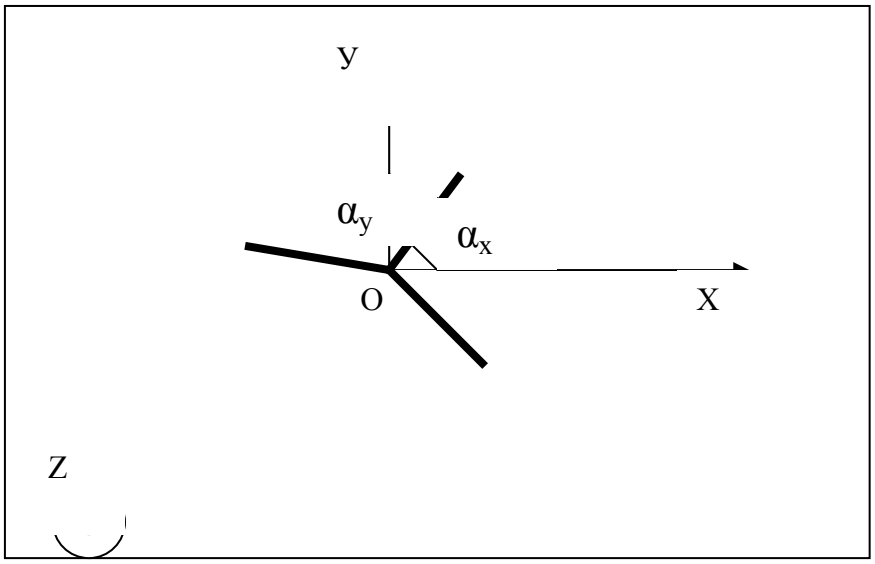
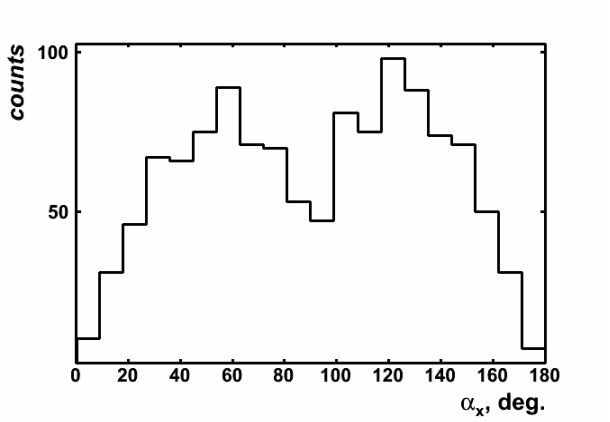
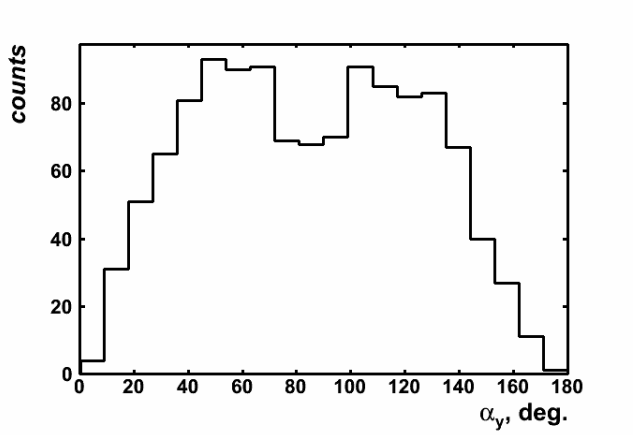
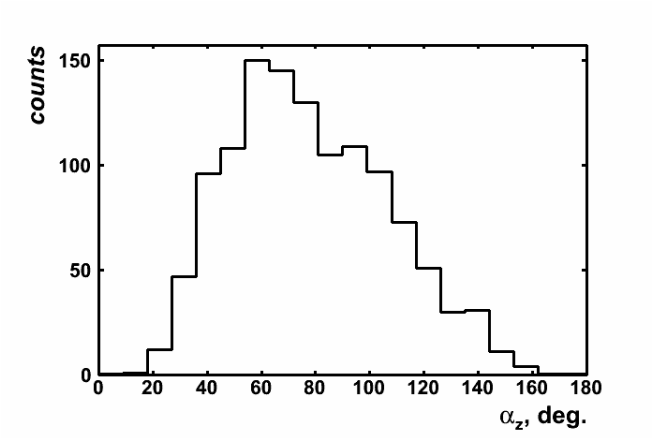
The figures present distributions over emission angles of α-particles with the respect to coordinate axes. Directions of axes OX and OY are not firmly fixed since an angle between a direction of movement of a coordinate table and direction of the outer edge of a plate is not constant. This fact can explain a difference in distributions over alpha angles for OX, OY and OZ (angle in a vertical plane is less dependent on a positioning of a plate on the table).

