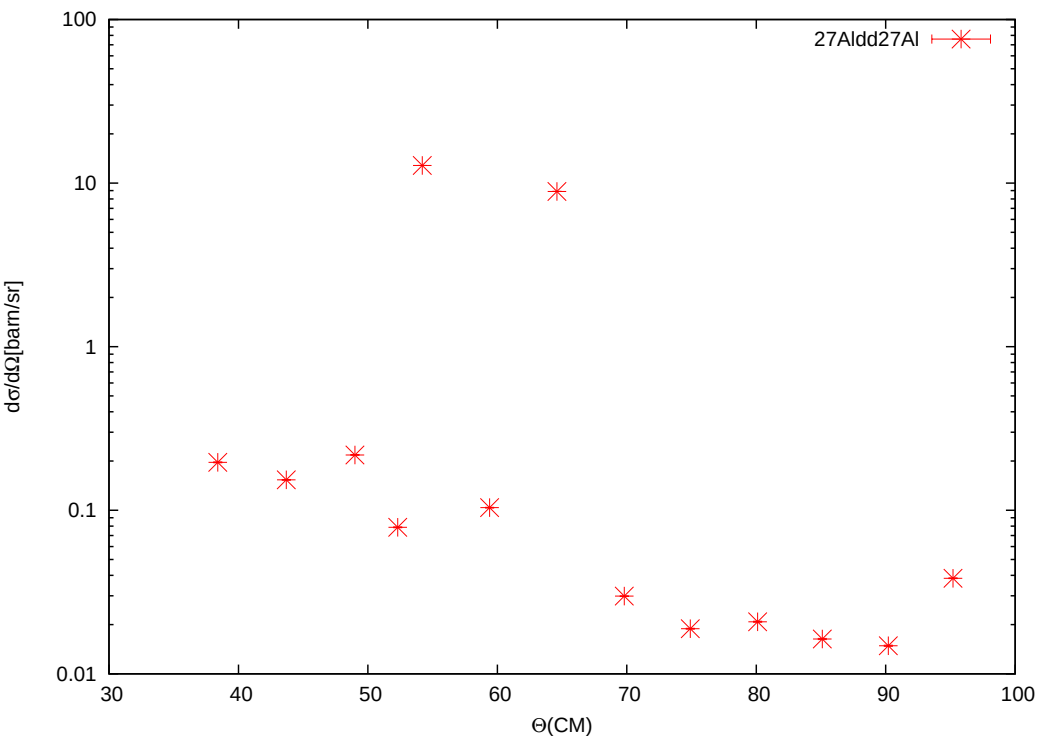
Crosssection 27Al

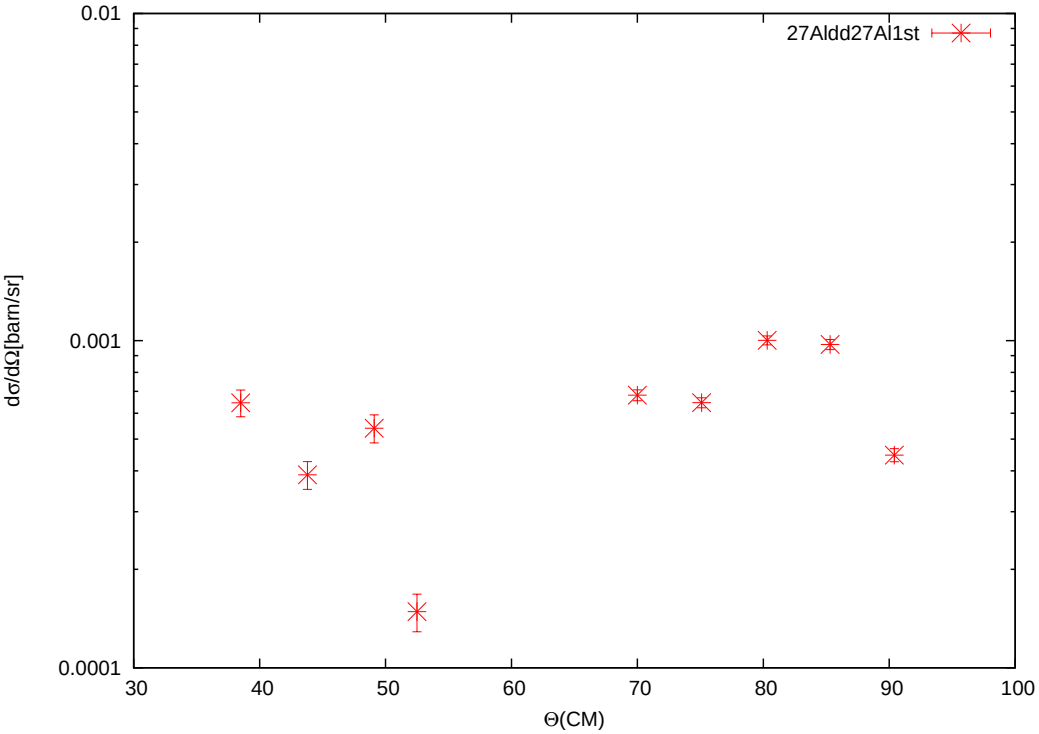
27Aldd27Al cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 0.00, Q-value = 0.00						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	2.206e-01	1.193e-03	38.4	1.963e-01	1.062e-03
0139	40.9	1.709e-01	8.434e-04	43.7	1.533e-01	7.565e-04
0141	45.9	2.407e-01	1.179e-03	49.0	2.178e-01	1.066e-03
0165	49.1	8.646e-02	4.949e-04	52.3	7.870e-02	4.505e-04
0142	50.9	1.404e+01	7.676e-03	54.2	1.282e+01	7.012e-03
0143	55.9	1.124e-01	6.831e-04	59.4	1.037e-01	6.304e-04
0144	60.9	9.531e+00	5.541e-03	64.6	8.892e+00	5.170e-03
0152	65.9	3.162e-02	1.844e-04	69.8	2.985e-02	1.741e-04
0153	70.9	1.974e-02	1.285e-04	74.9	1.886e-02	1.228e-04
0154	75.9	2.152e-02	1.508e-04	80.1	2.081e-02	1.458e-04
0155	80.9	1.666e-02	1.453e-04	85.1	1.632e-02	1.423e-04
0156	85.9	1.497e-02	1.187e-04	90.2	1.485e-02	1.178e-04
0157	90.9	3.820e-02	1.870e-04	95.2	3.840e-02	1.880e-04



