

PhiThetaMassPip Proj_09 **Entries** 3000 χ^2 / ndf 4.52e-14 / 0 Norm 3136 ± 52561.8 Mean 0.9893 ± 0.0932 2500 σ 0.009805 ± 0.130081 Pol Amp 375.8 ± 1456.3 0.8375 ± 0.0100 const term 2000 linear term 0.2733 ± 0.0107 quad term -0.3255 ± 0.0113 -0.9613 ± 0.0120 cube term 1500 1000 500 8.8

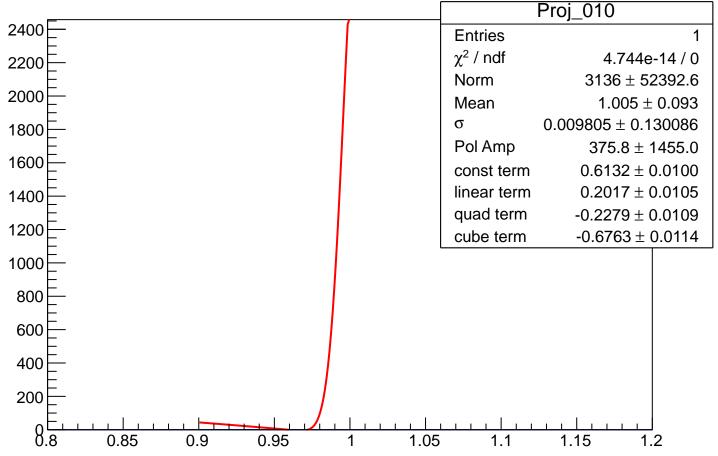
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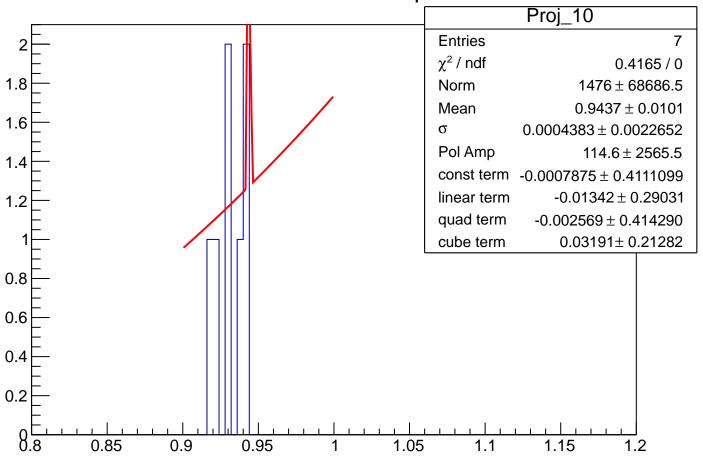
0.85

0.9



PhiThetaMassPip Proj_011 **Entries** 3000 χ^2 / ndf 4.466e-14 / 0 Norm 3136 ± 52603.4 Mean 0.9853 ± 0.0932 2500 σ 0.009805 ± 0.130080 Pol Amp 375.8 ± 1456.6 0.8928 ± 0.0101 const term 2000 linear term 0.2908 ± 0.0107 quad term -0.3509 ± 0.0114 -1.035 ± 0.012 cube term 1500 1000 500 8.8 0.85 0.9 0.95 1.05 1.15

PhiThetaMassPip Proj_013 **Entries** 2 χ^2 / ndf 1.434e-08 / 0 Norm 83.97 ± 6.94 0.9602 ± 0.0748 Mean σ -162.8 ± 1.4 Pol Amp 1.204 ± 0.101 8.0 const term -49.69 ± 1.38 -27.17 ± 1.38 linear term quad term -5.982 ± 1.382 0.6 cube term 13.98 ± 1.38 0.4 0.2 8.8 0.85 0.9 0.95 1.05 1.15



PhiThetaMassPip Proj_11 21 **Entries** χ^2 / ndf 3.7 / 2 Norm $6.617e+04 \pm 1.751e+04$ 3.5 Mean 0.914 ± 0.009 σ $7.532e-06 \pm 1.958e-03$ 3 Pol Amp 163.7 ± 87.7 const term 0.02146 ± 0.02873 2.5 linear term -0.01415 ± 0.02229 quad term -0.01625 ± 0.01741 2 0.01751 ± 0.04510 cube term 1.5 0.5

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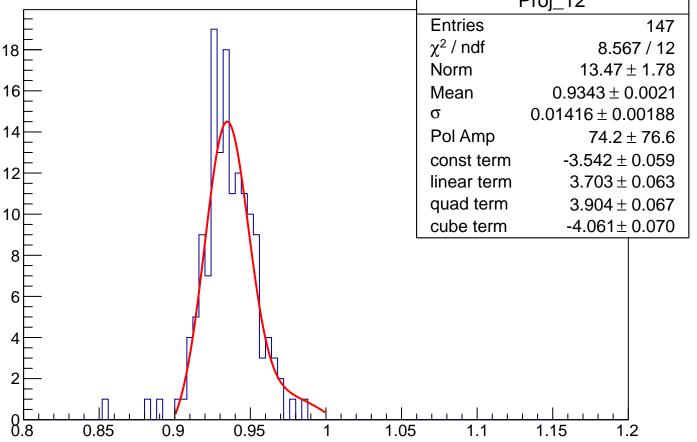
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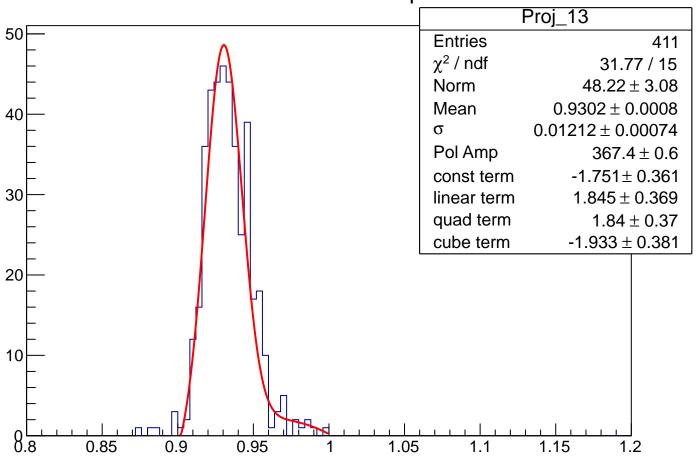
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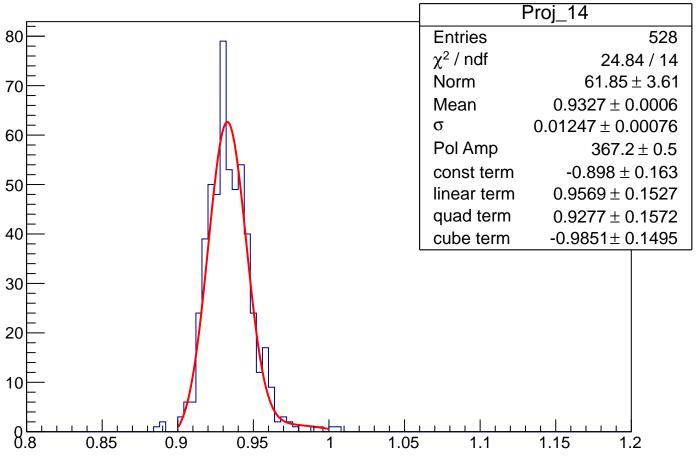
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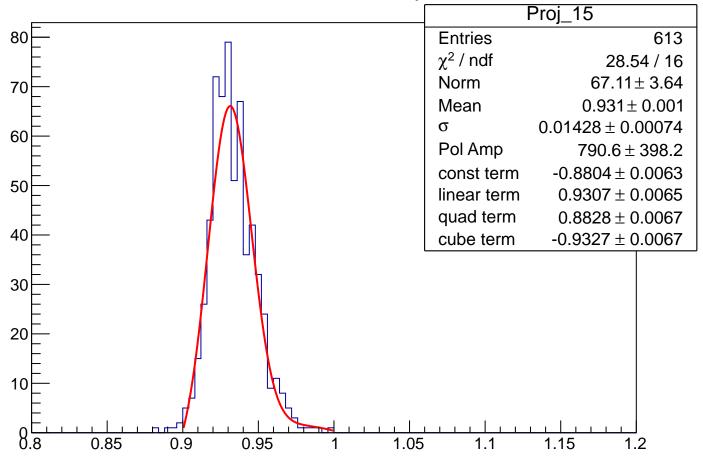
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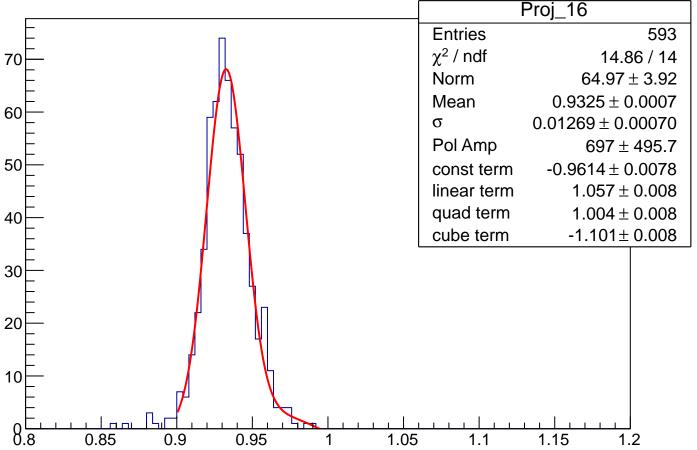
PhiThetaMassPip Proj_12 **Entries** 147 χ^2 / ndf 8.567 / 12 Norm 13.47 ± 1.78 Mean 0.9343 ± 0.0021 0.01416 ± 0.00188 σ Pol Amp 74.2 ± 76.6 const term -3.542 ± 0.059 linear term 3.703 ± 0.063 quad term 3.904 ± 0.067 cube term -4.061 ± 0.070











PhiThetaMassPip Proj_17 **Entries** 602 80 χ^2 / ndf 22.94 / 13 Norm 71.24 ± 3.82 70 0.9312 ± 0.0007 Mean σ 0.01296 ± 0.00081 60 Pol Amp 367.9 ± 0.5 const term -0.1937 ± 0.0537 50 linear term 0.1865 ± 0.0262 quad term 0.1808 ± 0.0339 -0.1709 ± 0.0379 cube term 40 30 20 10

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PhiThetaMassPip Proj_18 **Entries** 559 χ^2 / ndf 20.81 / 13 70 Norm 64.74 ± 3.70 Mean 0.929 ± 0.001 60 σ 0.01344 ± 0.00111 Pol Amp 364.8 ± 0.8 50 const term -2.85 ± 0.52 2.995 ± 0.510 linear term quad term 2.955 ± 0.519 40 cube term -3.099 ± 0.513 30 20 10

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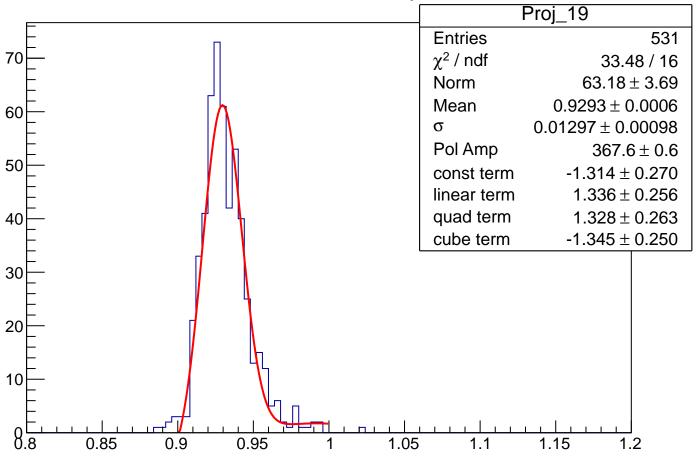
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PhiThetaMassPip Proj_110 **Entries** 487 χ^2 / ndf 10.54 / 13 Norm 55.71 ± 3.29 Mean 0.9278 ± 0.0010 σ 0.01381 ± 0.00082 Pol Amp 565.8 ± 188.4 const term -2.564 ± 0.011 linear term 2.714 ± 0.011 quad term 2.697 ± 0.011 cube term -2.851 ± 0.012

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40

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20

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8.8

0.85

PhiThetaMassPip Proj_111 **Entries** 387 45 χ^2 / ndf 13.99 / 11 Norm 47.96 ± 3.32 40 Mean 0.9246 ± 0.0014 σ 0.01487 ± 0.00120 35 Pol Amp 346.8 ± 107.4 const term -5.134 ± 0.017 30 linear term 5.297 ± 0.017 quad term 5.506 ± 0.018 25 cube term -5.675 ± 0.019 20 15 10 5 0.8 8.8

1.05

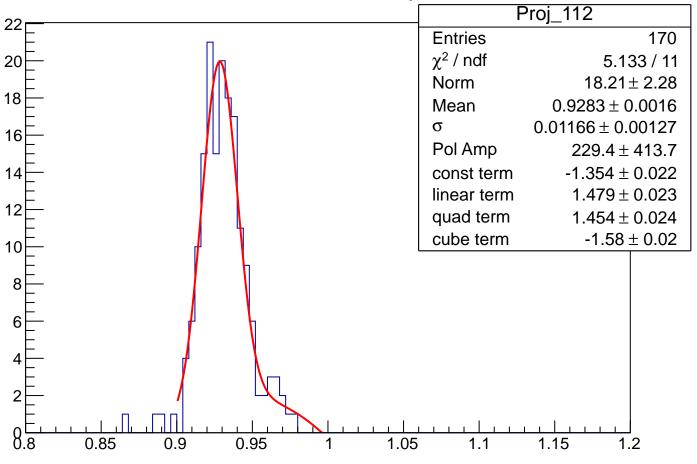
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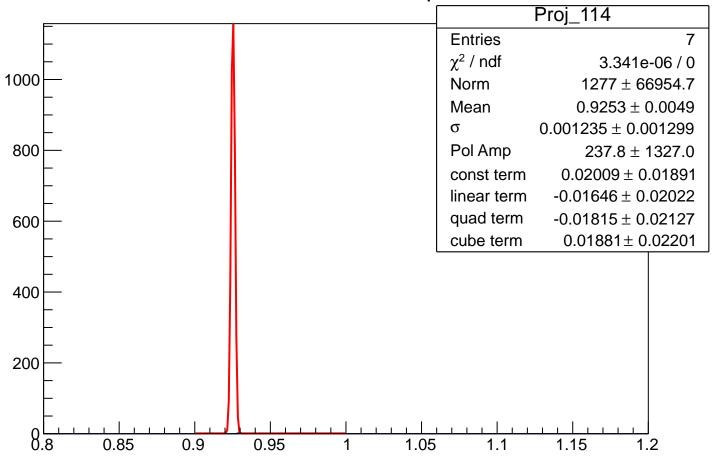
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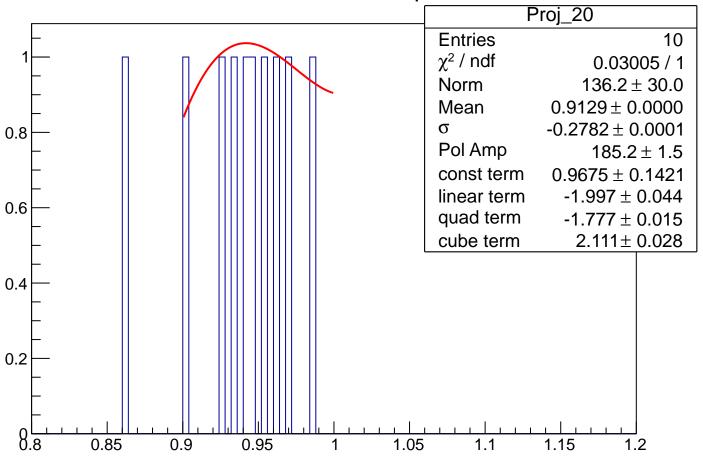
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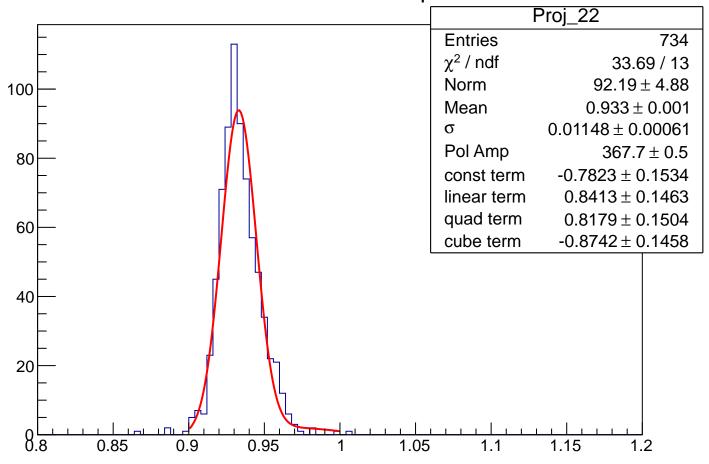


