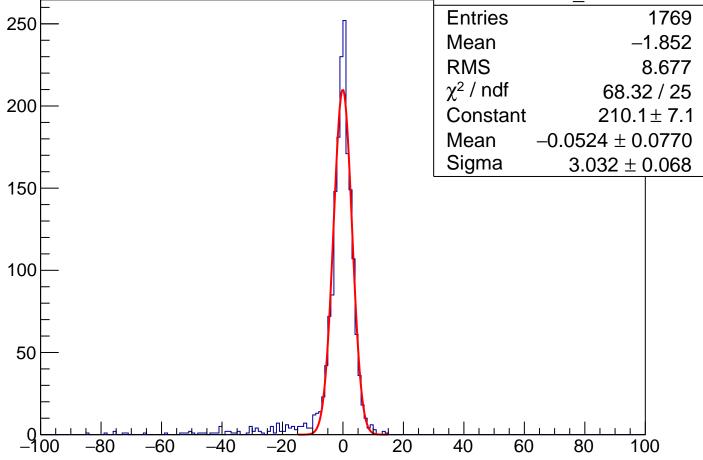
ap_40MeV_looseVZ VZ_0 **Entries** 4425 500 Mean -2.41911.07 **RMS** χ^2 / ndf 166.4 / 27 435.5 ± 9.8 Constant 400 -0.04512 ± 0.05828 Mean Sigma 3.595 ± 0.058 300 200 100 -100 -80 -2020 40 60 80 100 -60

ap_40MeV_L1L1VZ VZ_1 **Entries** 1769 Mean -1.852**RMS** 8.677 χ^2 / ndf 68.32 / 25 Constant 210.1 ± 7.1 Mean -0.0524 ± 0.0770 Sigma 3.032 ± 0.068



ap_40MeV_L1L2VZ VZ_2 **Entries** 407 Mean 0.8641 50 **RMS** 3.931 χ^2 / ndf 16.02 / 15 47.62 ± 3.29 Constant 40 Mean 0.6731 ± 0.1743 Sigma 3.272 ± 0.165 30 20 10 -100

20

40

60

80

100

-20

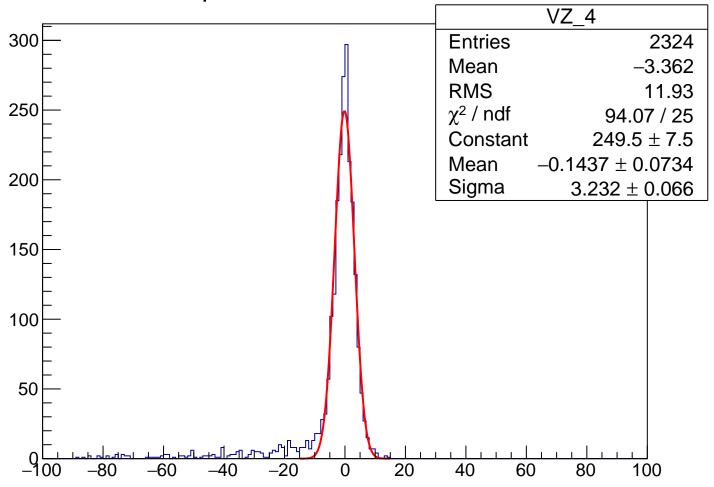
-40

-80

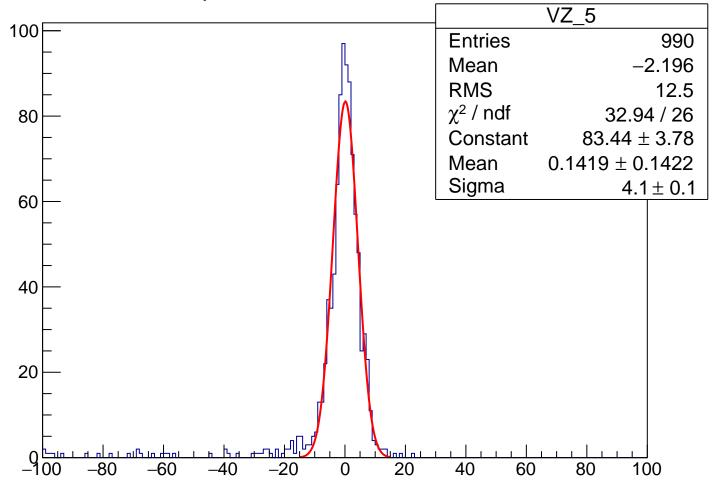
-60

ap_40MeV_L2L2VZ VZ_3 **Entries** 304 45 Mean 0.3843 **RMS** 3.8 40 χ^2 / ndf 29.41 / 19 30 ± 2.4 Constant 35 Mean 0.4042 ± 0.2257 30 Sigma 3.666 ± 0.207 25 20 15 10 5 -100 -20 -80 -60 20 40 60 80 100 -40

ap_40MeV_L1L1_looseVZ



ap_40MeV_L1L2_looseVZ



ap_40MeV_L2L2_looseVZ VZ_6 80 **Entries** 628 -0.2767Mean 5.611 70 **RMS** χ^2 / ndf 38.98 / 24 59.57 ± 3.46 Constant 60 0.05076 ± 0.16413 Mean Sigma 3.917 ± 0.162 50 40 30 20 10 -100 -20 -80 -60 20 40 60 80 100

ap_40MeV_L1L2_loose_extrapVZ VZ 7 **Entries** 565 Mean -0.135660 **RMS** 8.338 χ^2 / ndf 20.44 / 23 50 Constant 57.09 ± 3.21 Mean 0.9583 ± 0.1605 Sigma 3.628 ± 0.129 40 30 20 10 -9<u>L</u> -80 -2020 40 60 80 100 -60

ap_40MeV_L2L2_loose_extrapVZ VZ_8 **Entries** 443 Mean 0.5835 60 **RMS** 4.182 χ^2 / ndf 34.69 / 20 50 Constant 45.16 ± 3.10 Mean 0.5635 ± 0.1798 Sigma 3.594 ± 0.173 40 30 20 10 -100 -80 -60 -2020 40 60 80 100