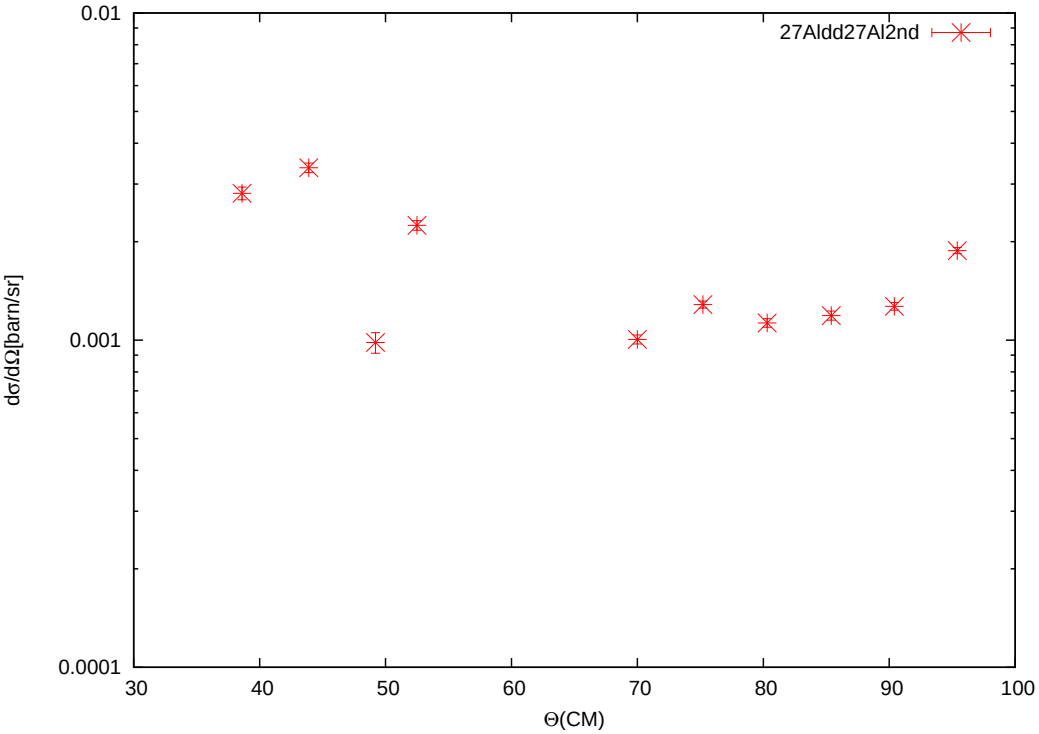
27Aldd27Al1st cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 0.85, Q-value = 0.00						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	7.296e-04	6.860e-05	38.5	6.458e-04	6.072e-05
0139	40.9	4.359e-04	4.260e-05	43.8	3.890e-04	3.801e-05
0141	45.9	5.995e-04	5.881e-05	49.1	5.399e-04	5.297e-05
0165	49.1	1.637e-04	2.154e-05	52.5	1.484e-04	1.952e-05
0152	65.9	7.236e-04	2.790e-05	70.0	6.811e-04	2.626e-05
0153	70.9	6.779e-04	2.382e-05	75.1	6.462e-04	2.270e-05
0154	75.9	1.037e-03	3.310e-05	80.3	1.002e-03	3.196e-05
0155	80.9	9.947e-04	3.550e-05	85.3	9.734e-04	3.474e-05
0156	85.9	4.506e-04	2.060e-05	90.4	4.469e-04	2.043e-05



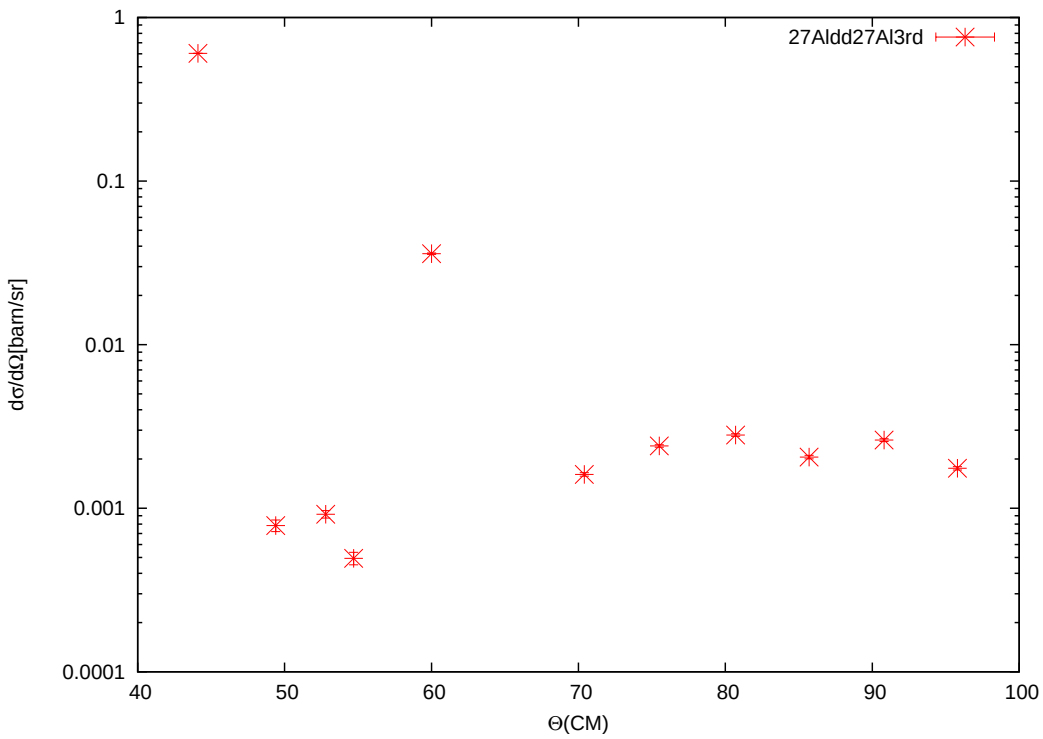
27Aldd27Al2nd cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 1.01, Q-value = 0.00						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	3.180e-03	1.432e-04	38.6	2.811e-03	1.266e-04
0139	40.9	3.775e-03	1.254e-04	43.9	3.365e-03	1.117e-04
0141	45.9	1.093e-03	7.941e-05	49.2	9.832e-04	7.144e-05
0165	49.1	2.478e-03	8.377e-05	52.5	2.243e-03	7.585e-05
0152	65.9	1.069e-03	3.390e-05	70.0	1.005e-03	3.189e-05
0153	70.9	1.348e-03	3.359e-05	75.2	1.285e-03	3.200e-05
0154	75.9	1.169e-03	3.514e-05	80.3	1.129e-03	3.392e-05
0155	80.9	1.215e-03	3.923e-05	85.4	1.189e-03	3.839e-05
0156	85.9	1.279e-03	3.471e-05	90.4	1.269e-03	3.443e-05
0157	90.9	1.867e-03	4.135e-05	95.4	1.878e-03	4.158e-05