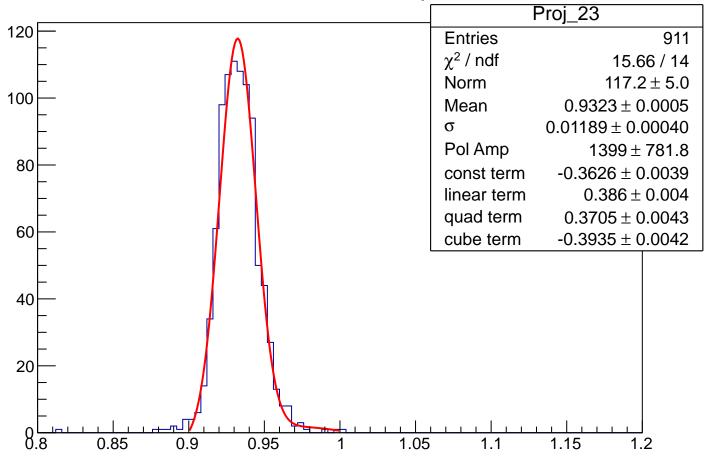
PhiThetaMassPip Proj_113 **Entries** 31 6 χ^2 / ndf 5.199 / 8 Norm 3.389 ± 2.843 Mean 0.9461 ± 0.0000 5 σ -0.04566 ± 0.00003 Pol Amp 88.09 ± 0.29 const term 0.05108 ± 0.03535 4 -0.05501 ± 0.01335 linear term quad term -0.06093 ± 0.01733 3 cube term 0.04439 ± 0.04583 2 8.8 0.85 0.9 0.95 1.05 1.15

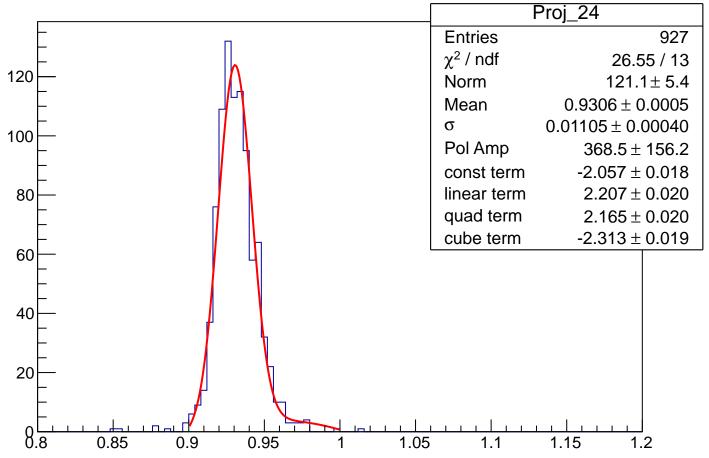


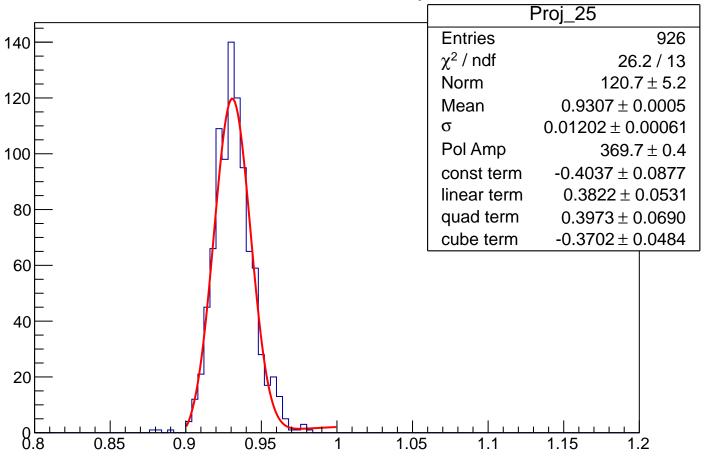


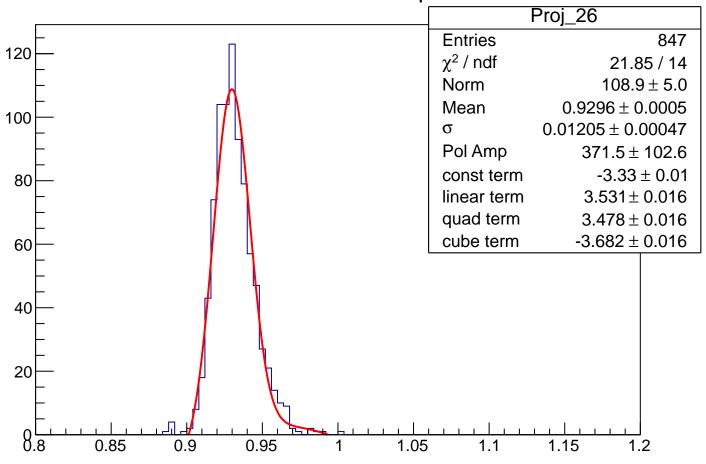
PhiThetaMassPip Proj_21 **Entries** 106 18 χ^2 / ndf 14.31 / 8 Norm 17.3 ± 2.5 16 Mean 0.9317 ± 0.0000 σ 0.005802 ± 0.000003 14 Pol Amp 347.7 ± 0.0 const term 0.03385 ± 0.01320 12 linear term -0.03248 ± 0.00465 quad term -0.0332 ± 0.0051 10 cube term 0.0371 ± 0.0157 8 6 4 2 8.8 0.85 0.9 0.95 1.05 1.1 1.15 1.2











PhiThetaMassPip Proj_27 **Entries** 826 120 χ^2 / ndf 22.06 / 14 Norm 108.3 ± 5.3 Mean 0.9304 ± 0.0005 100 0.01075 ± 0.00041 σ Pol Amp 370.7 ± 147.4 const term -3.169 ± 0.015 80 linear term 3.443 ± 0.016 quad term 3.357 ± 0.017 cube term -3.638 ± 0.017 60 40 20

1.05

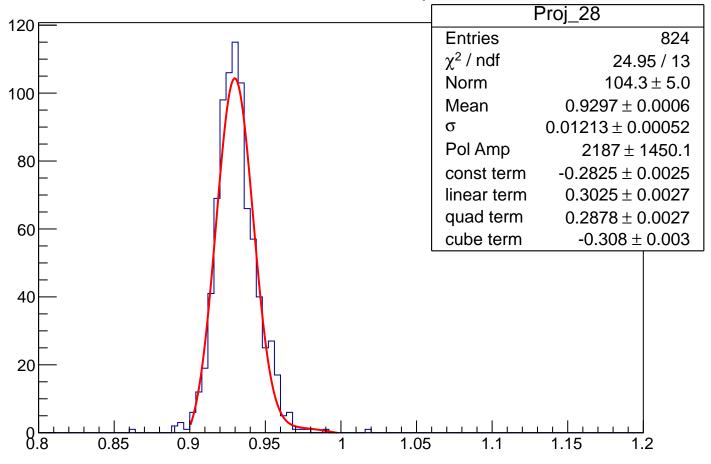
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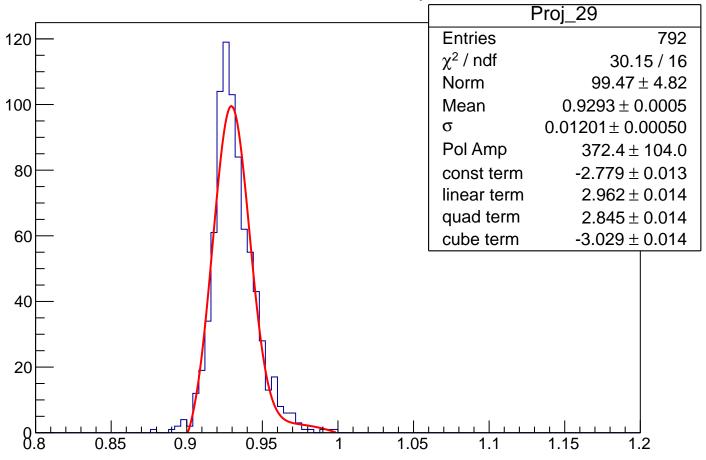
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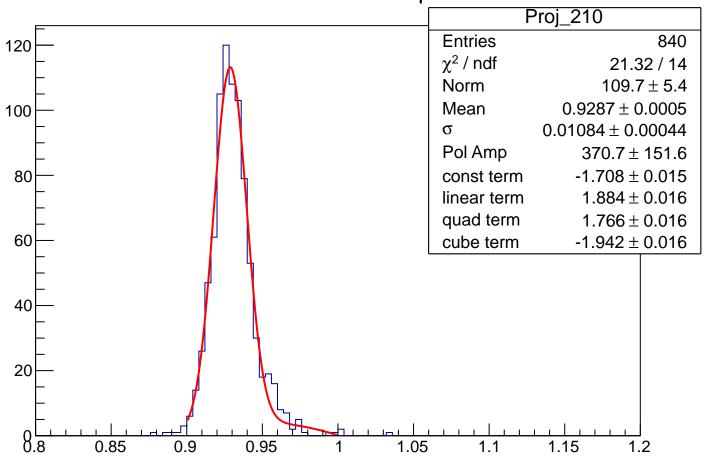
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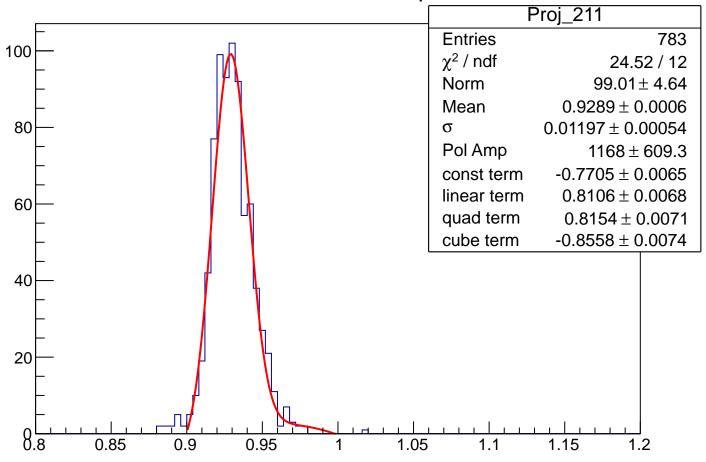
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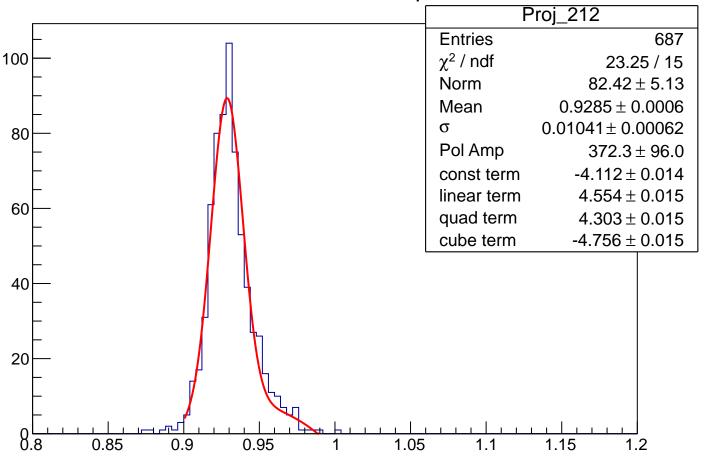
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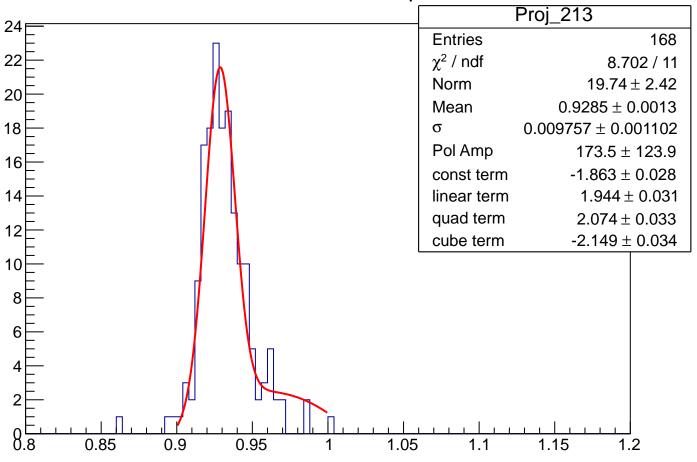


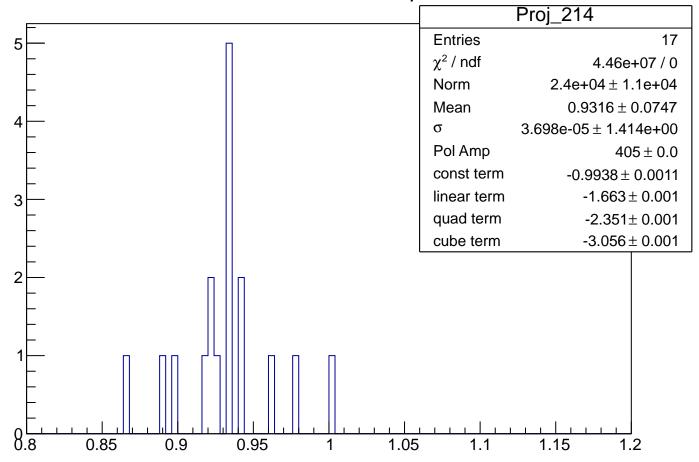


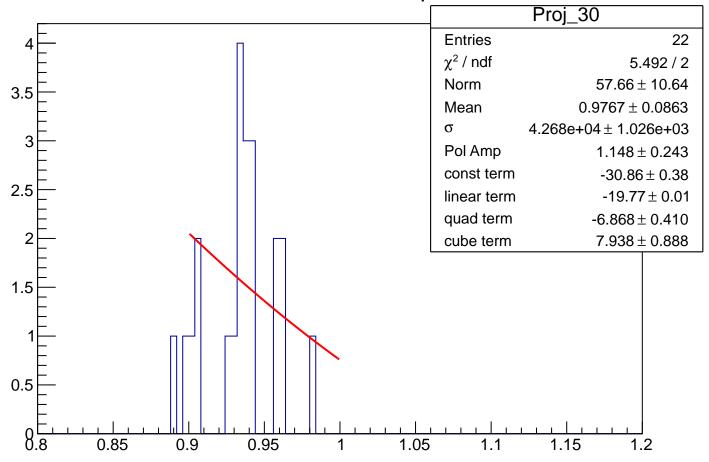












PhiThetaMassPip Proj_31 **Entries** 488 χ^2 / ndf 19.53 / 10 70 Norm 62.53 ± 4.39 Mean 0.9322 ± 0.0006 60 σ 0.01046 ± 0.00066 Pol Amp 358.2 ± 1.0 50 const term -1.416 ± 0.307 linear term 1.542 ± 0.319 quad term 1.573 ± 0.332 40 cube term -1.703 ± 0.347 30 20 10

