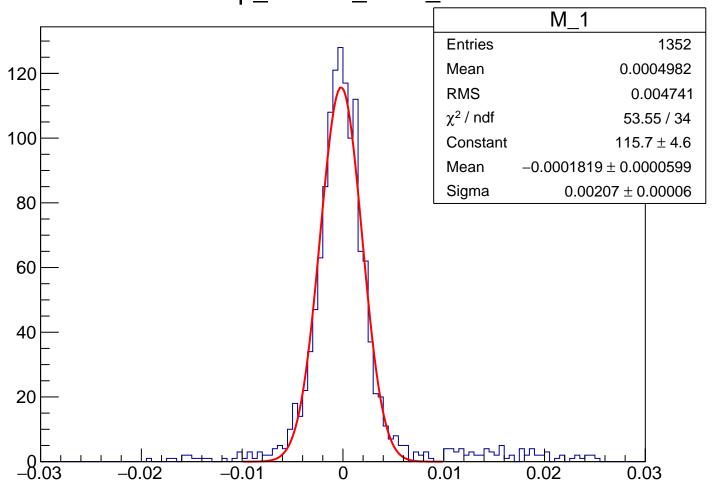
ap\_35MeV\_loose\_M  $M_0$ 300 **Entries** 3466 Mean 0.000393 **RMS** 0.00461 250  $\chi^2$  / ndf 139.8 / 37 Constant  $255.2\pm6.6$  $-0.0001153 \pm 0.0000436$ Mean 200 Sigma  $0.002428 \pm 0.000045$ 150 100 50 -0.03 -0.02-0.010.01 0.02 0.03

ap\_35MeV\_L1L1\_M



ap\_35MeV\_L1L2\_M M\_2 **Entries** 330 40 Mean 0.0002269 **RMS** 0.002278 35  $\chi^2$  / ndf 24.61 / 24 Constant  $30.66 \pm 2.43$ 30 Mean  $0.0001362 \pm 0.0001149$ Sigma  $0.001983 \pm 0.000110$ 25 20 15 10 5 \_0.03

0.02

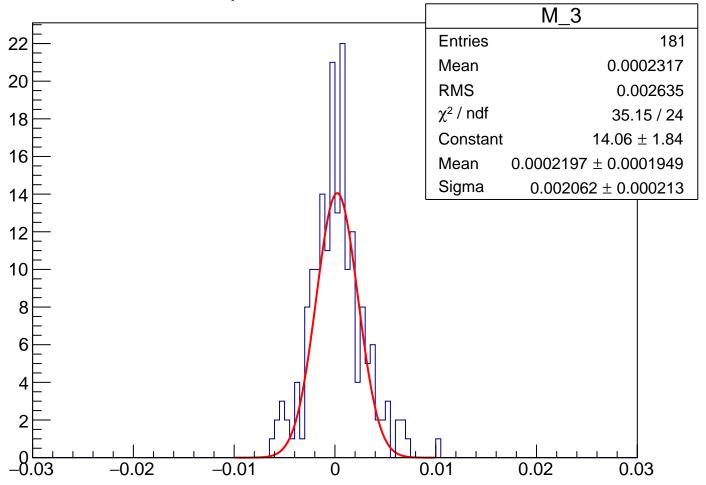
0.01

0.03

-0.02

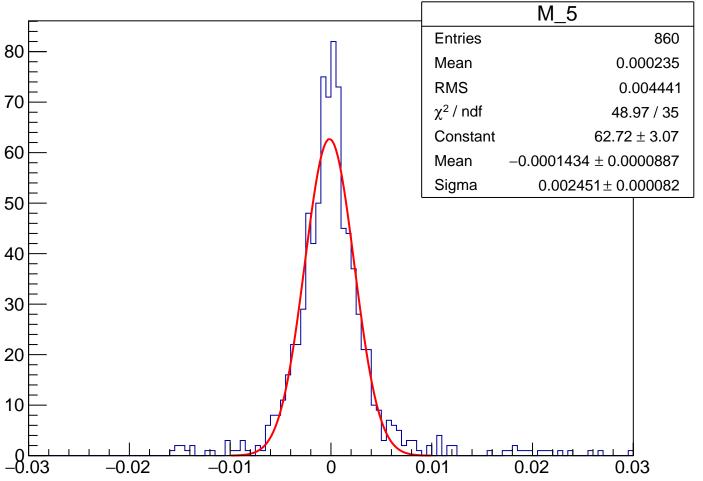
-0.01

ap\_35MeV\_L2L2\_M



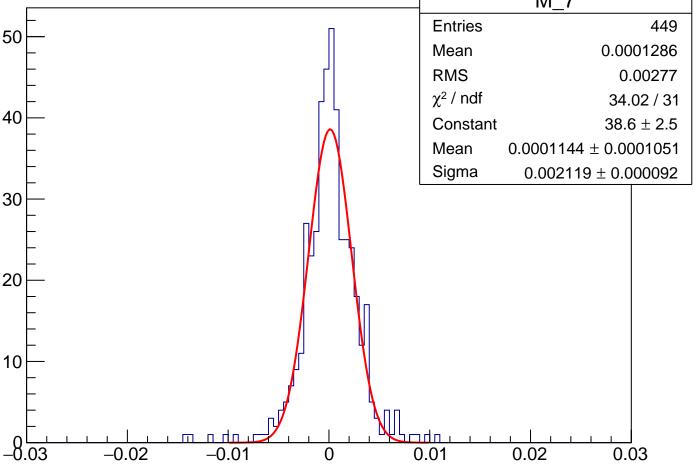
ap\_35MeV\_L1L1\_loose\_M M\_4 **Entries** 1851 Mean 0.0006078 140 **RMS** 0.005194  $\chi^2$  / ndf 91.54 / 37 120 Constant  $138.7 \pm 5.0$ Mean  $-0.0001722 \pm 0.0000573$ 100 Sigma  $0.002284 \pm 0.000059$ 80 60 40 20 \_0.03 -0.02-0.010.01 0.02 0.03

ap\_35MeV\_L1L2\_loose\_M



ap\_35MeV\_L2L2\_loose\_M M\_6 **Entries** 410 40 Mean -0.0001982**RMS** 0.00258 35  $\chi^2$  / ndf 39.21 / 28 Constant  $35.19 \pm 2.48$ 30 Mean  $-0.0001331 \pm 0.0001110$ Sigma  $0.0021 \pm 0.0001$ 25 20 15 10 5 \_0.03 -0.02-0.010.01 0.02 0.03

ap\_35MeV\_L1L2\_loose\_extrap\_M M\_7 **Entries** 449 Mean 0.0001286 **RMS** 0.00277  $\chi^2$  / ndf 34.02 / 31 Constant  $38.6 \pm 2.5$ Mean  $0.0001144 \pm 0.0001051$ Sigma  $0.002119 \pm 0.000092$ 



ap\_35MeV\_L2L2\_loose\_extrap\_M M\_8 **Entries** 263 30 Mean 0.0001478 **RMS** 0.002607  $\chi^2$  / ndf 49.27 / 25 25 Constant  $21.15 \pm 2.16$ Mean  $0.0001268 \pm 0.0001510$ Sigma  $0.002011 \pm 0.000155$ 20 15 10 5 \_0.03 -0.02-0.010.01 0.02 0.03