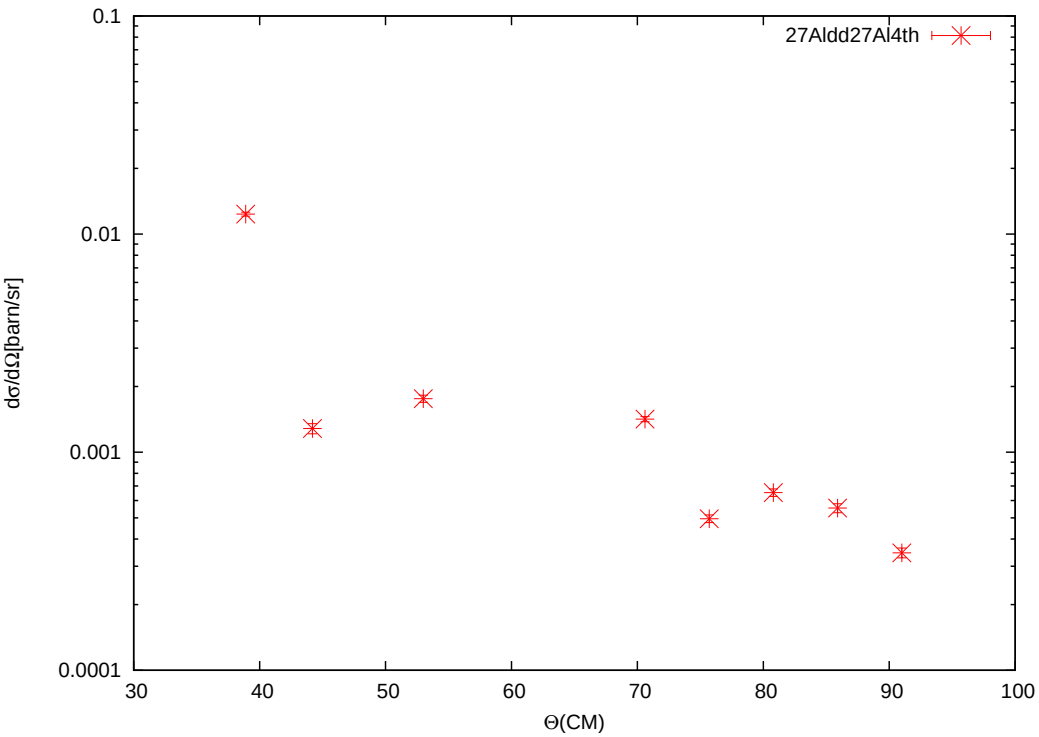
27Aldd27Al3rd cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 2.21, Q-value = 0.00						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0139	40.9	6.832e-01	1.686e-03	44.1	6.036e-01	1.490e-03
0141	45.9	8.782e-04	7.118e-05	49.4	7.836e-04	6.352e-05
0165	49.1	1.023e-03	5.384e-05	52.8	9.193e-04	4.837e-05
0142	50.9	5.478e-04	4.795e-05	54.7	4.942e-04	4.326e-05
0143	55.9	3.943e-02	4.046e-04	60.0	3.599e-02	3.693e-04
0152	65.9	1.720e-03	4.301e-05	70.4	1.610e-03	4.027e-05
0153	70.9	2.530e-03	4.602e-05	75.5	2.402e-03	4.368e-05
0154	75.9	2.909e-03	5.543e-05	80.7	2.801e-03	5.337e-05
0155	80.9	2.103e-03	5.162e-05	85.7	2.055e-03	5.043e-05
0156	85.9	2.633e-03	4.980e-05	90.8	2.610e-03	4.938e-05
0157	90.9	1.742e-03	3.994e-05	95.8	1.754e-03	4.020e-05



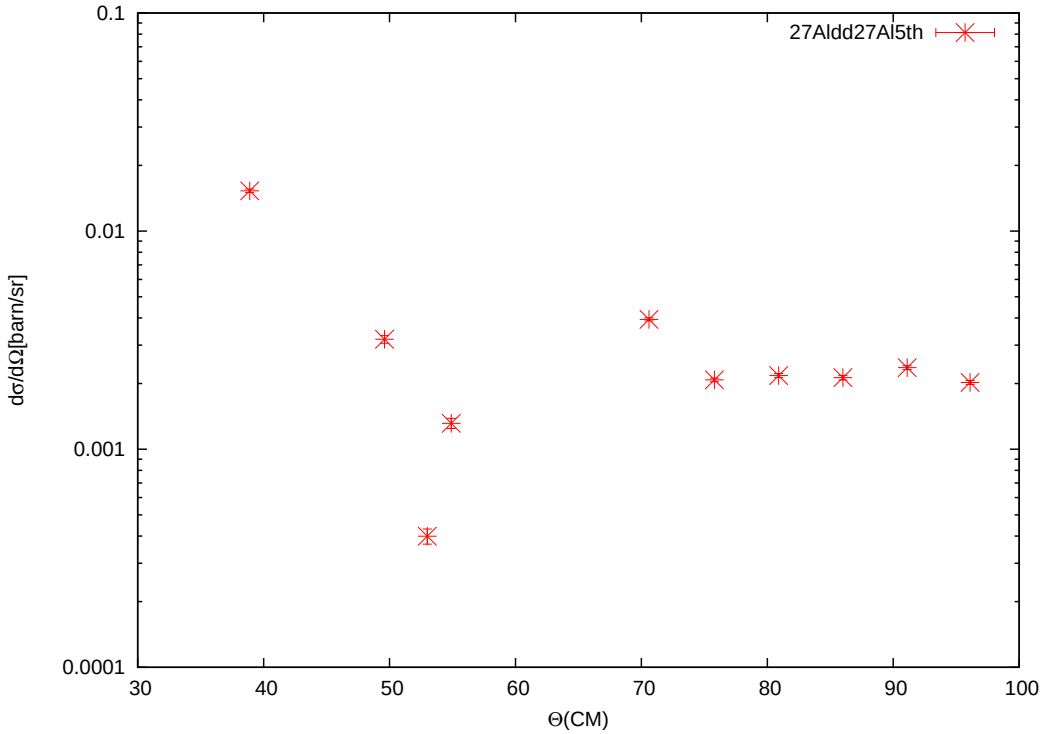
27Aldd27Al4th cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 2.73, Q-value = 0.00						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	1.417e-02	3.023e-04	38.9	1.234e-02	2.634e-04
0139	40.9	1.459e-03	7.793e-05	44.2	1.283e-03	6.853e-05
0165	49.1	1.967e-03	7.465e-05	53.0	1.760e-03	6.680e-05
0152	65.9	1.517e-03	4.039e-05	70.6	1.417e-03	3.773e-05
0153	70.9	5.228e-04	2.092e-05	75.7	4.954e-04	1.982e-05
0154	75.9	6.787e-04	2.677e-05	80.8	6.525e-04	2.574e-05
0155	80.9	5.677e-04	2.682e-05	85.9	5.542e-04	2.618e-05
0156	85.9	3.486e-04	1.812e-05	91.0	3.456e-04	1.796e-05