1.05

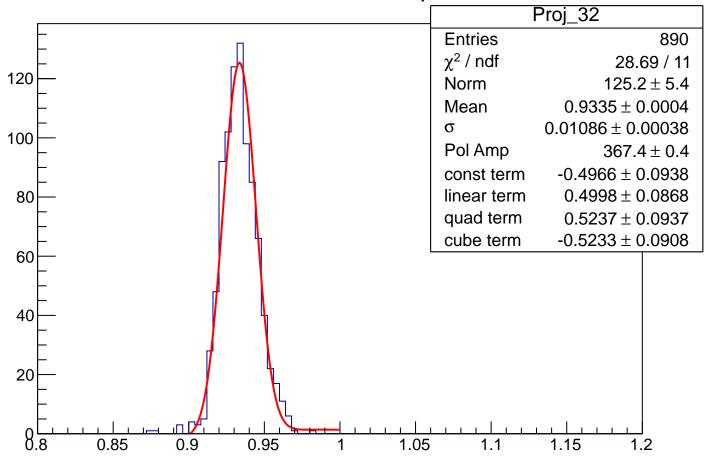
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PhiThetaMassPip Proj_33 **Entries** 955 χ^2 / ndf 13.18 / 13 140 Norm 134.9 ± 5.9 Mean 0.9326 ± 0.0004 120 σ 0.01064 ± 0.00042 Pol Amp 369.4 ± 0.3 100 const term -0.389 ± 0.084 linear term 0.4157 ± 0.0732 quad term 0.4097 ± 0.0789 80 -0.4321 ± 0.0722 cube term 60 40 20

1.05

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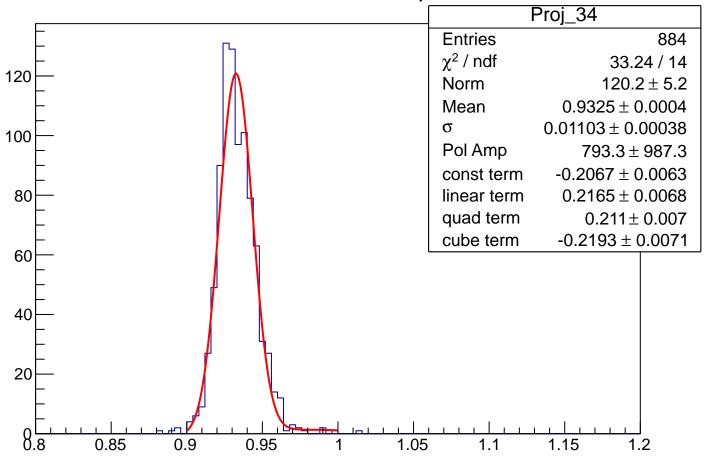
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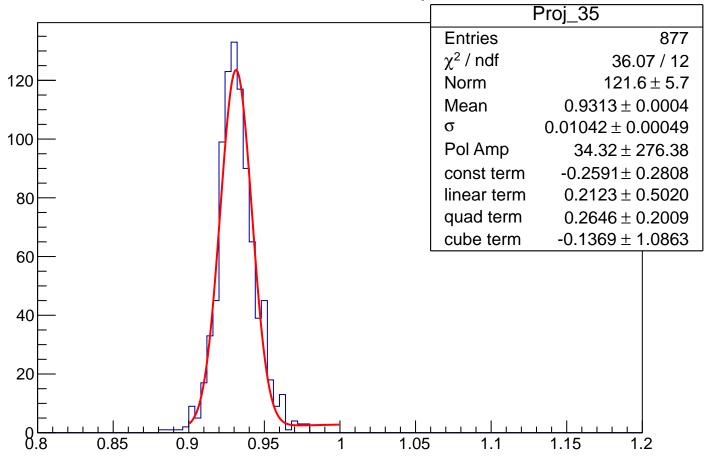
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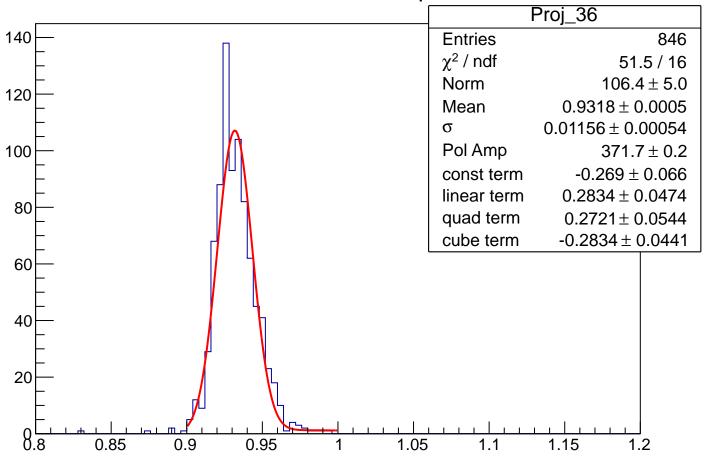
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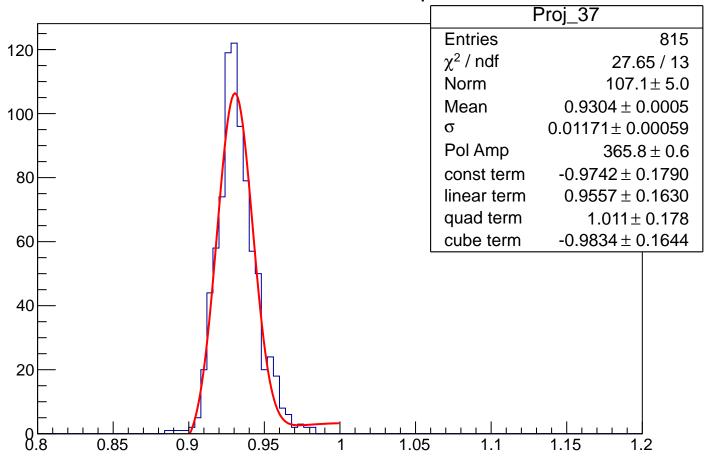
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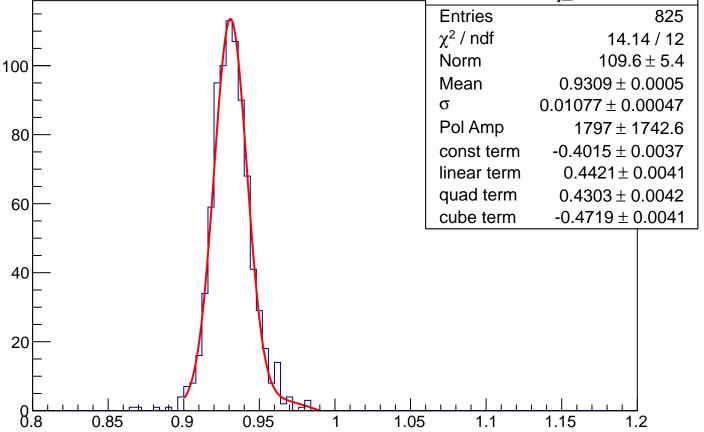


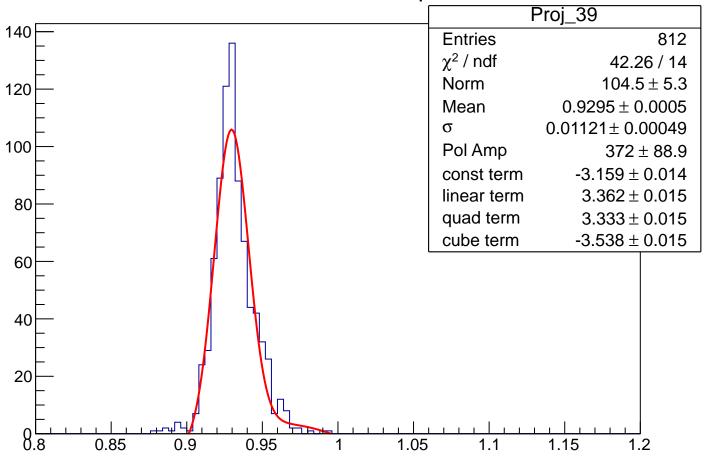


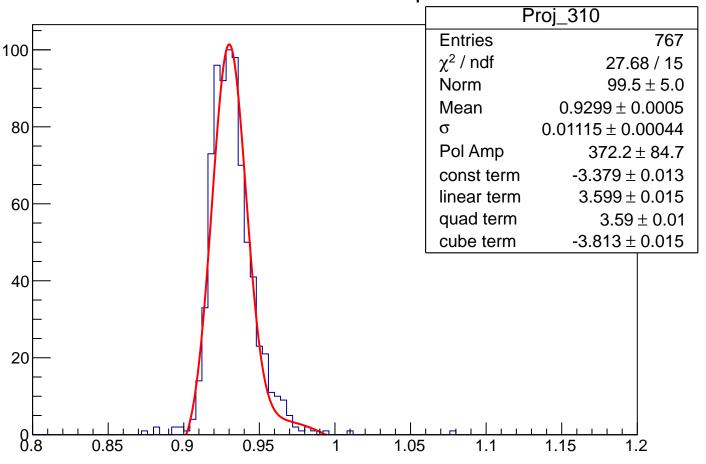




PhiThetaMassPip Proj_38 **Entries** 825 χ^2 / ndf 14.14 / 12 Norm 109.6 ± 5.4 Mean 0.9309 ± 0.0005 σ 0.01077 ± 0.00047 Pol Amp 1797 ± 1742.6 const term -0.4015 ± 0.0037 linear term 0.4421 ± 0.0041 quad term 0.4303 ± 0.0042 -0.4719 ± 0.0041 cube term







PhiThetaMassPip Proj_311 120 **Entries** 744 χ^2 / ndf 31.88 / 14 Norm 99.67 ± 5.24 100 Mean 0.9293 ± 0.0005 σ 0.01024 ± 0.00043 Pol Amp 371.6 ± 108.1 80 const term -3.322 ± 0.014 linear term 3.612 ± 0.015 quad term 3.459 ± 0.016 60 cube term -3.752 ± 0.015 40 20

1.05

1.15

1.2

8.8

0.85

0.9

PhiThetaMassPip Proj_312 **Entries** 753 χ^2 / ndf 17.05 / 13 Norm 105 ± 5.2 100 0.9292 ± 0.0005 Mean σ 0.0104 ± 0.0004 Pol Amp 370.1 ± 132.0 80 const term -2.495 ± 0.015 2.689 ± 0.017 linear term quad term 2.618 ± 0.017 60 -2.813 ± 0.017 cube term 40 20

1.05

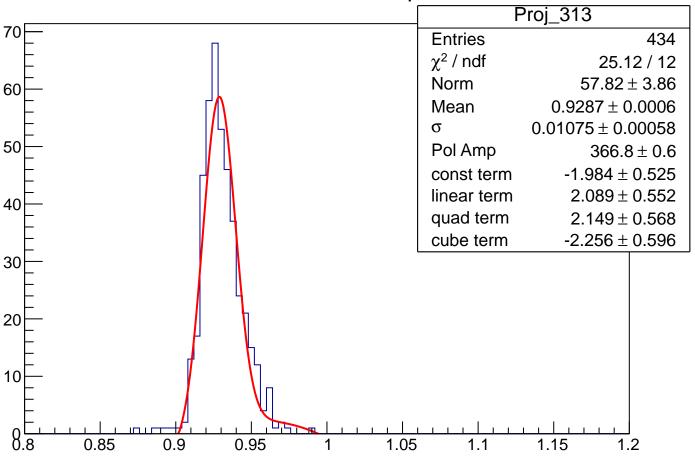
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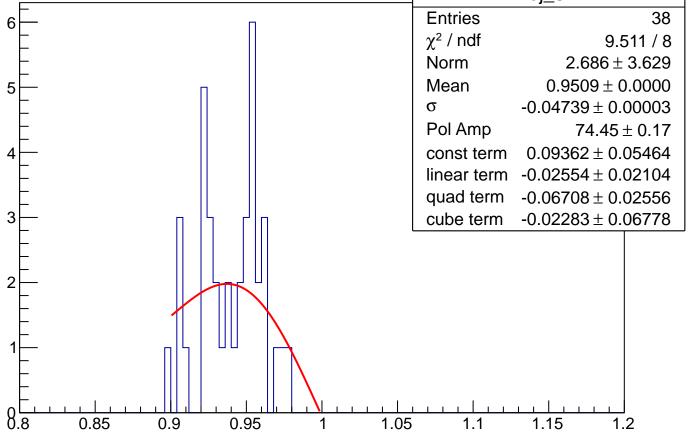
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PhiThetaMassPip Proj_314 **Entries** 38 χ^2 / ndf 9.511 / 8 Norm 2.686 ± 3.629 Mean 0.9509 ± 0.0000 σ -0.04739 ± 0.00003 Pol Amp 74.45 ± 0.17 const term 0.09362 ± 0.05464 -0.02554 ± 0.02104 linear term quad term -0.06708 ± 0.02556 cube term -0.02283 ± 0.06778



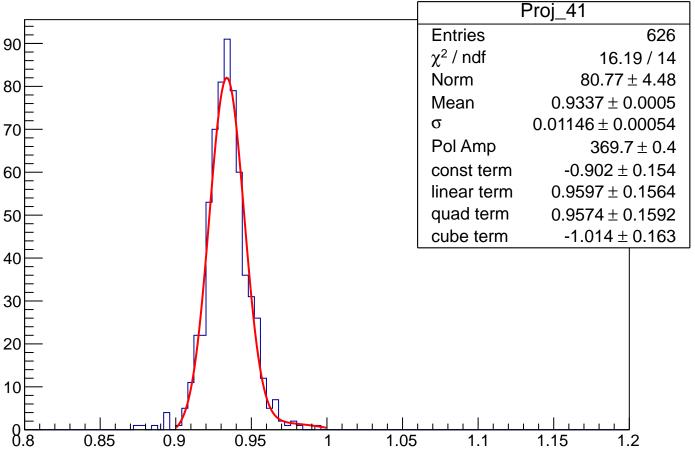
PhiThetaMassPip Proj_40 **Entries** 19 5 χ^2 / ndf 5.199 / 1 Norm 91.27 ± 40.60 0.9819 ± 0.0788 Mean 4 σ 223.9 ± 1.4 Pol Amp 1.501 ± 0.583 const term -41.51± 4.77 -23.92 ± 8.48 linear term 3 quad term -6.326 ± 7.122 11.72 ± 7.01 cube term 2 8.8

1.05

1.15

0.85

0.9



PhiThetaMassPip Proj_42 **Entries** 896 χ^2 / ndf 36.63 / 15 120 Norm 125.6 ± 5.4 Mean 0.9354 ± 0.0004 100 σ 0.01066 ± 0.00033 Pol Amp 371.1 ± 0.3 const term -0.4435 ± 0.0907 80 0.4369 ± 0.0905 linear term quad term 0.4677 ± 0.0955 cube term -0.4556 ± 0.0968 60 40 20

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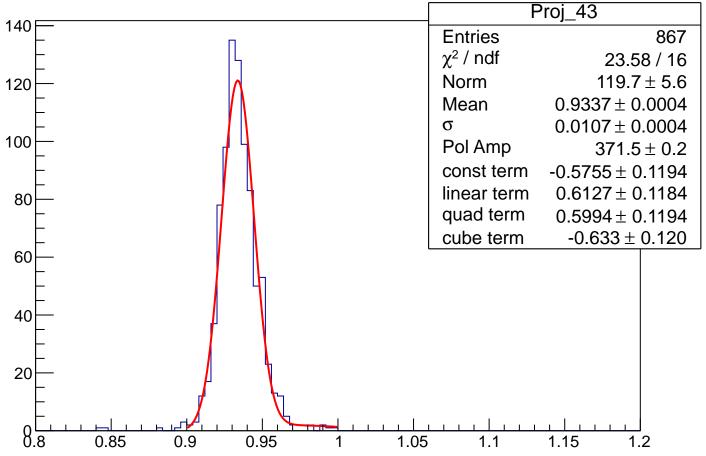
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PhiThetaMassPip Proj_44 **Entries** 813 120 χ^2 / ndf 15.35 / 11 Norm 116.5 ± 5.6 Mean 0.933 ± 0.000 100 σ 0.01036 ± 0.00044 Pol Amp 365.7 ± 0.6 const term -0.5033 ± 0.1189 80 linear term 0.5391 ± 0.1122 quad term 0.5512 ± 0.1208 -0.5836 ± 0.1182 cube term 60 40 20 8.8

