ap_24MeV_loose_posP posP_0 250 **Entries** 1671 Mean 4.429e-05 **RMS** 0.04703 χ^2 / ndf 200 73.68 / 31 209.3 ± 7.2 Constant Mean -0.001164 ± 0.000761 Sigma 0.03022 ± 0.00072 150 100 50 -0.6 -0.40.2 0.4 0.6

ap_24MeV_L1L1_posP posP_1 **Entries** 650 Mean 0.0005797 100 **RMS** 0.05398 χ^2 / ndf 37.37 / 25 Constant 85.21 ± 4.49 80 Mean -0.0008925 ± 0.0011600 Sigma 0.02838 ± 0.00096 60 40 20 -0.6

0.2

0.4

0.6

-0.4

ap_24MeV_L1L2_posP posP_2 **Entries** 95 Mean 0.0007381 16 **RMS** 0.02804 χ^2 / ndf 8.198 / 12 14 12.98 ± 1.99 Constant Mean -0.003222 ± 0.003152 12 Sigma 0.02719 ± 0.00334 10 8 6 4 2 0.6 -0.6 -0.4-0.20.2 0.4 0.6

ap_24MeV_L2L2_posP posP_3 **Entries** 34 10 Mean -0.00793**RMS** 0.02961 χ^2 / ndf 7.355/98 3.136 ± 0.890 Constant Mean -0.005461 ± 0.010289 Sigma 0.03976 ± 0.01449 6 4 2 0.6 -0.6 -0.40.2 0.4 0.6

ap_24MeV_L1L1_loose_posP posP_4 **Entries** 1020 160 Mean 0.0003532 **RMS** 0.05329 140 χ^2 / ndf 53.76 / 29 Constant 130.8 ± 5.7 120 Mean -0.0008331 ± 0.0009440 Sigma 0.02911 ± 0.00087 100 80 60 40 20 -0.2 _0.6 -0.40.2 0.4 0.6

ap_24MeV_L1L2_loose_posP posP_5 **Entries** 472 60 Mean -7.479e-07 **RMS** 0.03558 χ^2 / ndf 39.52 / 21 50 Constant 59.24 ± 3.86 Mean -0.002538 ± 0.001417 Sigma 0.02913 ± 0.00129 40 30 20 10 0.6 -0.6 -0.20.2 -0.40.4 0.6

ap_24MeV_L2L2_loose_posP posP_6 **Entries** 89 16 Mean -0.004454**RMS** 0.03518 14 χ^2 / ndf 7.794 / 14 9 ± 1.4 Constant 12 Mean -0.007609 ± 0.004761 Sigma 0.03787 ± 0.00481 10 8 6 4 2 -0.6 -0.4-0.20.2 0.4 0.6

ap_24MeV_L1L2_loose_extrap_posP posP_7 22 **Entries** 156 20 Mean 0.004065 **RMS** 0.03665 18 χ^2 / ndf 15.06 / 18 Constant 18.95 ± 2.14 16 Mean $-5.993e-05 \pm 2.557e-03$ 14 Sigma 0.02977 ± 0.00229 12 10 8 6 4 2 -0.20.2 -0.40.4 0.6

ap_24MeV_L2L2_loose_extrap_posP posP_8 **Entries** 41 12 Mean -0.009339**RMS** 0.03185 10 χ^2 / ndf 8.591 / 11 Constant 3.621 ± 0.999 -0.008897 ± 0.008512 Mean 8 Sigma 0.0391 ± 0.0121 6 4 2 -0.6 0.2 -0.40.4 0.6