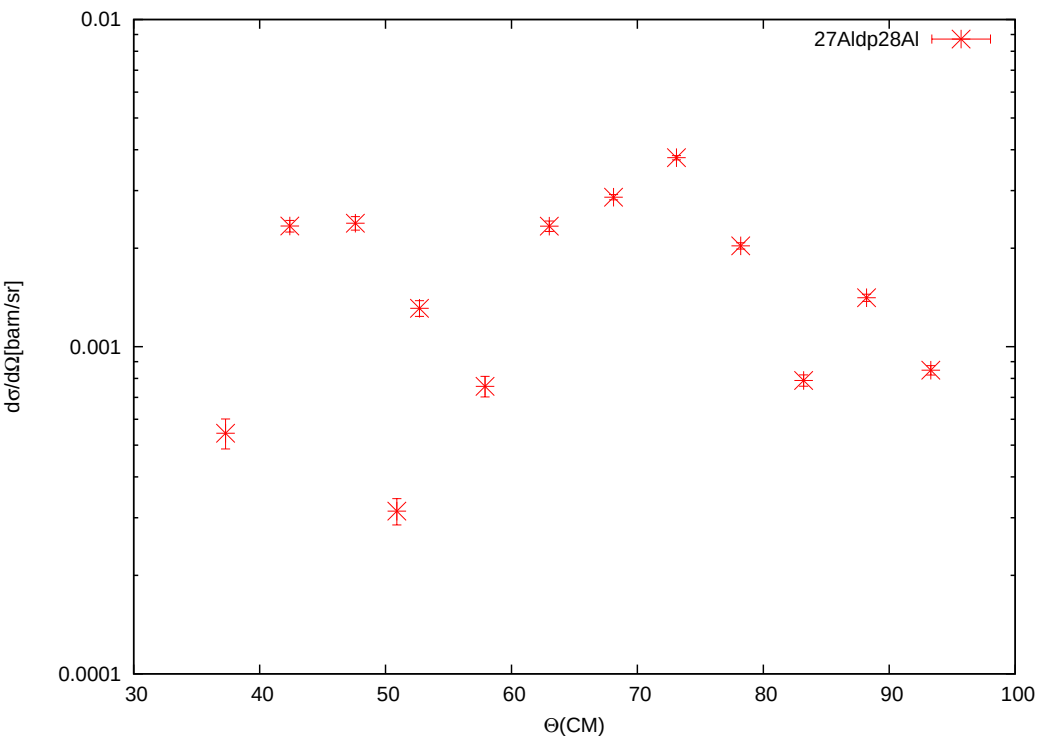
27Aldd27Al5th cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 2.98, Q-value = 0.00						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	1.761e-02	3.371e-04	38.9	1.530e-02	2.929e-04
0141	45.9	3.599e-03	1.441e-04	49.6	3.191e-03	1.278e-04
0165	49.1	4.467e-04	3.557e-05	53.0	3.989e-04	3.177e-05
0142	50.9	1.466e-03	7.844e-05	54.9	1.315e-03	7.035e-05
0152	65.9	4.221e-03	6.738e-05	70.6	3.938e-03	6.286e-05
0153	70.9	2.197e-03	4.288e-05	75.8	2.080e-03	4.059e-05
0154	75.9	2.265e-03	4.891e-05	80.9	2.176e-03	4.699e-05
0155	80.9	2.182e-03	5.258e-05	86.0	2.129e-03	5.130e-05
0156	85.9	2.387e-03	4.742e-05	91.1	2.366e-03	4.700e-05
0157	90.9	2.010e-03	4.290e-05	96.1	2.024e-03	4.320e-05



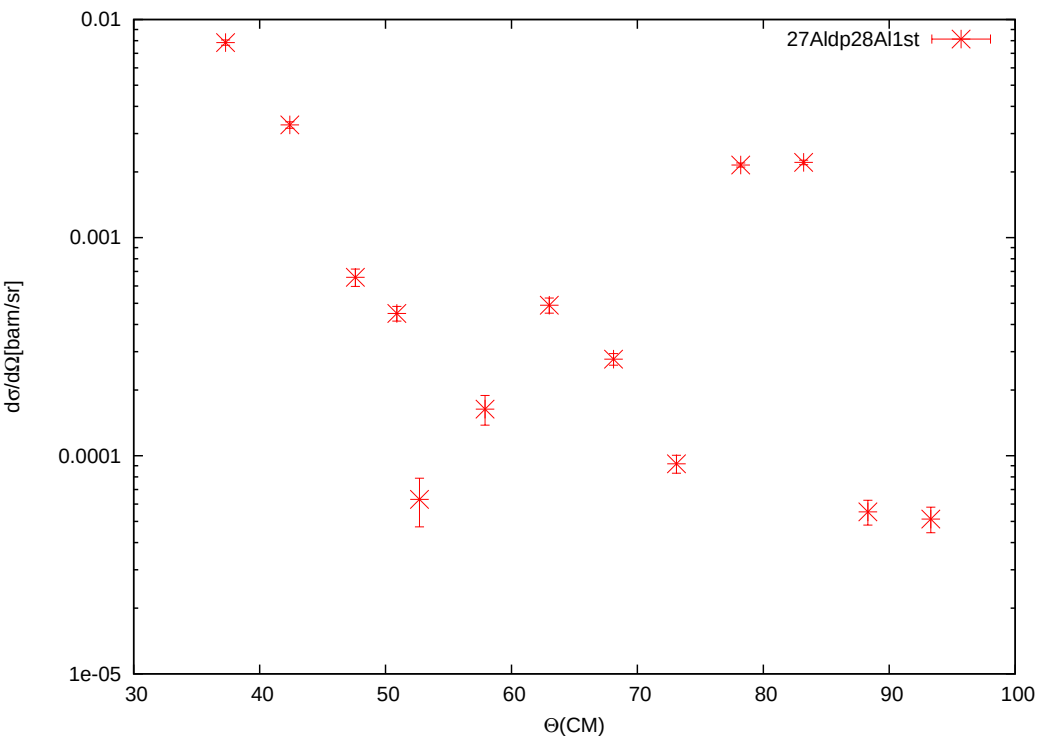
27Aldp28Al cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 0.00, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	5.806e-04	6.120e-05	37.3	5.439e-04	5.733e-05
0139	40.9	2.484e-03	1.017e-04	42.4	2.337e-03	9.568e-05
0141	45.9	2.523e-03	1.206e-04	47.6	2.385e-03	1.141e-04
0165	49.1	3.311e-04	3.063e-05	50.9	3.142e-04	2.906e-05
0142	50.9	1.379e-03	7.607e-05	52.7	1.310e-03	7.231e-05
0143	55.9	7.914e-04	5.733e-05	57.9	7.566e-04	5.480e-05
0144	60.9	2.429e-03	8.847e-05	63.0	2.336e-03	8.509e-05
0152	65.9	2.959e-03	5.642e-05	68.1	2.864e-03	5.461e-05
0153	70.9	3.880e-03	5.699e-05	73.1	3.781e-03	5.552e-05
0154	75.9	2.072e-03	4.679e-05	78.2	2.033e-03	4.590e-05
0155	80.9	7.981e-04	3.180e-05	83.2	7.884e-04	3.142e-05
0156	85.9	1.418e-03	3.654e-05	88.2	1.411e-03	3.636e-05
0157	90.9	8.455e-04	2.782e-05	93.3	8.473e-04	2.788e-05