1.05

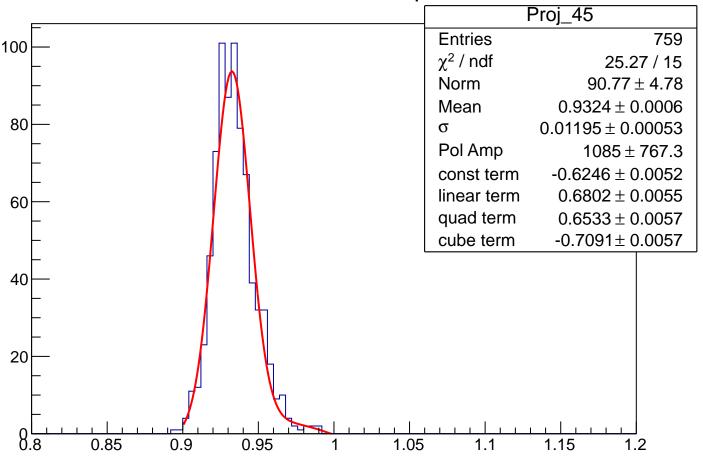
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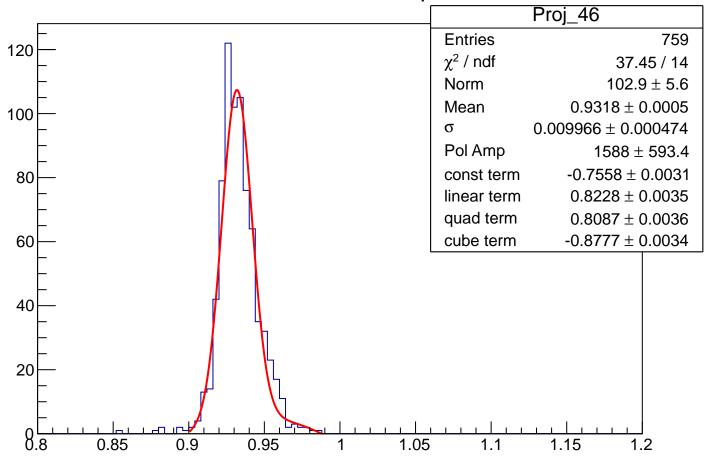
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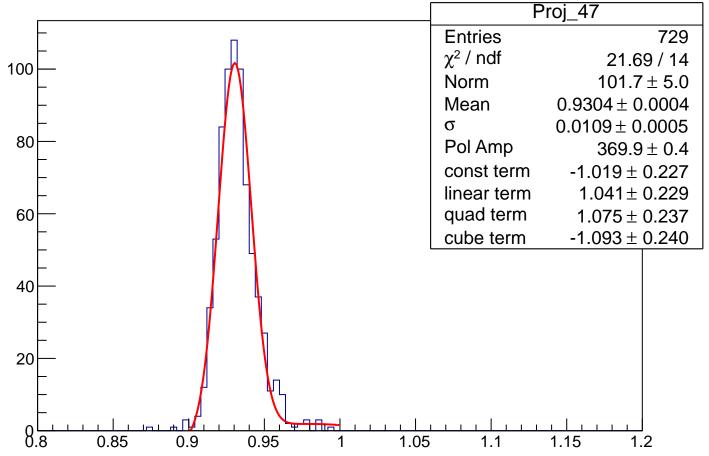
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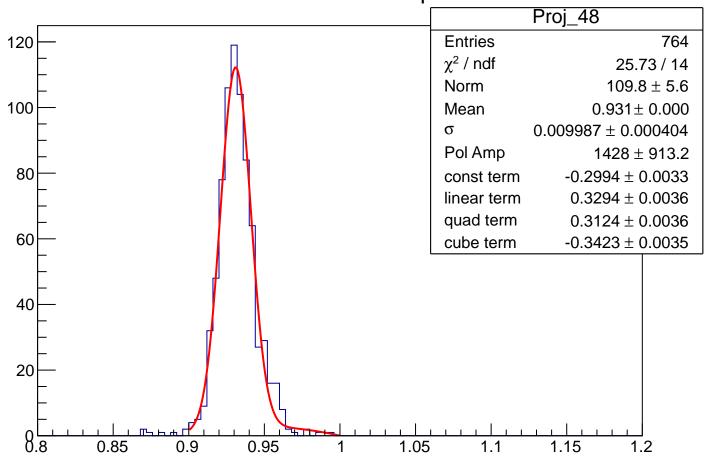
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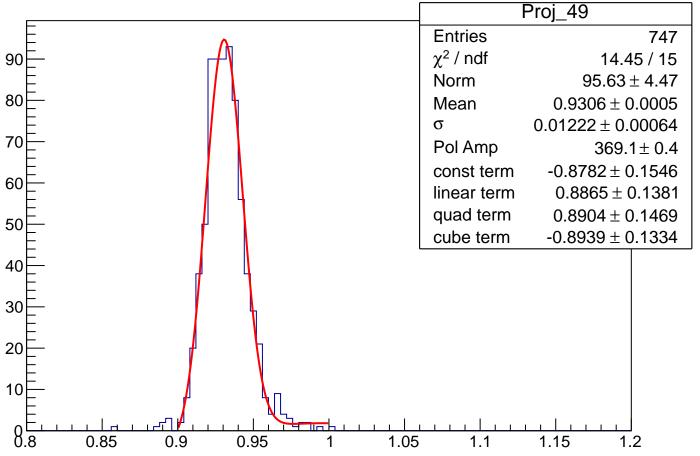
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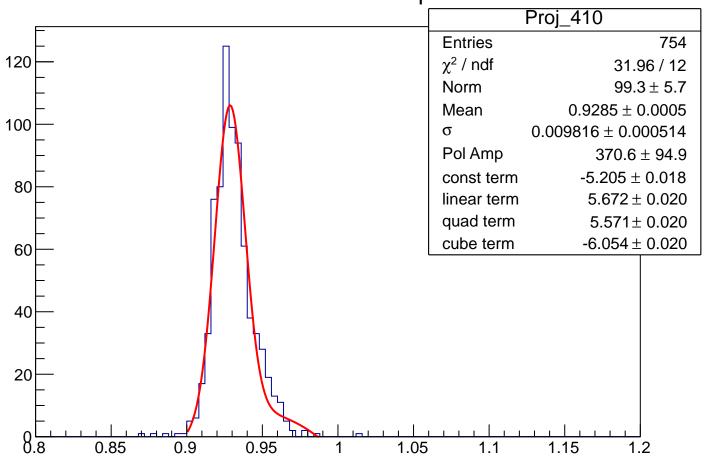












PhiThetaMassPip Proj_411 **Entries** 695 χ^2 / ndf 30.26 / 13 100 Norm 96.6 ± 5.3 Mean 0.9293 ± 0.0005 σ 0.01002 ± 0.00048 Pol Amp 1520 ± 1092.7 80 const term -0.2714 ± 0.0033 linear term 0.303 ± 0.003 quad term 0.2841 ± 0.0035 60 cube term -0.316 ± 0.004 40 20

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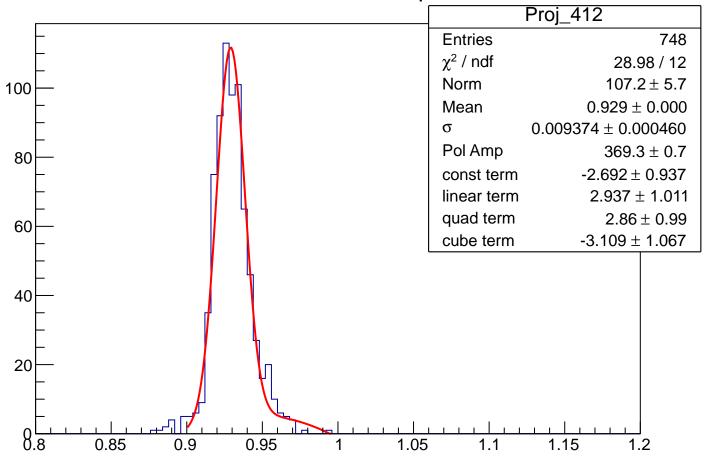
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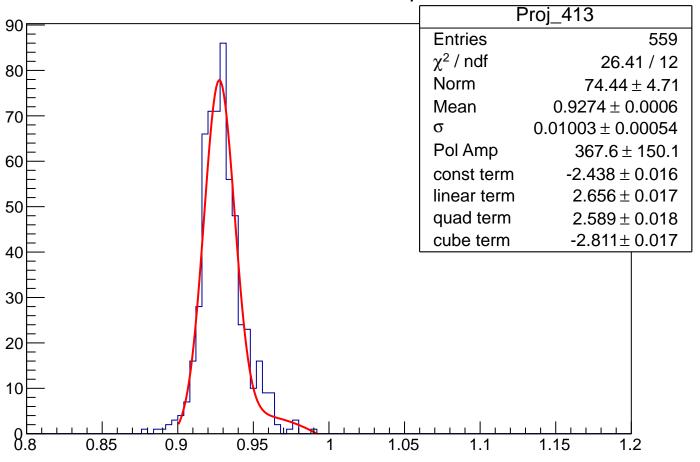
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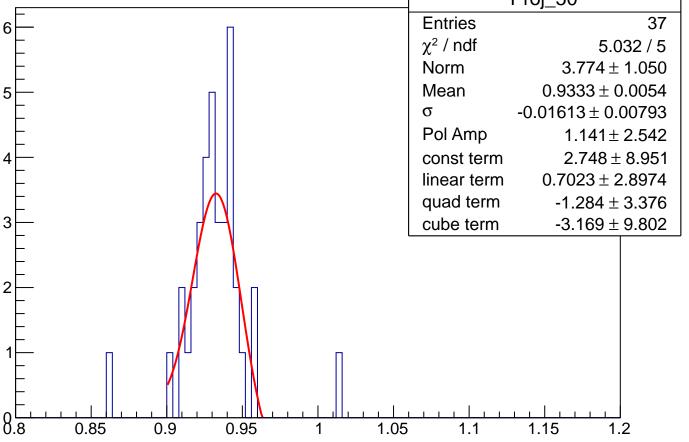
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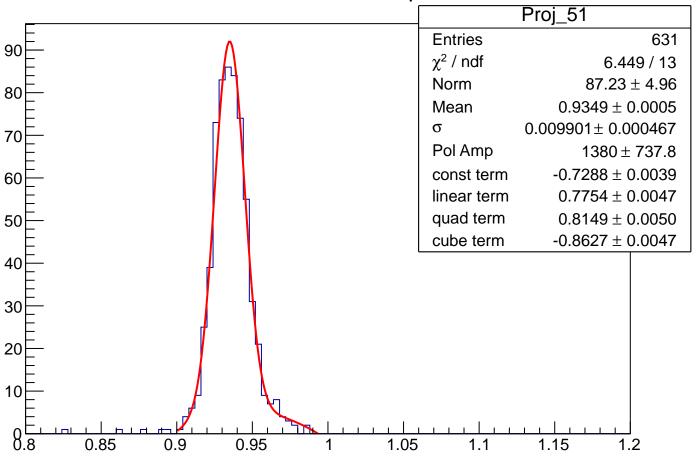


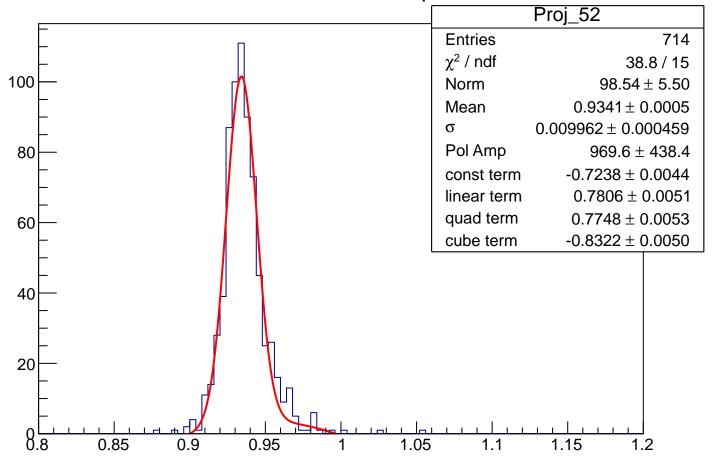


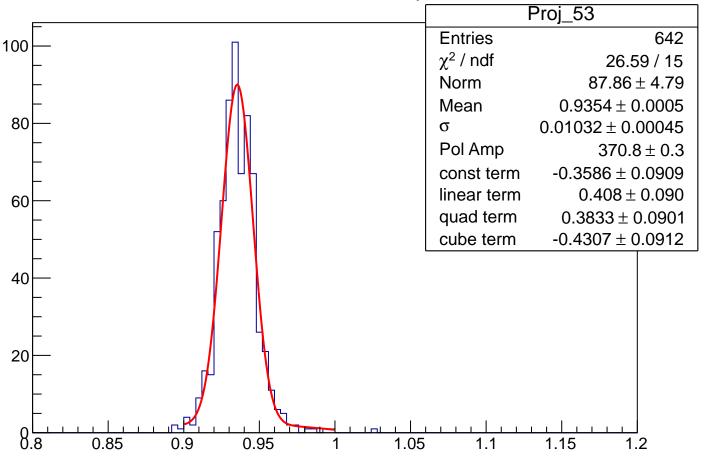
PhiThetaMassPip Proj_414 **Entries** 52 6 χ^2 / ndf 17.09 / 8 Norm 4.001 ± 0.128 Mean 0.9293 ± 0.0001 5 σ 0.00139 ± 3.53304 Pol Amp 18.68 ± 2.26 const term 0.1326 ± 0.0004 4 linear term 0.02154 ± 0.00034 quad term -0.0355 ± 0.0003 3 -0.03381 ± 0.00030 cube term 2 8.8 0.85 0.9 0.95 1.05 1.1 1.15

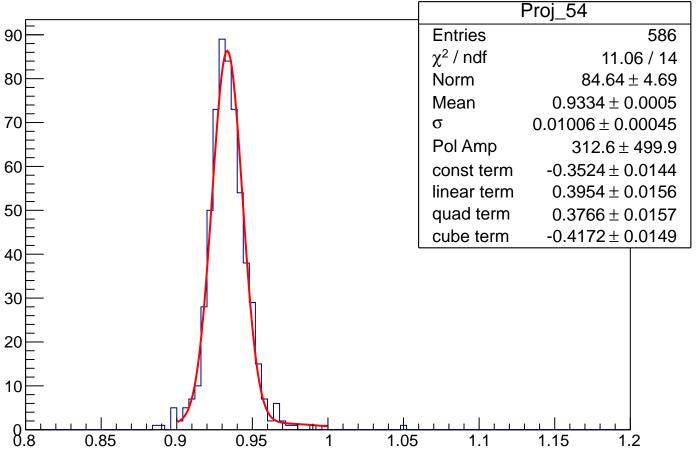
PhiThetaMassPip Proj_50 **Entries** 37 χ^2 / ndf 5.032 / 5 3.774 ± 1.050 Norm Mean 0.9333 ± 0.0054 σ -0.01613 ± 0.00793 Pol Amp 1.141 ± 2.542 const term 2.748 ± 8.951 linear term 0.7023 ± 2.8974 quad term -1.284 ± 3.376 cube term -3.169 ± 9.802

