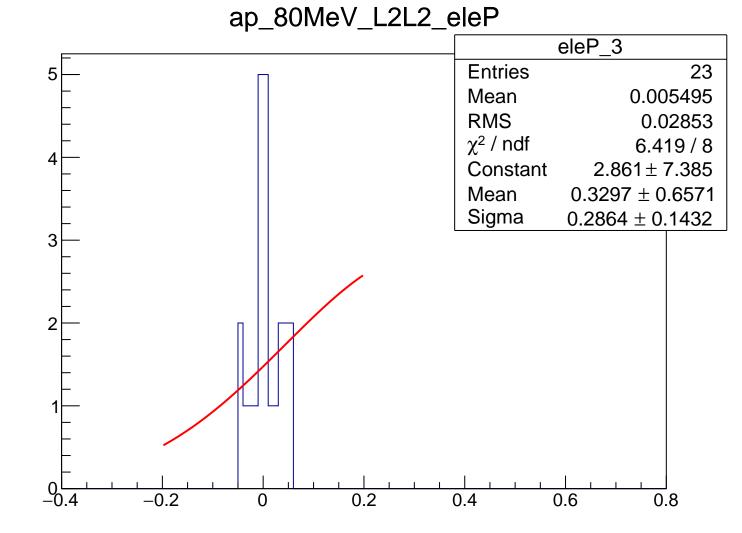
ap\_80MeV\_loose\_eleP eleP\_0 220 **Entries** 1573 Mean 0.03039 200 **RMS** 0.123 180  $\chi^2$  / ndf 92.1 / 34 Constant  $178.8 \pm 6.8$ 160 Mean  $-0.003546 \pm 0.000827$ 140 Sigma  $0.03019 \pm 0.00080$ 120 100 80 60 40 20 0.6 8.0

ap\_80MeV\_L1L1\_eleP eleP\_1 **Entries** 585 Mean 0.04087 70 **RMS** 0.1445  $\chi^2$  / ndf 30.15 / 23 60 Constant  $67.53 \pm 4.25$ Mean  $-0.004726 \pm 0.001326$ 50 Sigma  $0.0291 \pm 0.0013$ 40 30 20 10 0.6 8.0

ap\_80MeV\_L1L2\_eleP eleP\_2 8 **Entries** 37 Mean 0.00324 **RMS** 0.02963  $\chi^2$  / ndf 10.34 / 11  $2.938 \pm 0.904$ Constant 6 Mean  $0.003199 \pm 0.010431$ Sigma  $0.03906 \pm 0.01367$ 5 4 3 2 -0.20.2 0.6 0.4 8.0



ap\_80MeV\_L1L1\_loose\_eleP eleP\_4 **Entries** 1003 Mean 0.04203 120 **RMS** 0.1432  $\chi^2$  / ndf 67.73 / 33 100  $110.8 \pm 5.6$ Constant  $-0.004368 \pm 0.001036$ Mean Sigma  $0.02963 \pm 0.00107$ 80 60 40 20 8.0

ap\_80MeV\_L1L2\_loose\_eleP eleP\_5 **Entries** 238 35 Mean 0.01493 **RMS** 0.08589  $\chi^2$  / ndf 19.71 / 17 30 Constant  $29.08 \pm 2.80$ Mean  $-0.005151 \pm 0.002030$ 25 Sigma  $0.02859 \pm 0.00199$ 20 15 10 5 0.2 0.6 0.4 8.0

ap\_80MeV\_L2L2\_loose\_eleP eleP\_6 25 **Entries** 140 Mean 0.00396 **RMS** 0.03268 20  $\chi^2$  / ndf 10.9 / 15  $18.46 \pm 2.28$ Constant Mean  $0.002256 \pm 0.002663$ Sigma  $0.0284 \pm 0.0027$ 15 10 5 -0.4 -0.20.2 0.6 0.4 8.0

ap\_80MeV\_L1L2\_loose\_extrap\_eleP eleP\_7 25 **Entries** 143 Mean 0.006289 **RMS** 0.05792  $\chi^2$  / ndf 16.28 / 16 20  $16.29 \pm 2.07$ Constant Mean  $-0.004187 \pm 0.002940$ Sigma  $0.03086 \pm 0.00308$ 15 10 5 0.2 0.4 0.6 8.0

ap\_80MeV\_L2L2\_loose\_extrap\_eleP eleP\_8 **Entries** 100 Mean 0.004955 16 **RMS** 0.03171  $\chi^2$  / ndf 12.56 / 13 14  $11.33 \pm 1.79$ Constant Mean  $0.003824 \pm 0.003951$ 12 Sigma  $0.03182 \pm 0.00440$ 10 8 6 4 2 -0.20.2 0.4 0.6 8.0