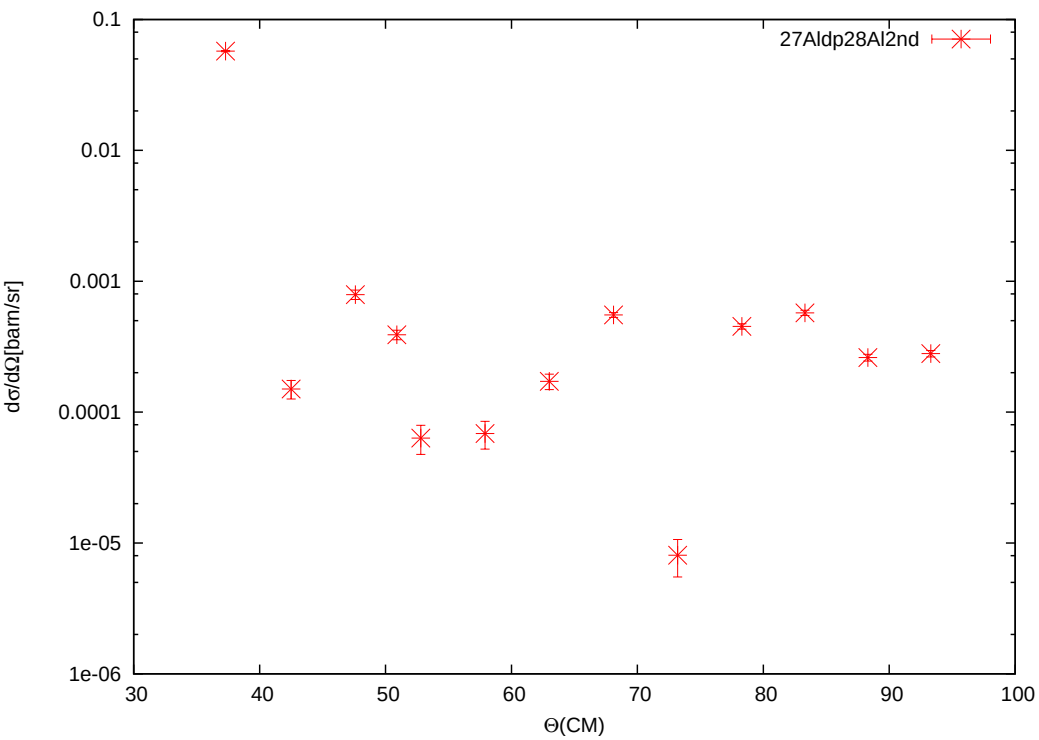
27Aldp28Al1st cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 0.03, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	8.367e-03	2.323e-04	37.3	7.838e-03	2.176e-04
0139	40.9	3.491e-03	1.206e-04	42.4	3.285e-03	1.134e-04
0141	45.9	6.953e-04	6.334e-05	47.6	6.574e-04	5.988e-05
0165	49.1	4.731e-04	3.661e-05	50.9	4.488e-04	3.473e-05
0142	50.9	6.632e-05	1.669e-05	52.7	6.304e-05	1.586e-05
0143	55.9	1.711e-04	2.665e-05	57.9	1.635e-04	2.548e-05
0144	60.9	5.091e-04	4.050e-05	63.0	4.896e-04	3.895e-05
0152	65.9	2.864e-04	1.755e-05	68.1	2.772e-04	1.699e-05
0153	70.9	9.424e-05	8.881e-06	73.1	9.182e-05	8.653e-06
0154	75.9	2.194e-03	4.814e-05	78.2	2.152e-03	4.723e-05
0155	80.9	2.239e-03	5.326e-05	83.2	2.212e-03	5.262e-05
0156	85.9	5.558e-05	7.236e-06	88.3	5.530e-05	7.199e-06
0157	90.9	5.109e-05	6.840e-06	93.3	5.120e-05	6.854e-06