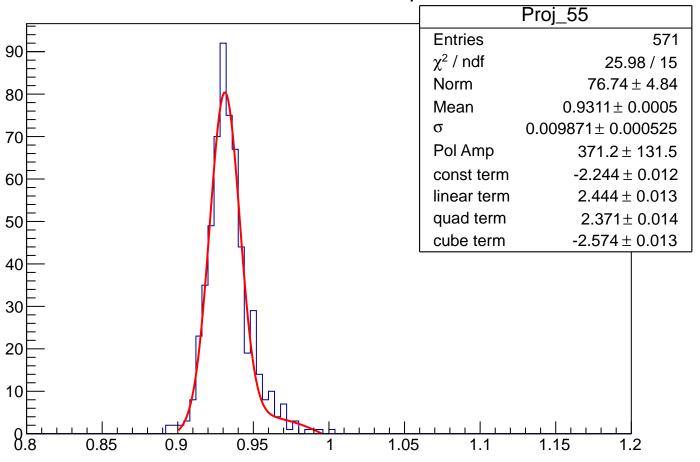




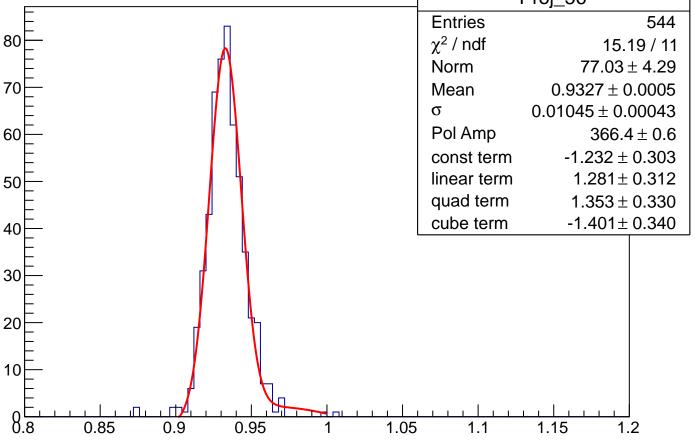


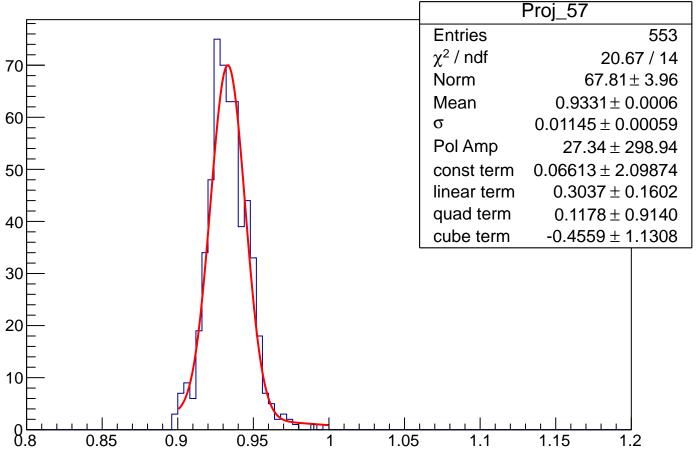


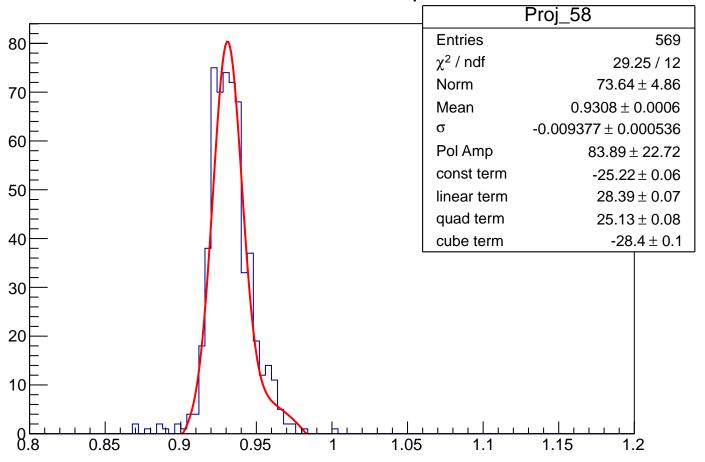


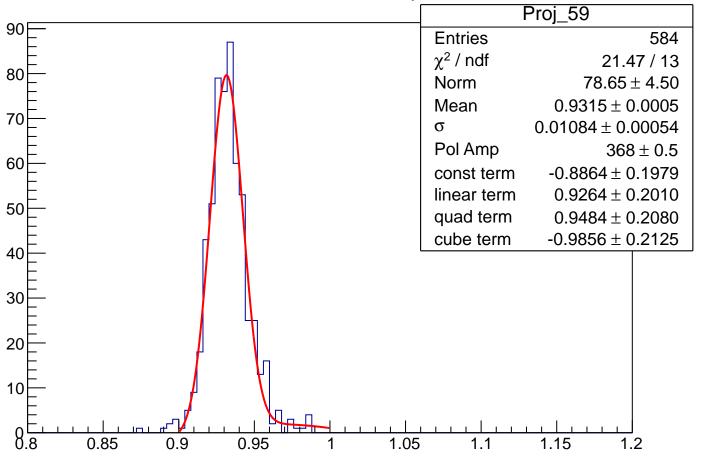


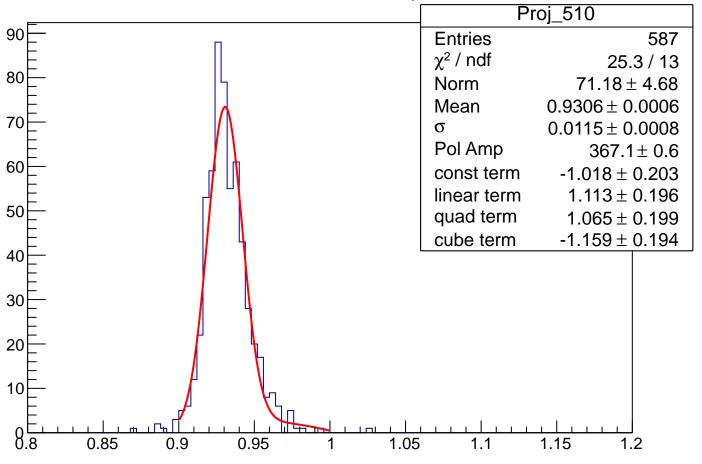
PhiThetaMassPip Proj_56 **Entries** 544 χ^2 / ndf 15.19 / 11 Norm 77.03 ± 4.29 Mean 0.9327 ± 0.0005 σ 0.01045 ± 0.00043 Pol Amp 366.4 ± 0.6 const term -1.232 ± 0.303 linear term 1.281 ± 0.312 quad term 1.353 ± 0.330 cube term -1.401 ± 0.340











PhiThetaMassPip Proj_511 **Entries** 570 χ^2 / ndf 12.05 / 11 80 Norm 76.61 ± 4.65 0.9287 ± 0.0006 Mean 70 σ 0.0102 ± 0.0005 Pol Amp 480.4 ± 158.7 60 const term -1.911 ± 0.013 2.048 ± 0.015 linear term 50 quad term 2.039 ± 0.015 cube term -2.176 ± 0.014 40 30 20 10

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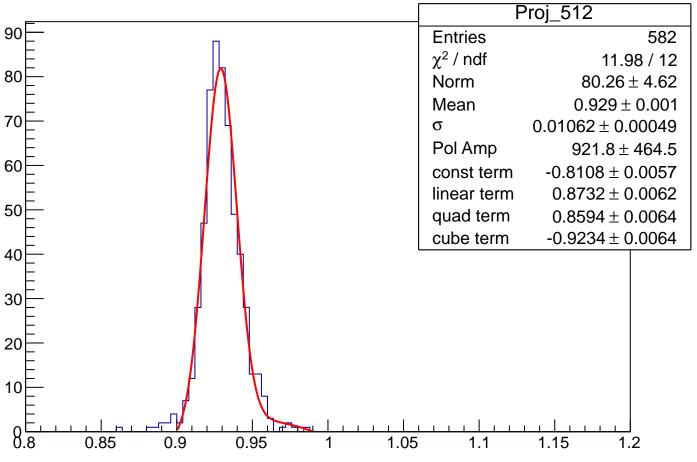
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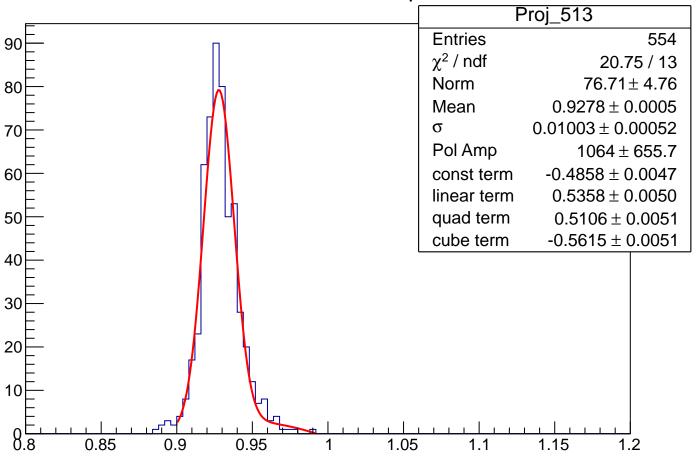
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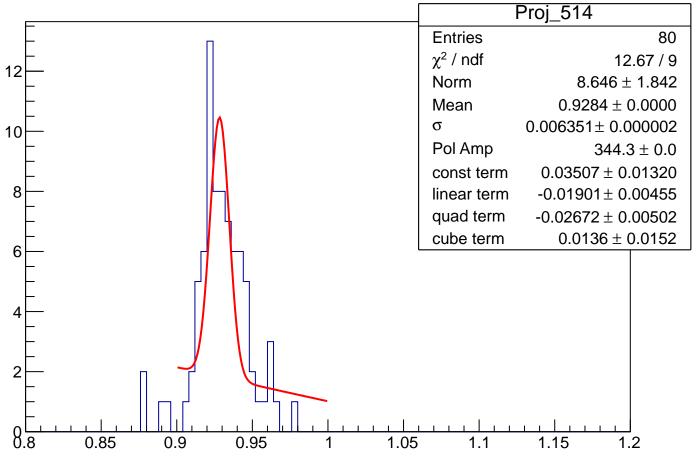
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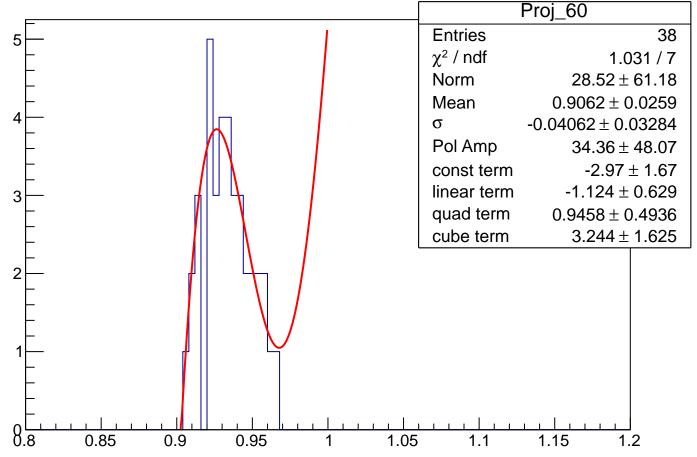
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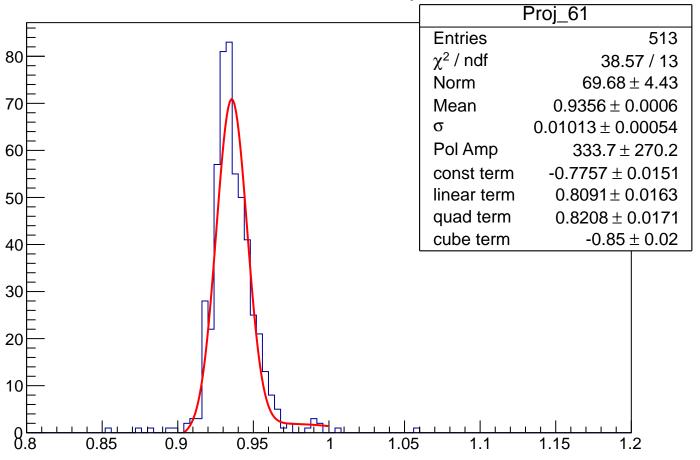
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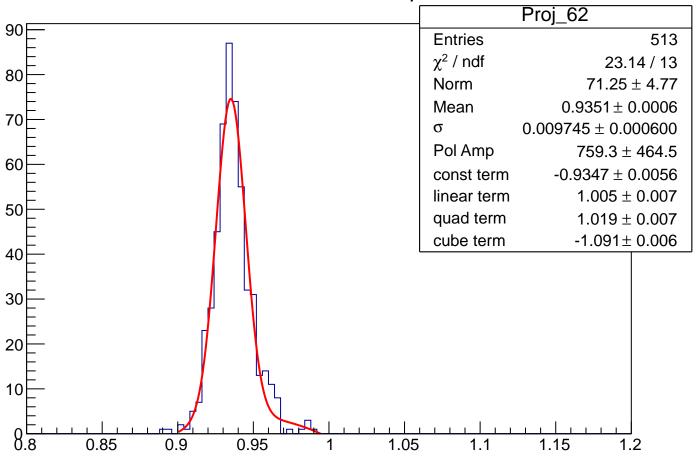


