ap\_70MeV\_loose\_posP posP\_0 **Entries** 2326 Mean -0.003375300 **RMS** 0.04434  $\chi^2$  / ndf 99.15 / 34 Constant  $298.6 \pm 8.5$ 250  $-0.002843 \pm 0.000629$ Mean Sigma  $0.02955 \pm 0.00057$ 200 150 100 50 -0.6 -0.40.2 0.4 0.6

ap\_70MeV\_L1L1\_posP posP\_1 **Entries** 958 Mean -0.001162120 **RMS** 0.04357  $\chi^2$  / ndf 44.42 / 28  $125.2 \pm 5.3$ Constant 100 Mean  $-0.001944 \pm 0.000983$ Sigma  $0.02893 \pm 0.00076$ 80 60 40 20 0.6 -0.6 -0.40.2

0.4

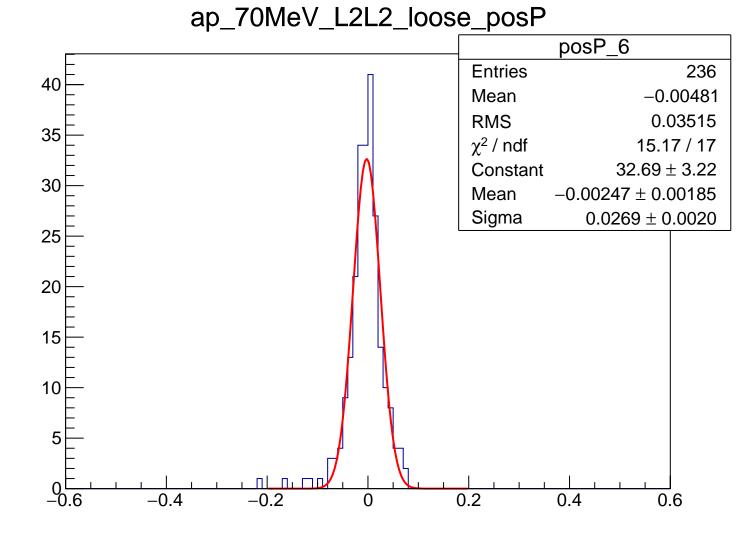
0.6

ap\_70MeV\_L1L2\_posP posP\_2 18 **Entries** 104 Mean -0.00717116 **RMS** 0.03119  $\chi^2$  / ndf 17.03 / 12 14  $15.08 \pm 2.13$ Constant Mean  $-0.008561 \pm 0.002682$ 12 Sigma  $0.02328 \pm 0.00231$ 10 8 6 4 2 0.6 -0.6 -0.4-0.20.2 0.4 0.6

ap\_70MeV\_L2L2\_posP posP\_3 **Entries** 86 Mean 0.001895 16 **RMS** 0.0272  $\chi^2$  / ndf 6.2 / 12 14  $12.61 \pm 2.00$ Constant Mean  $-0.0005352 \pm 0.0029239$ 12 Sigma  $0.02534 \pm 0.00294$ 10 8 6 4 2 -0.4-0.20.2 0.4 0.6

ap\_70MeV\_L1L1\_loose\_posP posP\_4 200 **Entries** 1423 Mean -0.002183180 **RMS** 0.04759  $\chi^2$  / ndf 62.79 / 32 160 Constant  $182.7 \pm 6.6$ 140 Mean  $-0.003049 \pm 0.000809$ Sigma  $0.02944 \pm 0.00070$ 120 100 80 60 40 20 \_0.6 -0.40.2 0.4 0.6

ap\_70MeV\_L1L2\_loose\_posP posP\_5 **Entries** 387 60 Mean -0.006881**RMS** 0.04146 50  $\chi^2$  / ndf 27.68 / 24 Constant  $50.17 \pm 3.53$  $-0.003315 \pm 0.001509$ Mean 40 Sigma  $0.02842 \pm 0.00132$ 30 20 10 0.6 -0.6 -0.40.2 0.4 0.6



ap\_70MeV\_L1L2\_loose\_extrap\_posP posP\_7 45 **Entries** 234 Mean -0.00350840 **RMS** 0.03711  $\chi^2$  / ndf 25.15 / 19 35  $32.89 \pm 3.00$ Constant Mean  $-0.0007594 \pm 0.0017840$ 30 Sigma  $0.02527 \pm 0.00152$ 25 20 15 10 5 -0.40.2 0.4 0.6

ap\_70MeV\_L2L2\_loose\_extrap\_posP posP\_8 **Entries** 200 35 Mean -0.005052**RMS** 0.03676  $\chi^2$  / ndf 15.95 / 17 30 Constant  $26.5 \pm 2.9$ Mean  $-0.002019 \pm 0.002090$ 25 Sigma  $0.02765 \pm 0.00229$ 20 15 10 5 -0.40.2 0.4 0.6