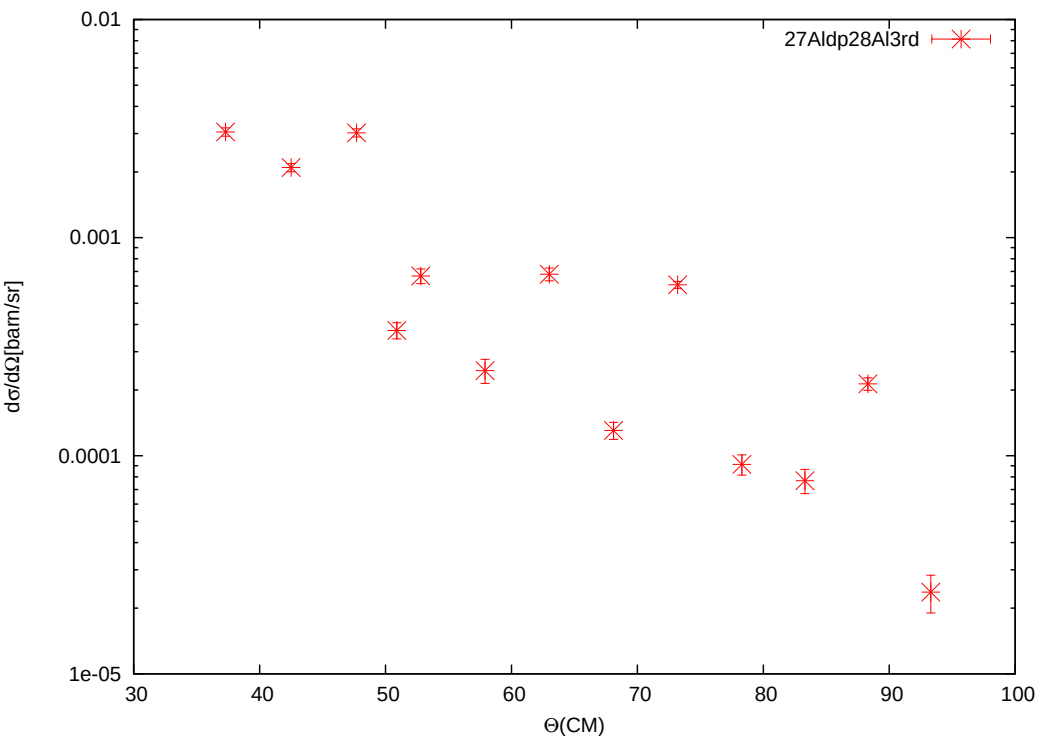
27Aldp28Al2nd cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 0.97, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	6.142e-02	6.294e-04	37.3	5.741e-02	5.884e-04
0139	40.9	1.599e-04	2.580e-05	42.5	1.501e-04	2.422e-05
0141	45.9	8.378e-04	6.953e-05	47.6	7.907e-04	6.562e-05
0165	49.1	4.116e-04	3.415e-05	50.9	3.898e-04	3.234e-05
0142	50.9	6.674e-05	1.674e-05	52.8	6.334e-05	1.588e-05
0143	55.9	7.184e-05	1.727e-05	57.9	6.857e-05	1.649e-05
0144	60.9	1.788e-04	2.400e-05	63.0	1.718e-04	2.306e-05
0152	65.9	5.714e-04	2.479e-05	68.1	5.525e-04	2.397e-05
0153	70.9	8.286e-06	2.633e-06	73.2	8.066e-06	2.564e-06
0154	75.9	4.614e-04	2.208e-05	78.3	4.523e-04	2.164e-05
0155	80.9	5.809e-04	2.713e-05	83.3	5.737e-04	2.679e-05
0156	85.9	2.623e-04	1.572e-05	88.3	2.610e-04	1.564e-05
0157	90.9	2.794e-04	1.599e-05	93.3	2.800e-04	1.603e-05



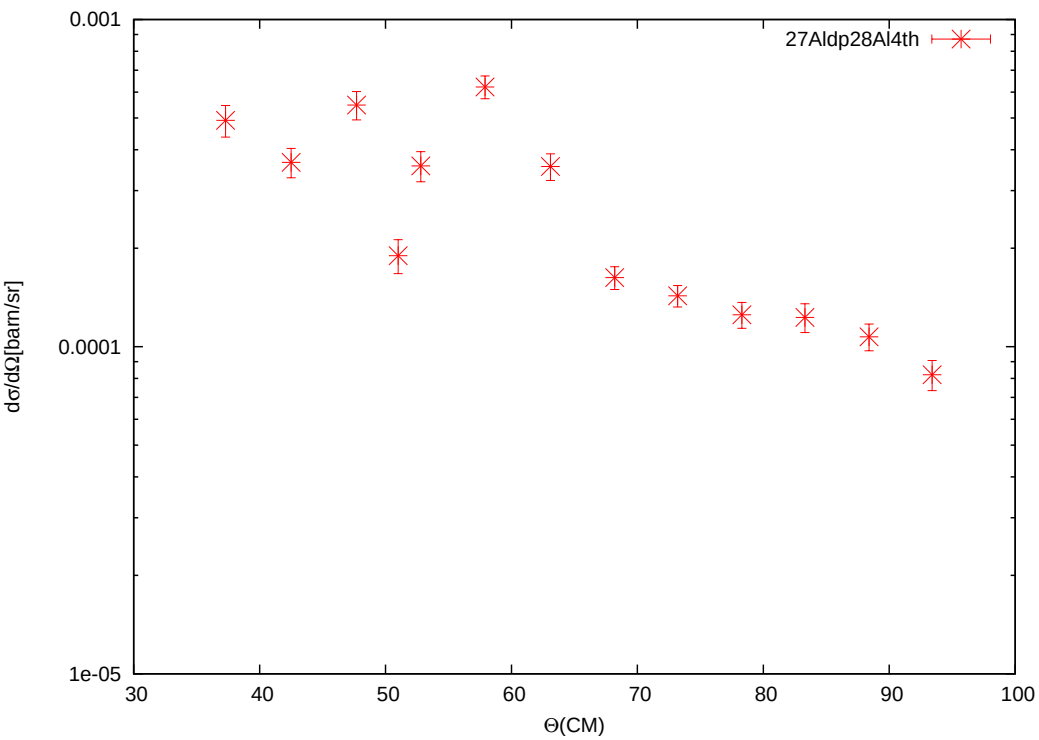
27Aldp28Al3rd cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 1.01, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	3.265e-03	1.451e-04	37.3	3.052e-03	1.357e-04
0139	40.9	2.231e-03	9.637e-05	42.5	2.095e-03	9.049e-05
0141	45.9	3.203e-03	1.360e-04	47.7	3.023e-03	1.283e-04
0165	49.1	3.963e-04	3.351e-05	50.9	3.753e-04	3.173e-05
0142	50.9	7.031e-04	5.433e-05	52.8	6.672e-04	5.155e-05
0143	55.9	2.574e-04	3.270e-05	57.9	2.457e-04	3.121e-05
0144	60.9	7.075e-04	4.775e-05	63.0	6.796e-04	4.586e-05
0152	65.9	1.350e-04	1.205e-05	68.1	1.305e-04	1.165e-05
0153	70.9	6.239e-04	2.285e-05	73.2	6.073e-04	2.224e-05
0154	75.9	9.306e-05	9.914e-06	78.3	9.123e-05	9.720e-06
0155	80.9	7.779e-05	9.928e-06	83.3	7.682e-05	9.804e-06
0156	85.9	2.146e-04	1.422e-05	88.3	2.135e-04	1.414e-05
0157	90.9	2.362e-05	4.651e-06	93.3	2.368e-05	4.661e-06