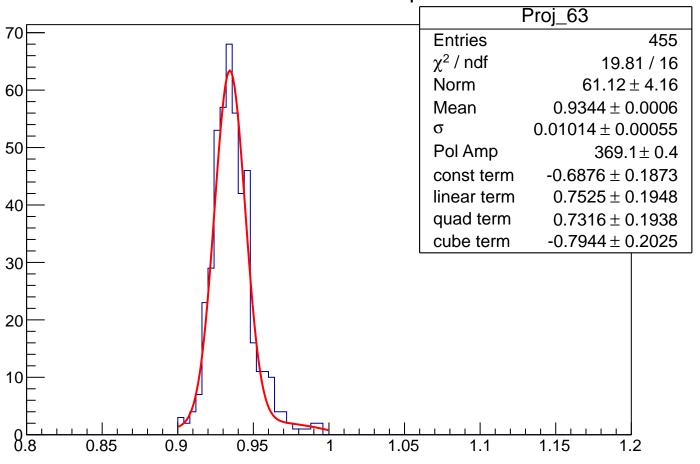


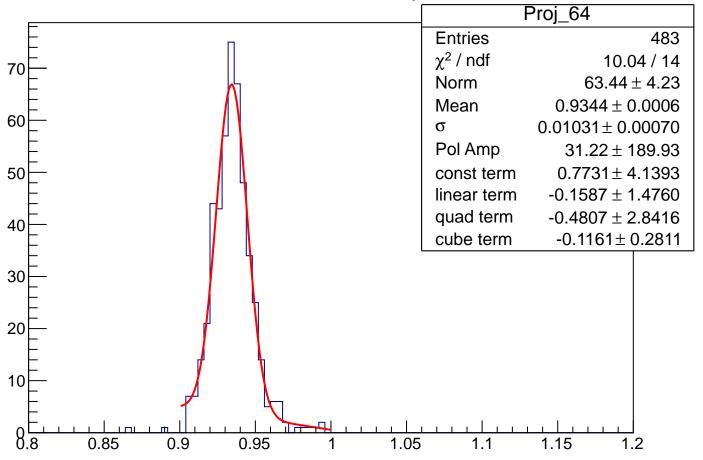


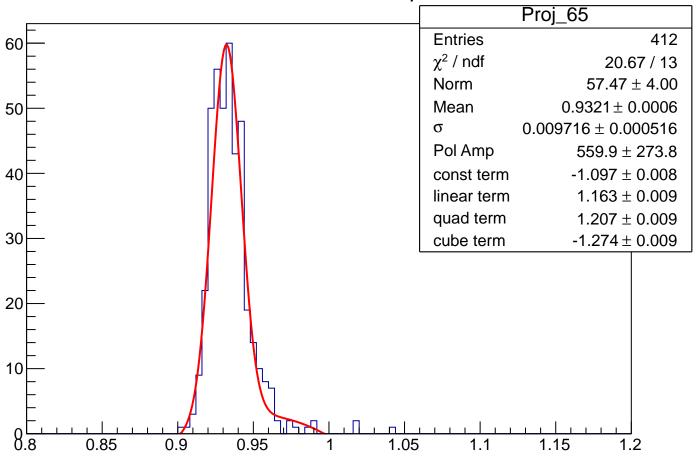


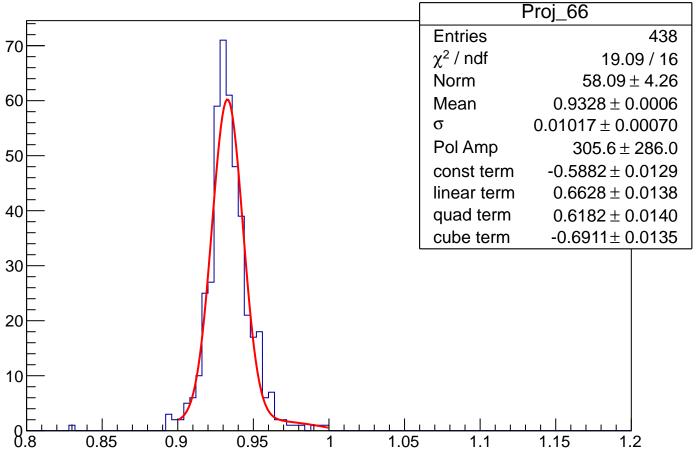


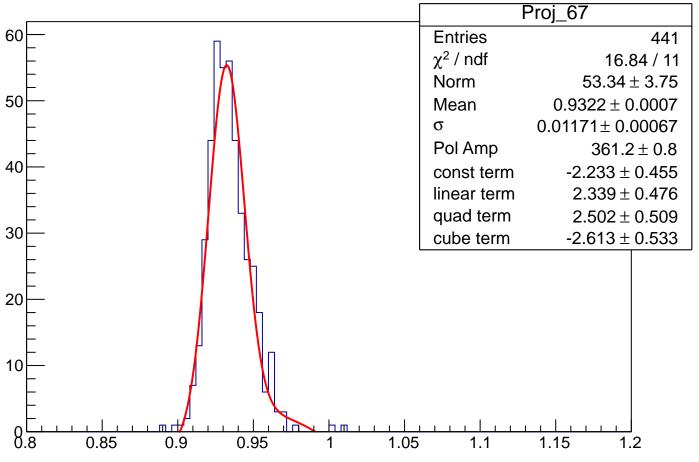


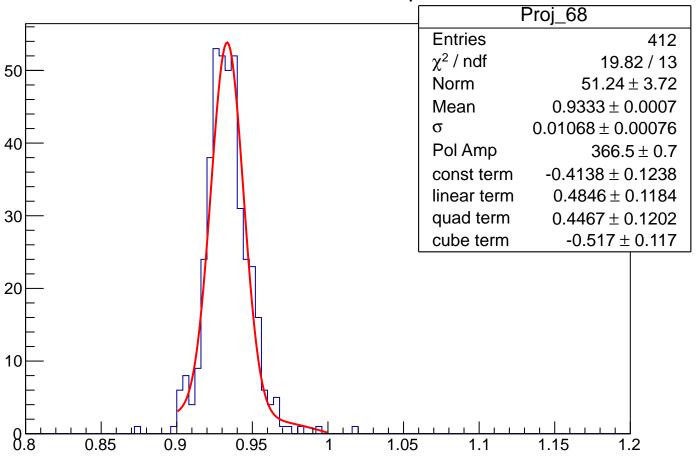


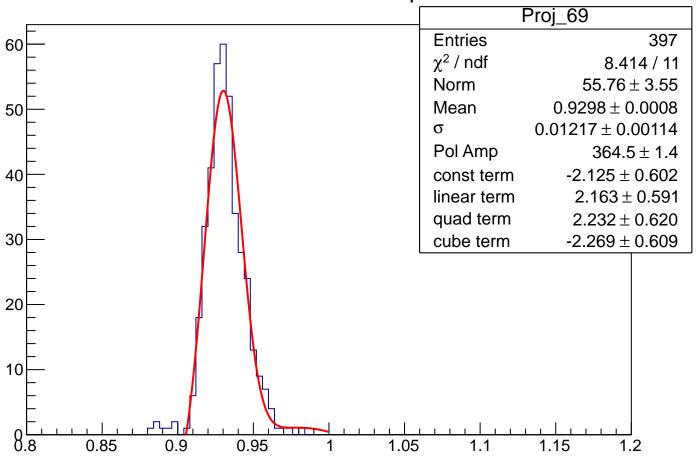












PhiThetaMassPip Proj_610 **Entries** 432 χ^2 / ndf 60 19.67 / 13 Norm 58.24 ± 3.97 0.9308 ± 0.0006 Mean 50 σ 0.0104 ± 0.0006 Pol Amp 367.4 ± 0.7 const term -0.8846 ± 0.2482 40 0.9413 ± 0.2565 linear term quad term 0.9485 ± 0.2617 -1.004 ± 0.272 cube term 30 20 10 $\Gamma_{\rm h}$ Γ

1.05

1.1

1.15

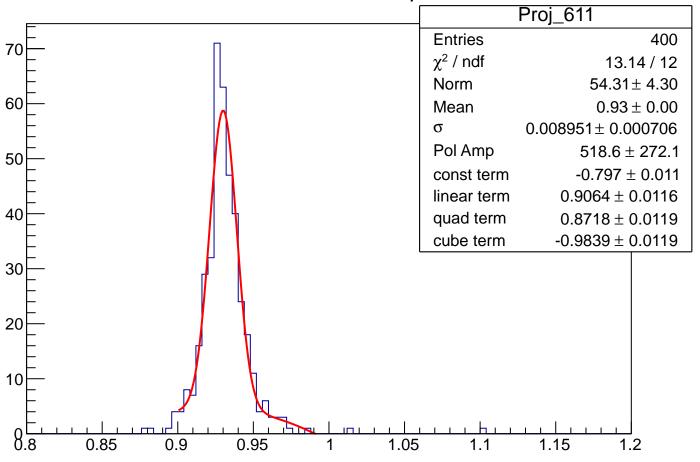
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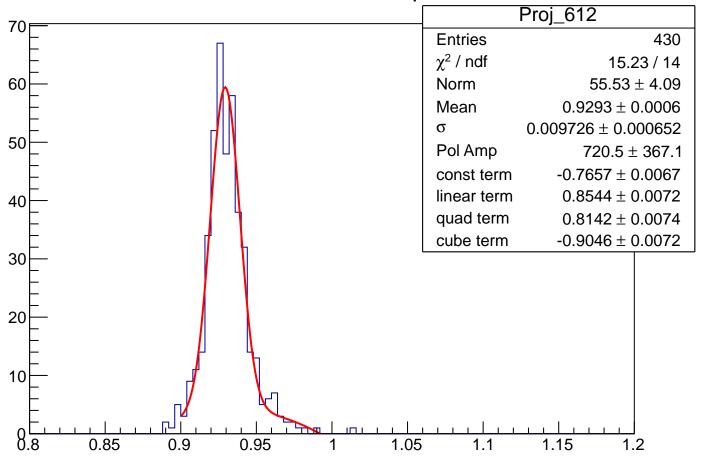
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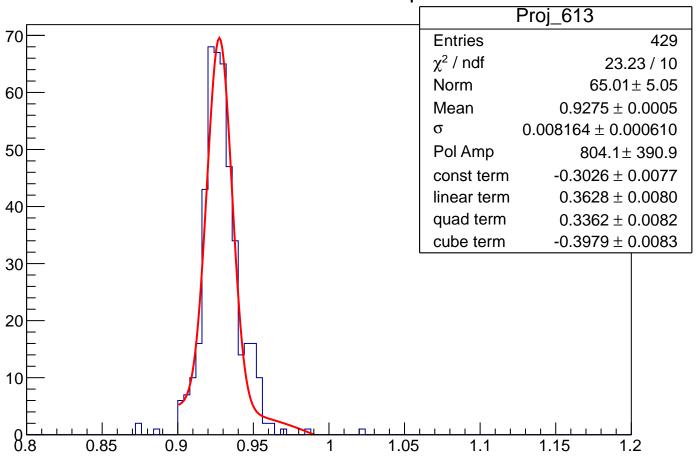
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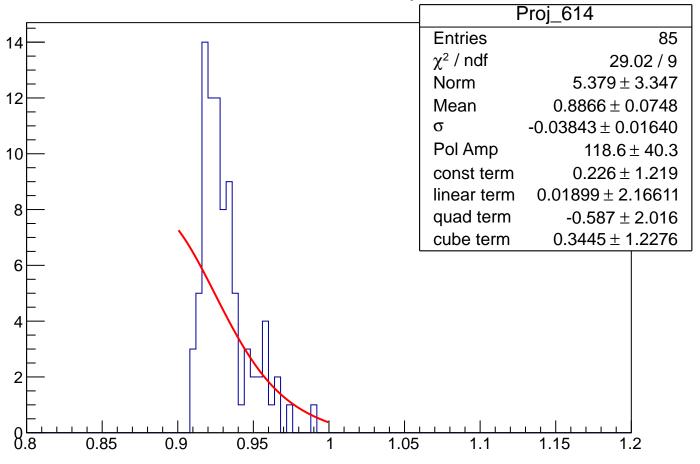
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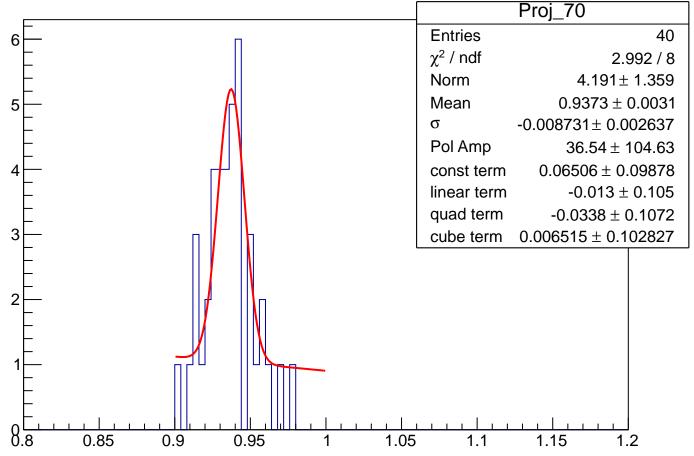
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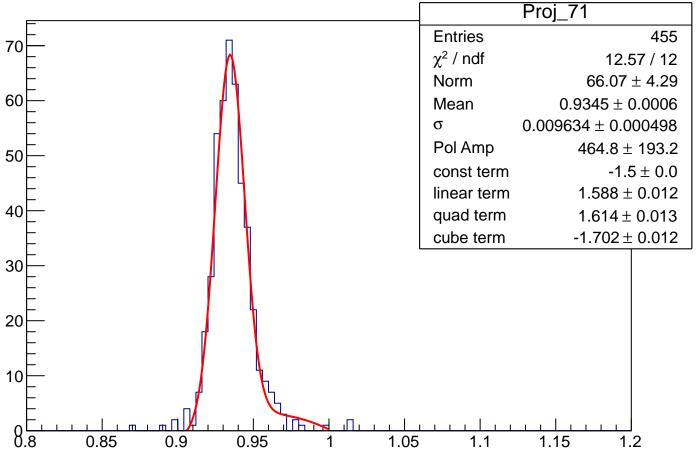


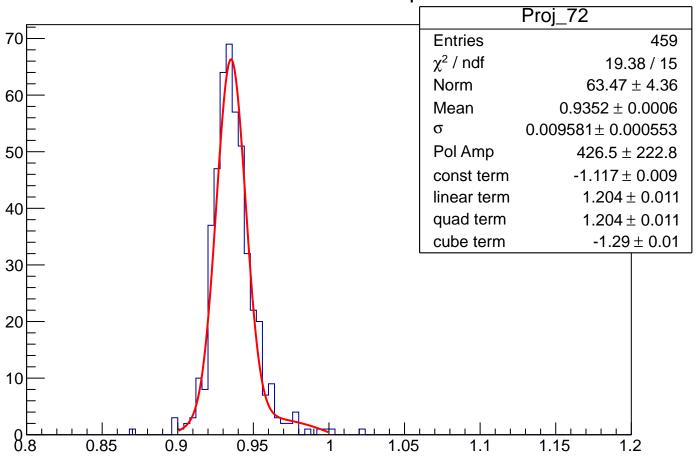




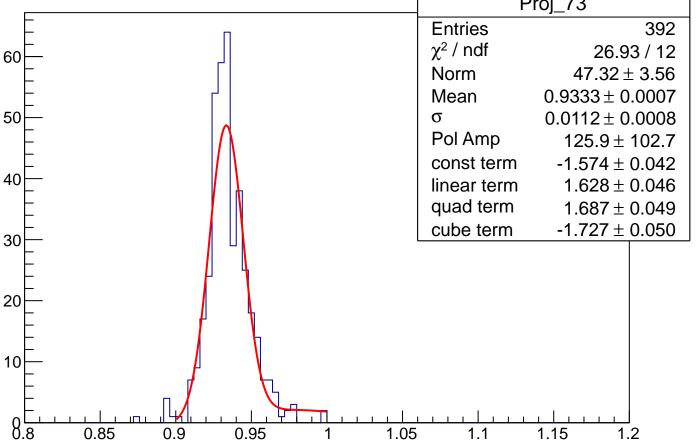


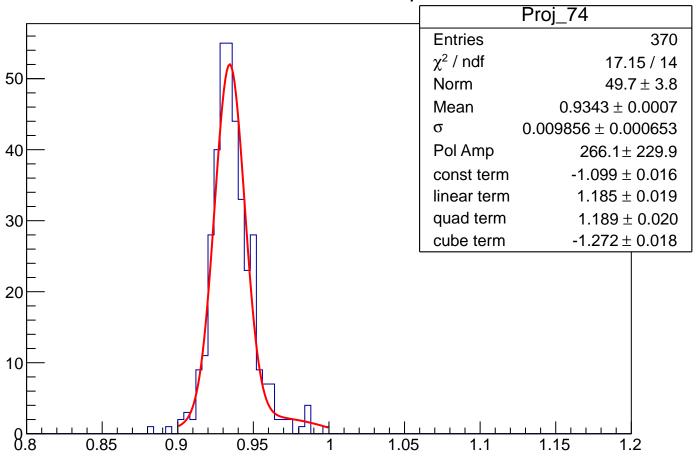




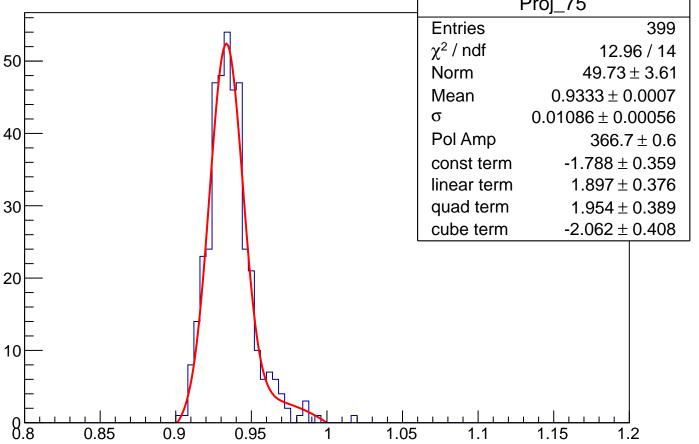


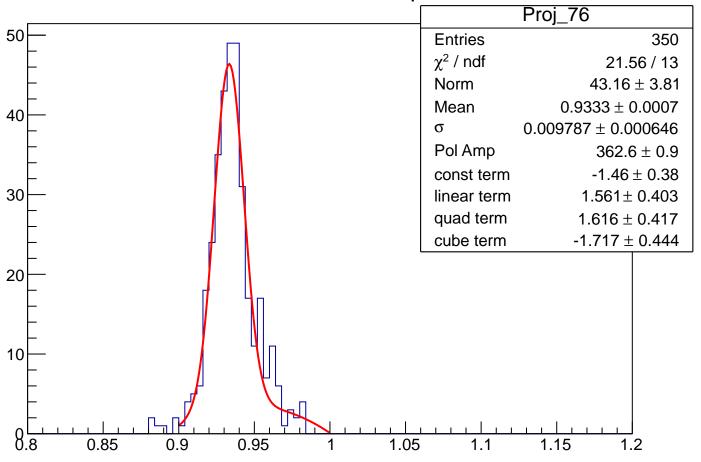
PhiThetaMassPip Proj_73 **Entries** 392 χ^2 / ndf 26.93 / 12 Norm 47.32 ± 3.56 0.9333 ± 0.0007 Mean 0.0112 ± 0.0008 σ Pol Amp 125.9 ± 102.7 const term -1.574 ± 0.042 1.628 ± 0.046 linear term quad term 1.687 ± 0.049 -1.727 ± 0.050 cube term

