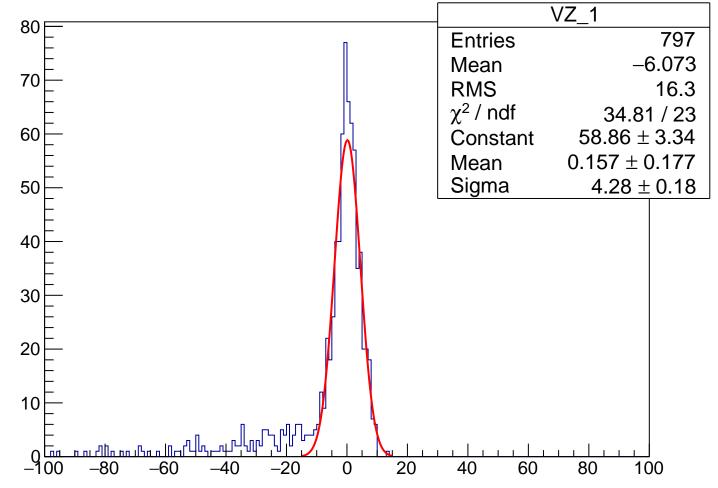
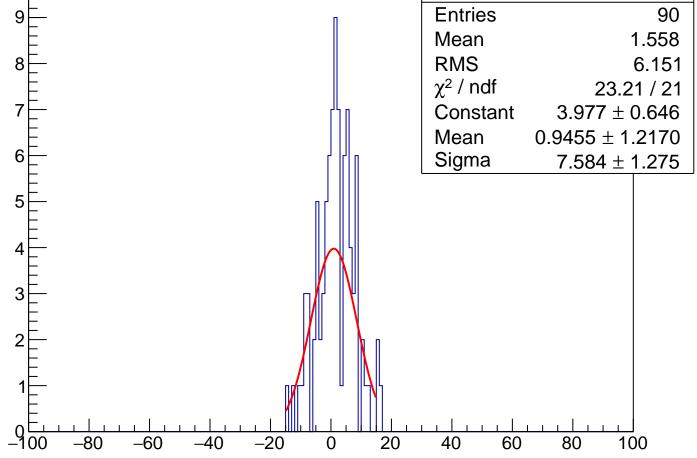
ap_30MeV_looseVZ VZ_0 **Entries** 1999 140 Mean -6.922**RMS** 18.91 120 χ^2 / ndf 74.36 / 27 122.1 ± 4.3 Constant Mean 0.08677 ± 0.13395 100 Sigma 4.939 ± 0.121 80 60 40 20 9 — 80 — 60 —100 —80 —60 20 60 80 100 40

ap_30MeV_L1L1VZ



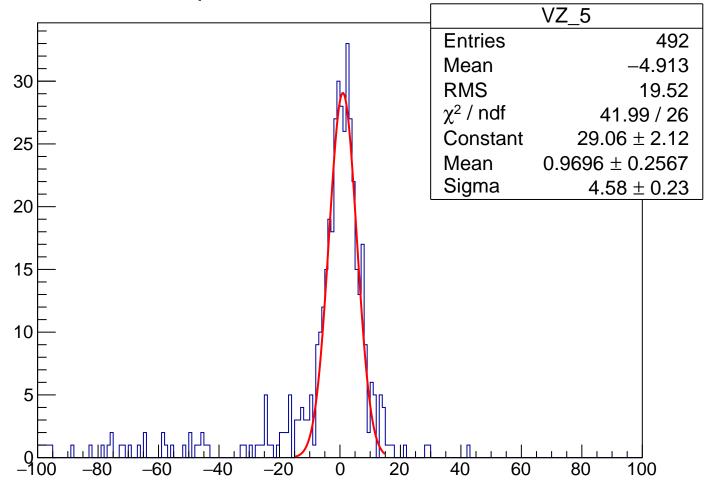
ap_30MeV_L1L2VZ VZ_2 132 **Entries** 14 Mean 2.22 **RMS** 6.681 12 χ^2 / ndf 4.616 / 17 10.85 ± 1.27 Constant 10 2.874 ± 0.517 Mean Sigma 4.97 ± 0.50 8 6 4 2 -100 -20 -80 -60 -40 20 40 60 80 100

ap_30MeV_L2L2VZ VZ_3 **Entries** 90 Mean 1.558 **RMS** 6.151 χ^2 / ndf 23.21 / 21 Constant 3.977 ± 0.646 0.9455 ± 1.2170 Mean Sigma 7.584 ± 1.275



ap_30MeV_L1L1_looseVZ VZ_4 **Entries** 1148 90 Mean -9.503**RMS** 19.85 80 χ^2 / ndf 42.65 / 25 Constant 74.68 ± 3.47 70 Mean -0.2805 ± 0.1652 Sigma 60 4.453 ± 0.141 50 40 30 20 10 20 40 60 80 100

ap_30MeV_L1L2_looseVZ



ap_30MeV_L2L2_looseVZ VZ_6 **Entries** 198 18 0.438 Mean 6.921 **RMS** 16 χ^2 / ndf 33.37 / 27 9.683 ± 1.025 Constant 14 0.08855 ± 0.57550 Mean Sigma 6.605 ± 0.534 12 10 8 6 4 2 -100 -20 20 -80 -60 40 60 80 100 **-40**

ap_30MeV_L1L2_loose_extrapVZ √Z_7 202 **Entries** 0.1882 Mean 16 **RMS** 14.28 χ^2 / ndf 21.84 / 22 14 15.11 ± 1.67 Constant 2.037 ± 0.351 Mean 12 Sigma 4.247 ± 0.347 10 8 6 4 2 -100 -20 -80 -60-40 20 40 60 80 100

ap_30MeV_L2L2_loose_extrapVZ VZ_8 **Entries** 114 1.169 Mean 10 **RMS** 6.157 χ^2 / ndf 23.36 / 24 Constant 5.954 ± 0.892 8 0.8597 ± 0.7140 Mean Sigma 6.008 ± 0.750 6 4 2 -100 -20 -80 -60 20 40 60 80 100 **-40**