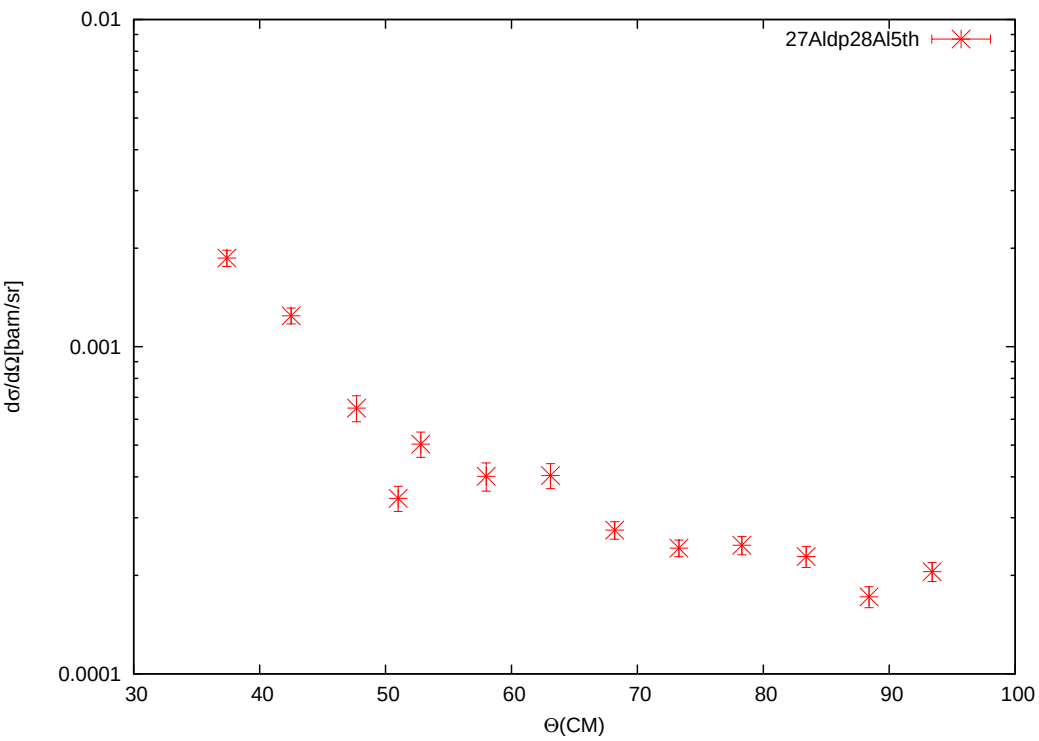
27Aldp28Al4th cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 1.37, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	5.264e-04	5.827e-05	37.3	4.916e-04	5.442e-05
0139	40.9	3.901e-04	4.030e-05	42.5	3.660e-04	3.781e-05
0141	45.9	5.810e-04	5.790e-05	47.7	5.479e-04	5.460e-05
0165	49.1	2.006e-04	2.384e-05	51.0	1.898e-04	2.256e-05
0142	50.9	3.765e-04	3.976e-05	52.8	3.570e-04	3.770e-05
0143	55.9	6.523e-04	5.205e-05	57.9	6.223e-04	4.965e-05
0144	60.9	3.702e-04	3.454e-05	63.1	3.554e-04	3.315e-05
0152	65.9	1.682e-04	1.345e-05	68.2	1.626e-04	1.300e-05
0153	70.9	1.470e-04	1.109e-05	73.2	1.430e-04	1.079e-05
0154	75.9	1.277e-04	1.161e-05	78.3	1.252e-04	1.138e-05
0155	80.9	1.244e-04	1.256e-05	83.3	1.228e-04	1.240e-05
0156	85.9	1.078e-04	1.008e-05	88.4	1.072e-04	1.002e-05
0157	90.9	8.186e-05	8.657e-06	93.4	8.205e-05	8.677e-06



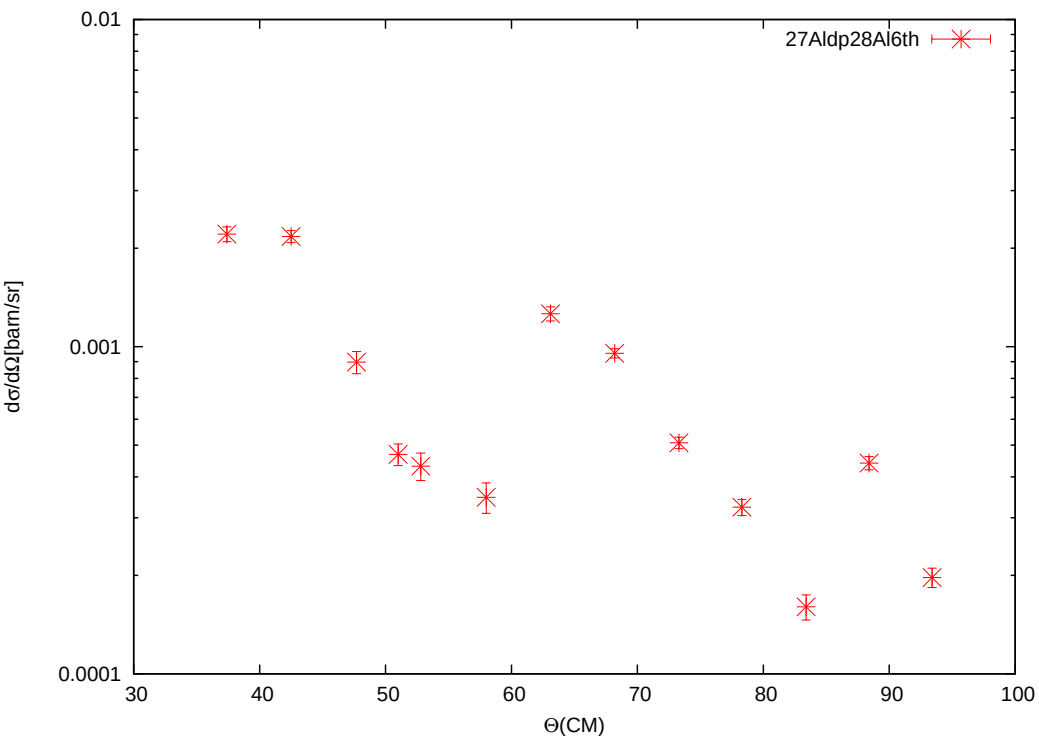
27Aldp28Al5th cross section [barn]