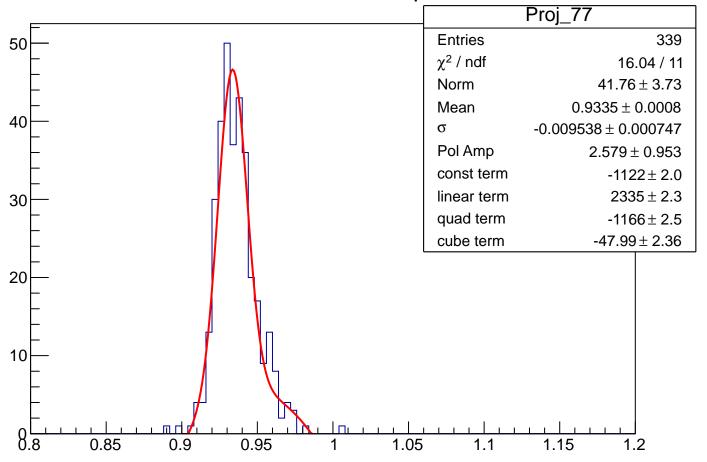


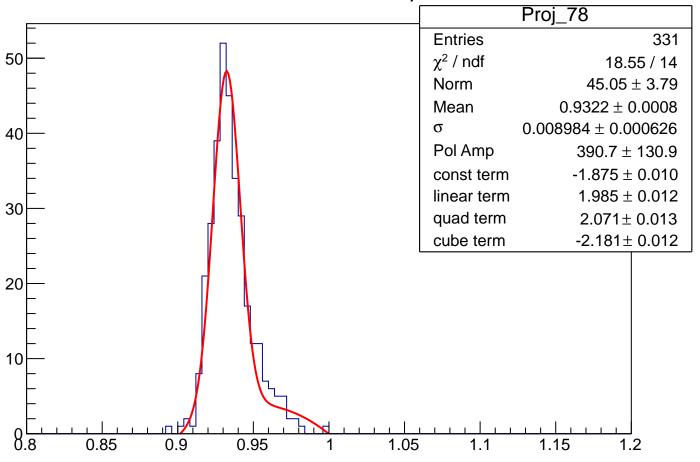


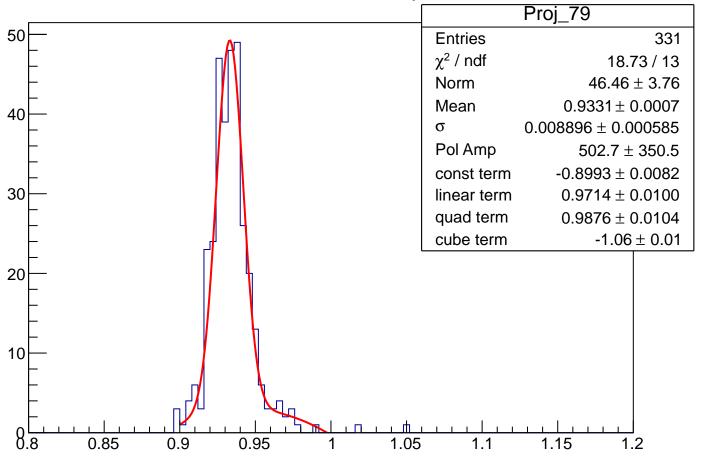
PhiThetaMassPip Proj_75 **Entries** 399 χ^2 / ndf 12.96 / 14 Norm 49.73 ± 3.61 Mean 0.9333 ± 0.0007 σ 0.01086 ± 0.00056 Pol Amp 366.7 ± 0.6 const term -1.788 ± 0.359 linear term 1.897 ± 0.376 quad term 1.954 ± 0.389 cube term -2.062 ± 0.408

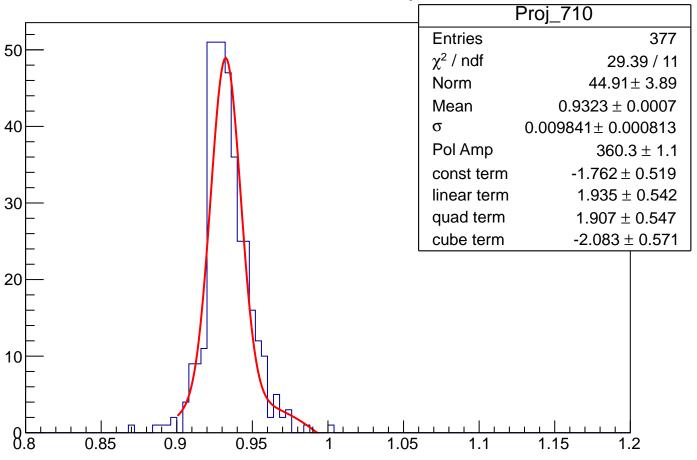


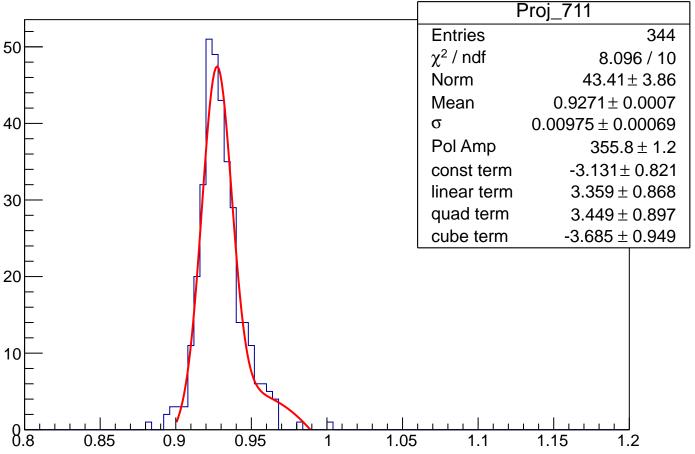


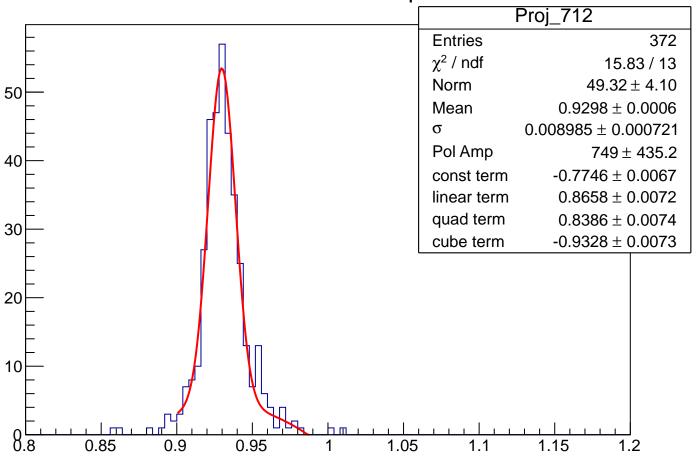


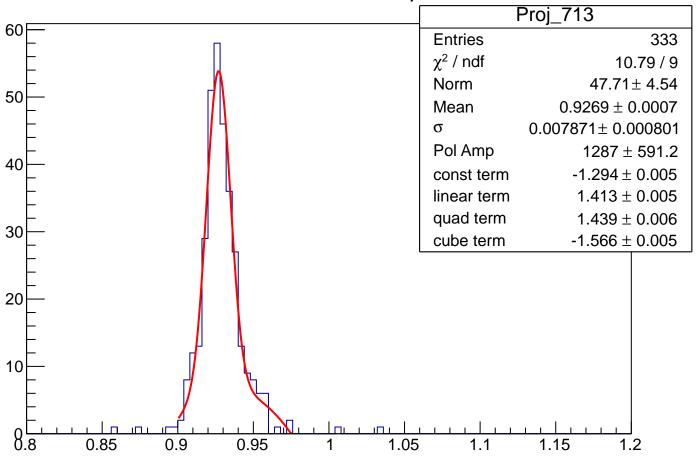




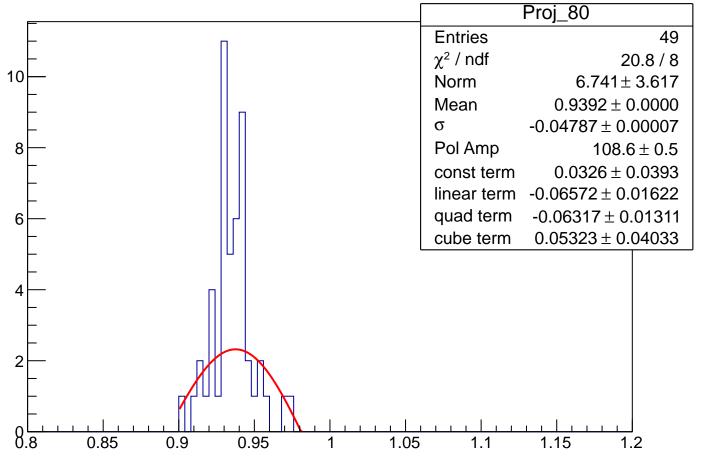


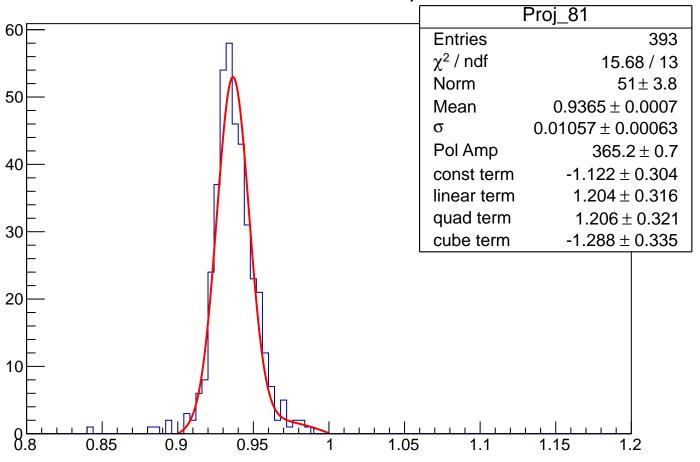


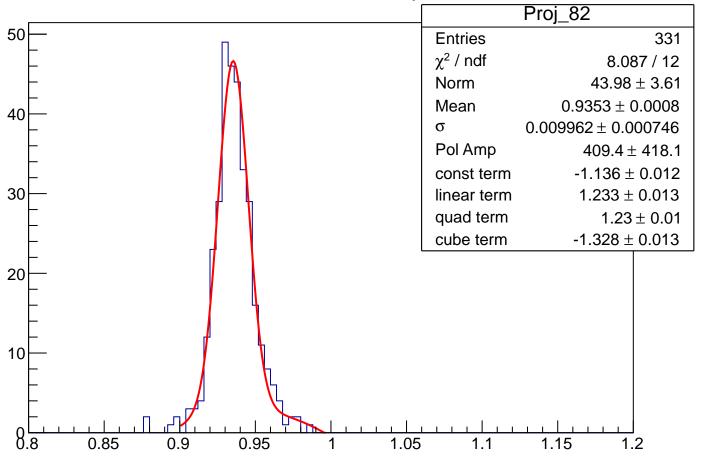


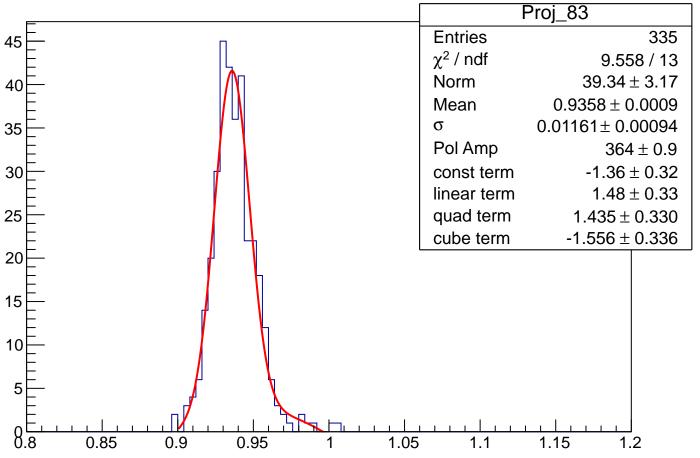


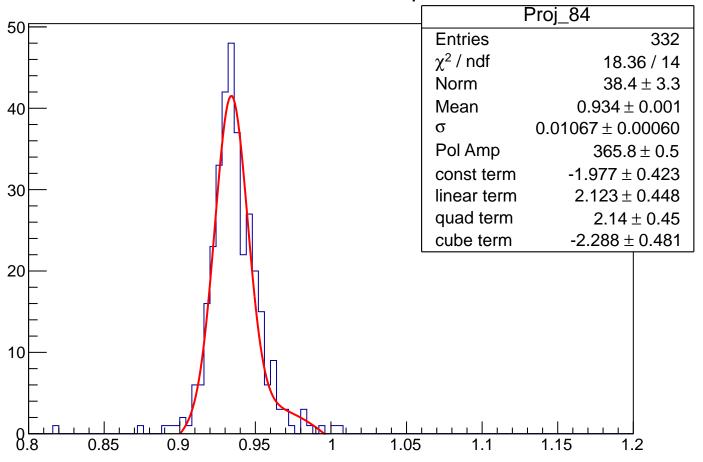
PhiThetaMassPip Proj_714 **Entries** 102 χ^2 / ndf 8.186 / 9 16 Norm 15.67 ± 2.20 0.9266 ± 0.0000 Mean 14 σ 0.006799 ± 0.000002 Pol Amp 352.8 ± 0.0 12 0.02921 ± 0.01276 const term linear term -0.02284 ± 0.00447 10 quad term -0.02577 ± 0.00490 0.02262 ± 0.01504 cube term 8 6 4 2 8.8 0.85 0.9 0.95 1.05 1.1 1.15 1.2

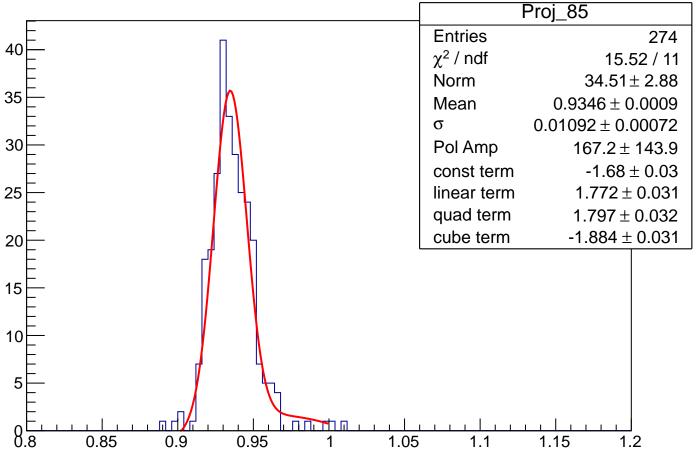


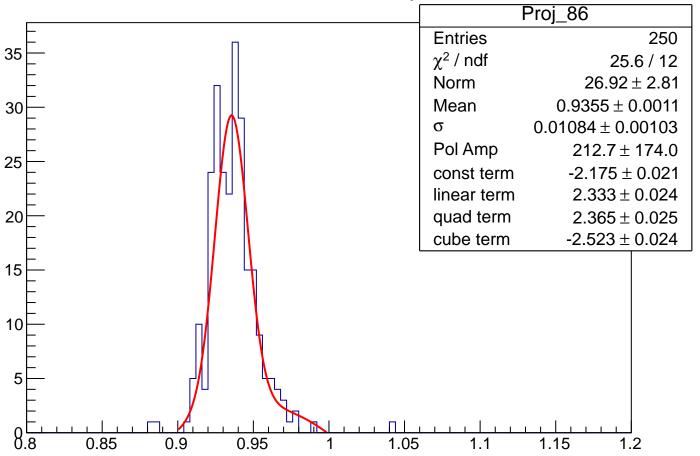


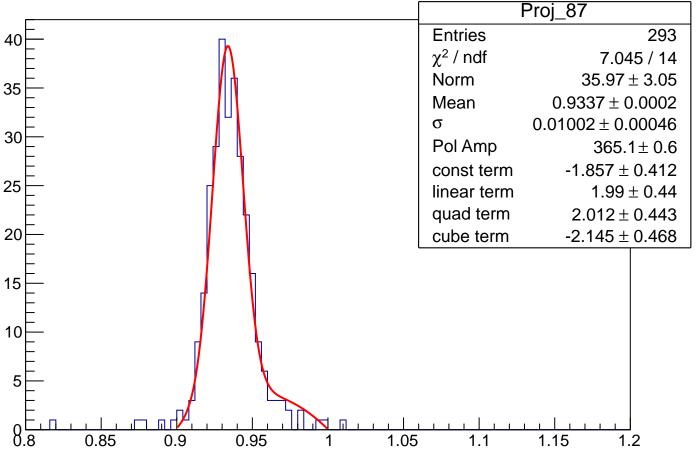












PhiThetaMassPip Proj_88 **Entries** 277 χ^2 / ndf 16.76 / 11 40 Norm 34 ± 3.0 Mean 0.9334 ± 0.0010 35 σ 0.01077 ± 0.00081 Pol Amp 188.6 ± 150.6 30 const term -2.025 ± 0.025 linear term 2.15 ± 0.03 25 quad term 2.179 ± 0.030 cube term -2.301 ± 0.029 20 15 10 5

