ap_60MeV_loose_posP posP_0 500 **Entries** 3582 Mean -0.003805**RMS** 0.04315 400 χ^2 / ndf 142.3 / 35 438 ± 10.3 Constant Mean -0.002663 ± 0.000533 Sigma 0.03118 ± 0.00050 300 200 100 -0.6 -0.40.2 0.4 0.6

ap_60MeV_L1L1_posP posP_1 220 **Entries** 1601 Mean -0.002928200 **RMS** 0.04533 χ^2 / ndf 180 64.31 / 29 202 ± 7.0 Constant 160 Mean -0.003017 ± 0.000777 Sigma 0.03023 ± 0.00070 140 120 100 80 60 40 20 _0.6 -0.2-0.40.2 0.4 0.6

ap_60MeV_L1L2_posP posP_2 30 **Entries** 187 Mean 0.0004536 **RMS** 0.03326 25 χ^2 / ndf 16.27 / 16 25.79 ± 2.66 Constant Mean -0.001097 ± 0.002190 20 Sigma 0.0271 ± 0.0021 15 10 5 0.6 -0.6 -0.40.2 0.4 0.6

ap_60MeV_L2L2_posP posP_3 **Entries** 232 Mean -0.00393935 **RMS** 0.03079 χ^2 / ndf 11.15 / 13 30 Constant 29.59 ± 2.70 Mean -0.004438 ± 0.002194 25 Sigma 0.03044 ± 0.00216 20 15 10 5 -0.4-0.20.2 0.4 0.6

ap_60MeV_L1L1_loose_posP posP_4 **Entries** 2102 -0.002952Mean 250 0.04615 **RMS** χ^2 / ndf 97.39 / 35 253 ± 7.8 Constant 200 Mean -0.0027 ± 0.0007 Sigma 0.03147 ± 0.00067 150 100 50 _0.6 -0.20.2 -0.40.4 0.6

ap_60MeV_L1L2_loose_posP posP_5 90 **Entries** 599 Mean -0.00457180 **RMS** 0.03971 χ^2 / ndf 47.95 / 23 70 76.59 ± 4.41 Constant Mean -0.002726 ± 0.001221 60 Sigma 0.0286 ± 0.0011 50 40 30 20 10 0.6 -0.6 -0.40.2 0.4 0.6

ap_60MeV_L2L2_loose_posP posP_6 80 **Entries** 491 Mean -0.00642170 **RMS** 0.03744 χ^2 / ndf 26.76 / 20 Constant 59.95 ± 3.68 60 Mean -0.002847 ± 0.001463 Sigma 0.03094 ± 0.00128 50 40 30 20 10 _0.6 -0.2-0.40.2 0.4 0.6

ap_60MeV_L1L2_loose_extrap_posP posP_7 **Entries** 353 60 Mean -0.004161**RMS** 0.03662 50 χ^2 / ndf 31.31 / 19 Constant 47.93 ± 3.55 Mean -0.002784 ± 0.001507 40 Sigma 0.02671 ± 0.00131 30 20 10 _0.6 0.2 -0.40.4 0.6