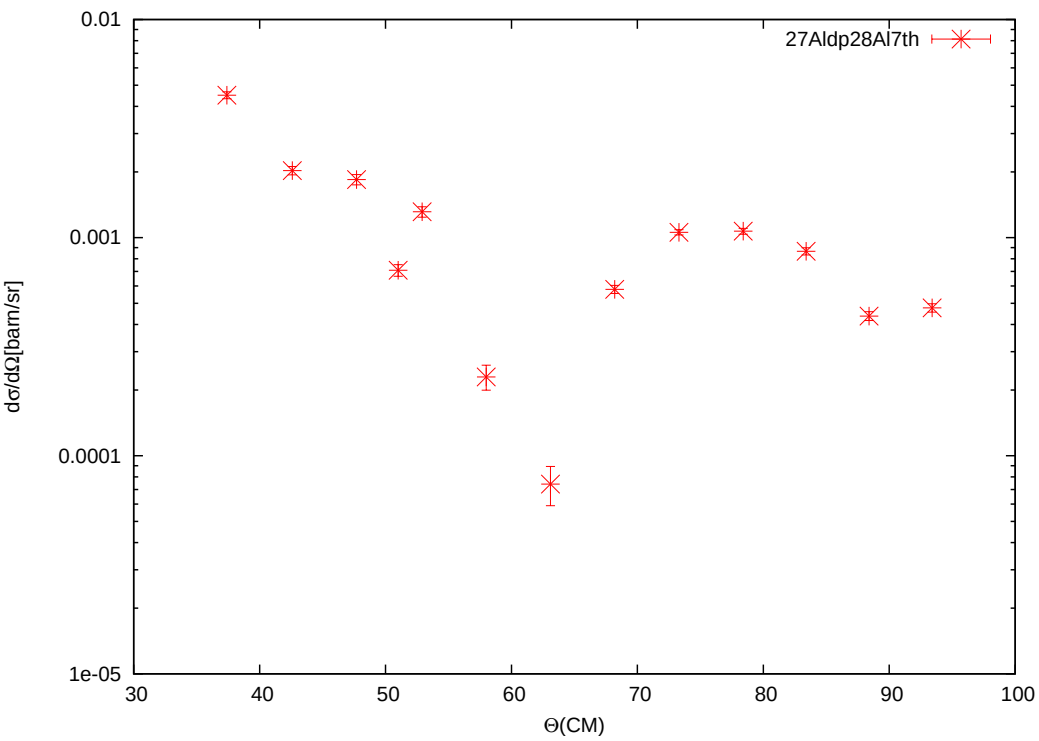
E(LAB) = 10.00, E(CM) = 9.31, Ex = 1.62, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	1.998e-03	1.135e-04	37.4	1.865e-03	1.060e-04
0139	40.9	1.326e-03	7.428e-05	42.5	1.243e-03	6.965e-05
0141	45.9	6.883e-04	6.302e-05	47.7	6.487e-04	5.940e-05
0165	49.1	3.637e-04	3.210e-05	51.0	3.440e-04	3.036e-05
0142	50.9	5.314e-04	4.723e-05	52.8	5.037e-04	4.476e-05
0143	55.9	4.211e-04	4.181e-05	58.0	4.015e-04	3.987e-05
0144	60.9	4.205e-04	3.681e-05	63.1	4.035e-04	3.532e-05
0152	65.9	2.845e-04	1.749e-05	68.2	2.749e-04	1.690e-05
0153	70.9	2.489e-04	1.443e-05	73.3	2.422e-04	1.404e-05
0154	75.9	2.521e-04	1.632e-05	78.3	2.471e-04	1.599e-05
0155	80.9	2.314e-04	1.712e-05	83.4	2.284e-04	1.690e-05
0156	85.9	1.729e-04	1.276e-05	88.4	1.719e-04	1.269e-05
0157	90.9	2.048e-04	1.369e-05	93.4	2.053e-04	1.373e-05



27Aldp28Al6th cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 1.62, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	2.366e-03	1.235e-04	37.4	2.208e-03	1.153e-04
0139	40.9	2.317e-03	9.822e-05	42.5	2.173e-03	9.209e-05
0141	45.9	9.514e-04	7.409e-05	47.7	8.967e-04	6.983e-05
0165	49.1	4.954e-04	3.746e-05	51.0	4.686e-04	3.543e-05
0142	50.9	4.550e-04	4.370e-05	52.8	4.313e-04	4.142e-05
0143	55.9	3.633e-04	3.884e-05	58.0	3.464e-04	3.704e-05
0144	60.9	1.314e-03	6.506e-05	63.1	1.261e-03	6.244e-05
0152	65.9	9.880e-04	3.260e-05	68.2	9.545e-04	3.149e-05
0153	70.9	5.224e-04	2.091e-05	73.3	5.083e-04	2.034e-05
0154	75.9	3.297e-04	1.866e-05	78.3	3.231e-04	1.829e-05
0155	80.9	1.623e-04	1.434e-05	83.4	1.602e-04	1.416e-05
0156	85.9	4.431e-04	2.043e-05	88.4	4.408e-04	2.032e-05
0157	90.9	1.966e-04	1.342e-05	93.4	1.970e-04	1.345e-05



27Aldp28Al7th cross section [barn]

E(LAB) = 10.00, E(CM) = 9.31, Ex = 2.14, Q-value = 5.50						
run	deg(LAB)	crssc(LAB)	error	deg(CM)	crssc(CM)	error
0140	35.9	4.823e-03	1.764e-04	37.4	4.495e-03	1.644e-04
0139	40.9	2.166e-03	9.497e-05	42.6	2.029e-03	8.893e-05
0141	45.9	1.961e-03	1.064e-04	47.7	1.846e-03	1.001e-04
0165	49.1	7.495e-04	4.608e-05	51.0	7.081e-04	4.353e-05
0142	50.9	1.387e-03	7.631e-05	52.9	1.313e-03	7.225e-05
0143	55.9	2.413e-04	3.165e-05	58.0	2.298e-04	3.015e-05
0144	60.9	7.733e-05	1.578e-05	63.1	7.414e-05	1.513e-05
0152	65.9	5.998e-04	2.540e-05	68.2	5.791e-04	2.452e-05
0153	70.9	1.088e-03	3.018e-05	73.3	1.058e-03	2.934e-05
0154	75.9	1.092e-03	3.397e-05	78.4	1.070e-03	3.327e-05
0155	80.9	8.764e-04	3.332e-05	83.4	8.650e-04	3.289e-05
0156	85.9	4.393e-04	2.034e-05	88.4	4.370e-04	2.023e-05
0157	90.9	4.750e-04	2.086e-05	93.4	4.762e-04	2.091e-05