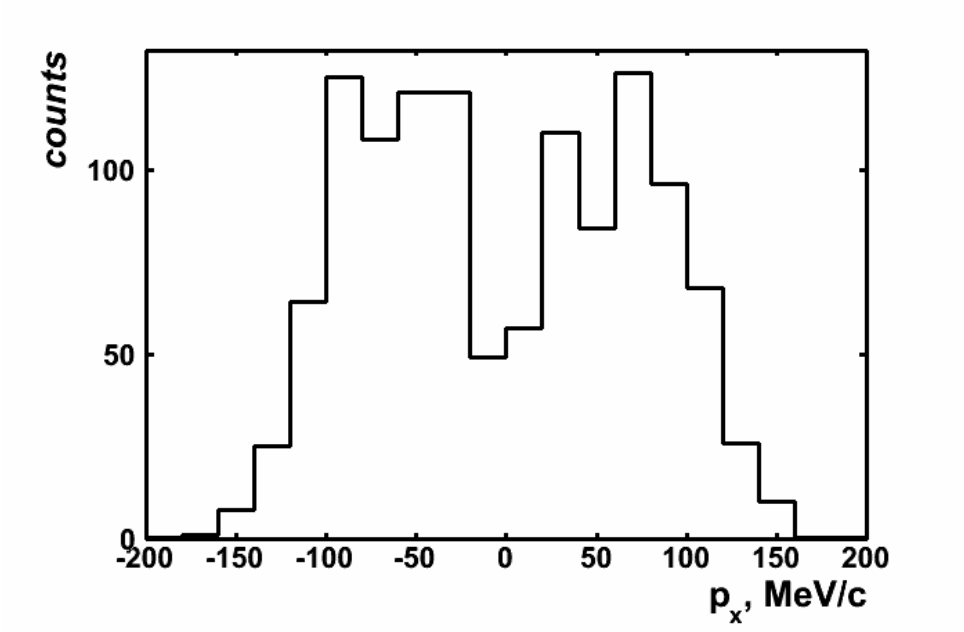


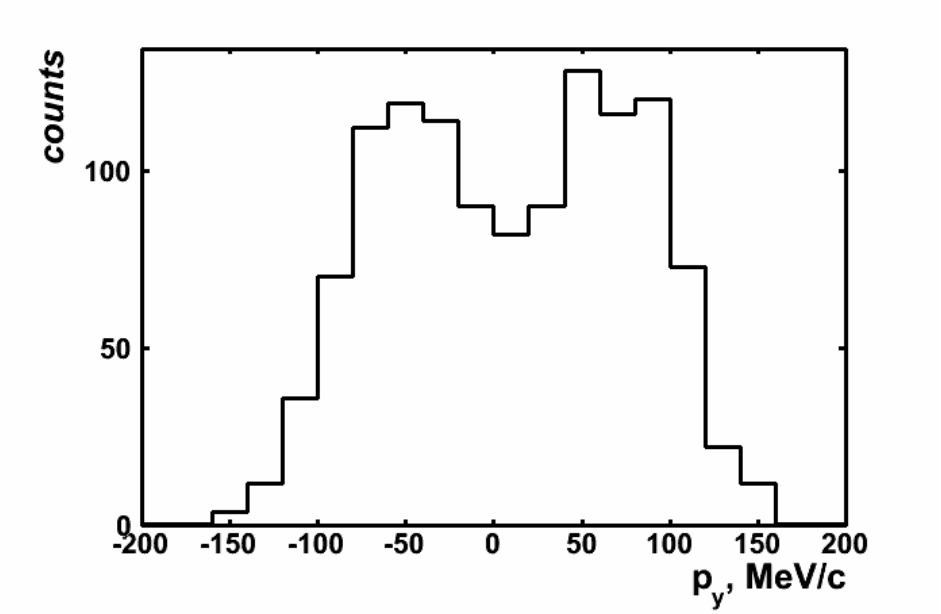


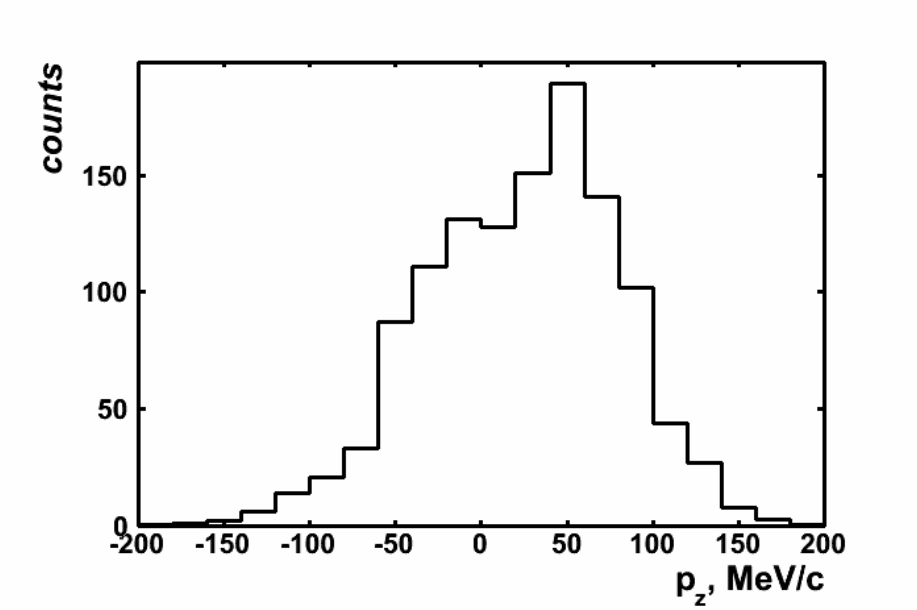




Corresponding distributions over momentum components for 400 events $^{12}C \rightarrow 3\alpha$ follow below.







A fragment of the text file C12_3alpha_px_py_pz.dat is presented below

-23.88	50.4	-160.1	47.04	66.17	-120.4	-40.38	-112.1	-31.01
-87.12	76.23	-12.35	81.11	2.636	-92.02	-48.08	-96.15	5.454
-13.87	140.4	-66.8	98.36	-11.07	36.76	-28.85	-53.37	-67.22
-129.7	57.23	-56.39	55.42	36.39	-112.8	54.04	-76.19	-25.78
-120.7	-25.15	3.881	14.58	145.8	-38.81	72.88	-9.717	-77.3
-63.02	-37.81	35.04	5.858	75.28	47.22	87.74	-15.21	-5.419
-151.2	19.94	36.79	32.5	56.87	-42.25	50.58	-45.52	-77.36
-106.7	-50.8	-2.046	-81.81	42.27	-27.19	118.4	-9.475	-38.99

Components of momenta (p_{x1}, p_{y1}, p_{z1}, p_{x2}, p_{y2}, p_{z2}, p_{x3}, p_{y3}, p_{z3}) in α-triples are in MeV/*c*. Using this file it is possible to reproduce distribution over $Q_{2\alpha}$.