1.05

1.1

1.15

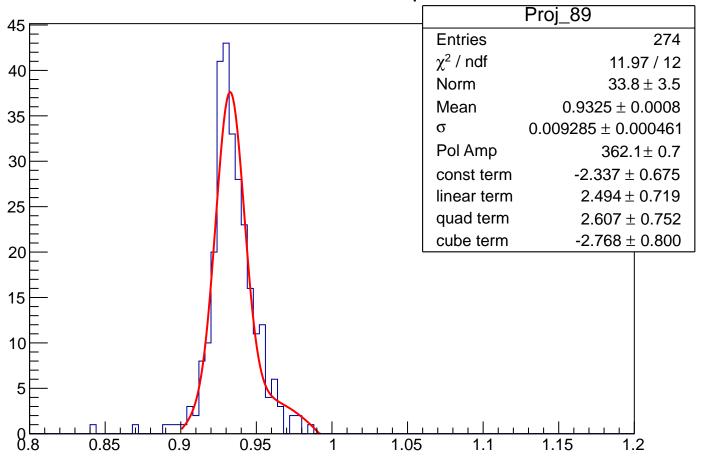
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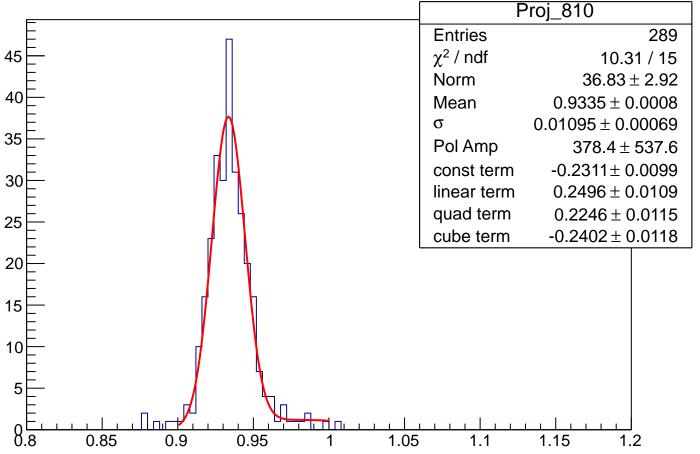
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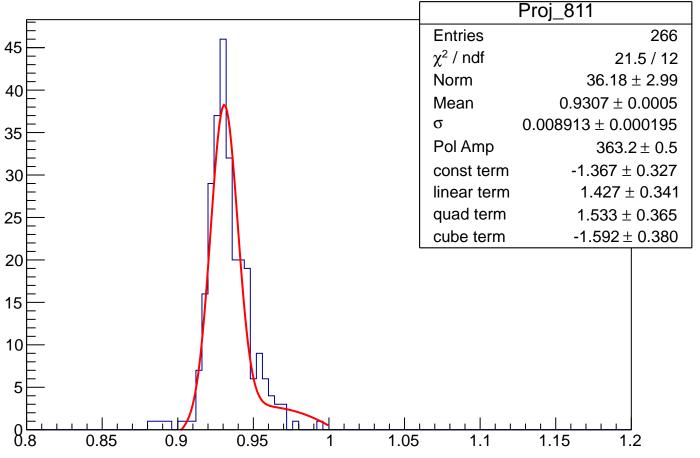
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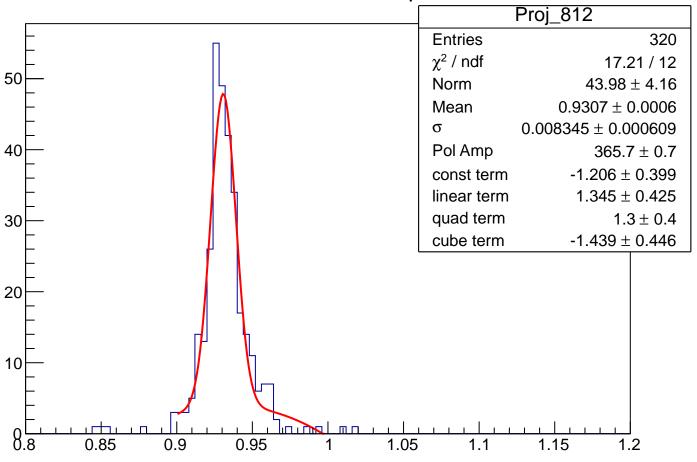
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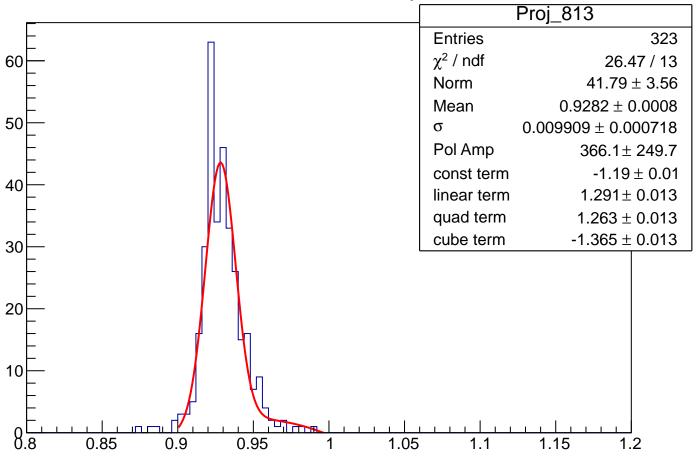
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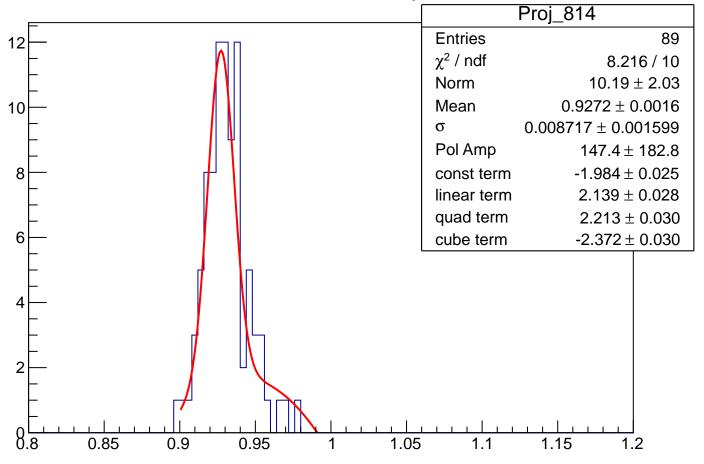


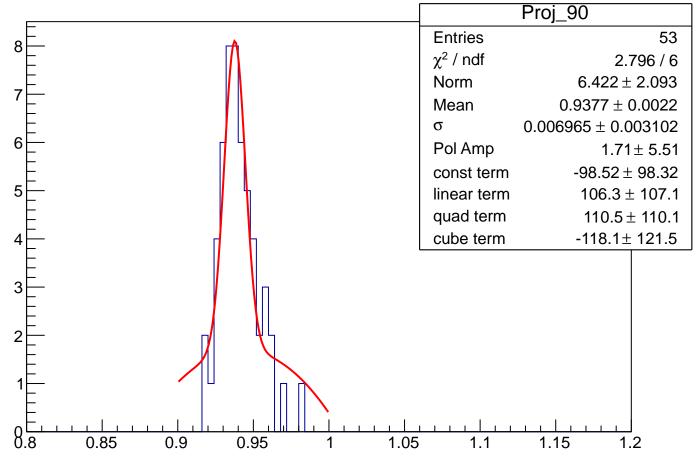


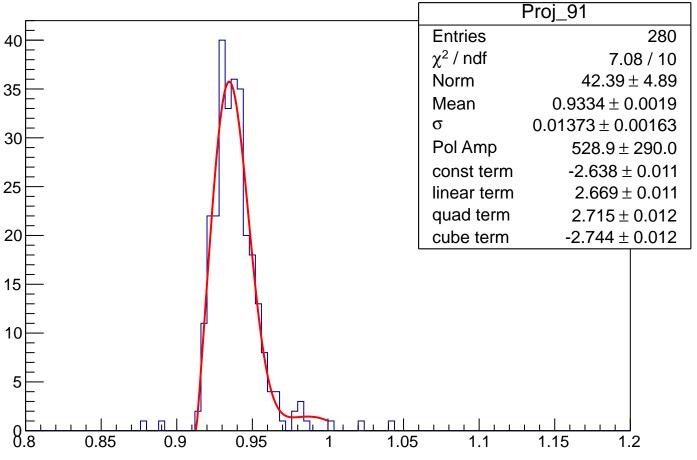


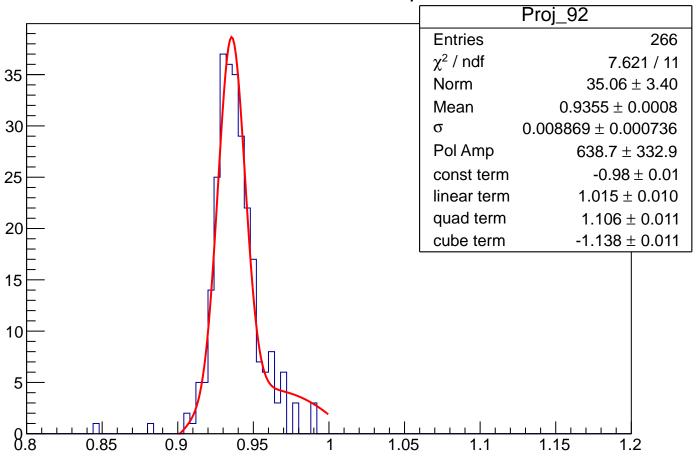


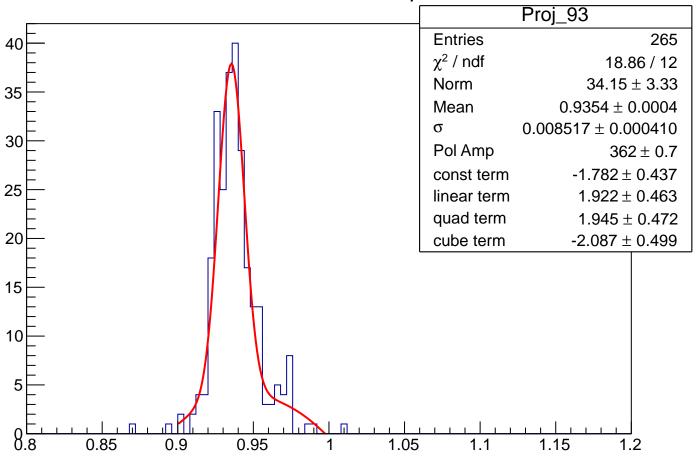


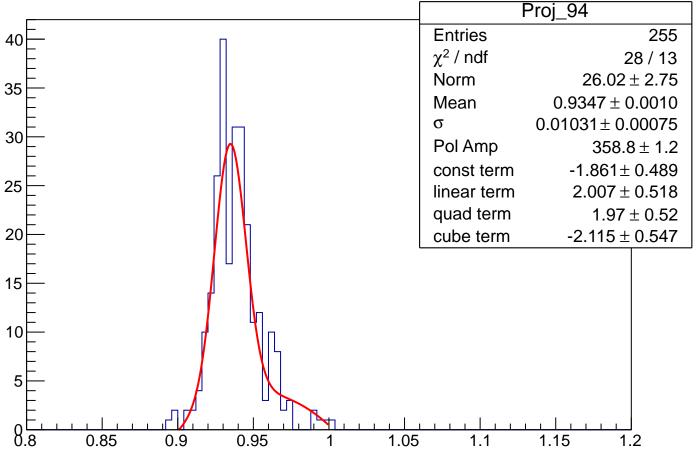


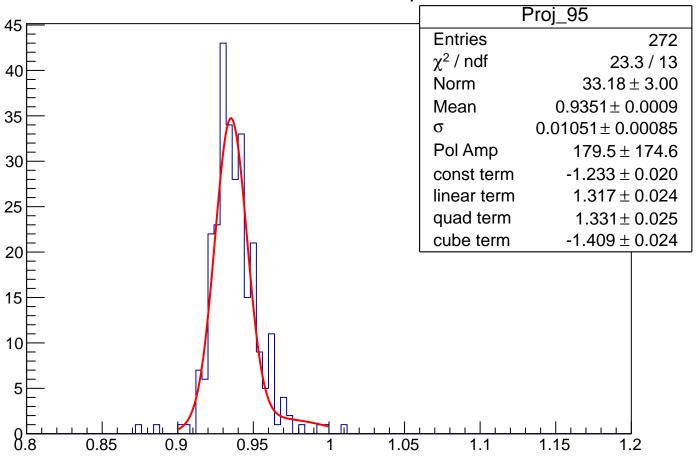


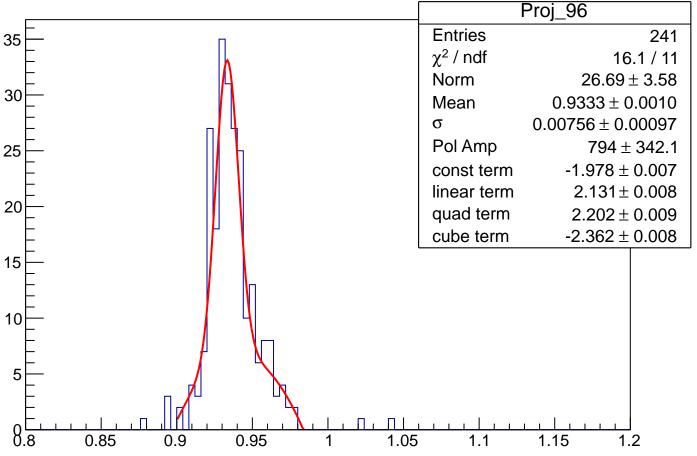


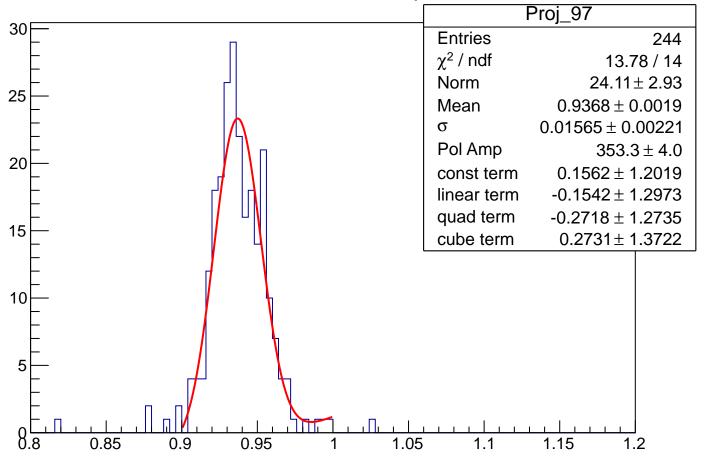


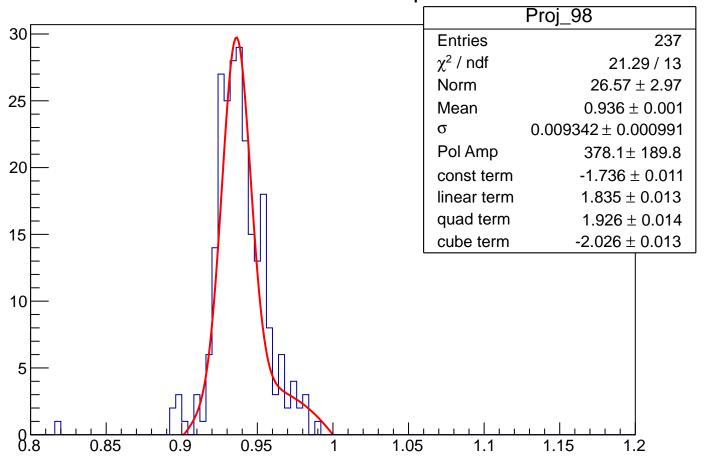


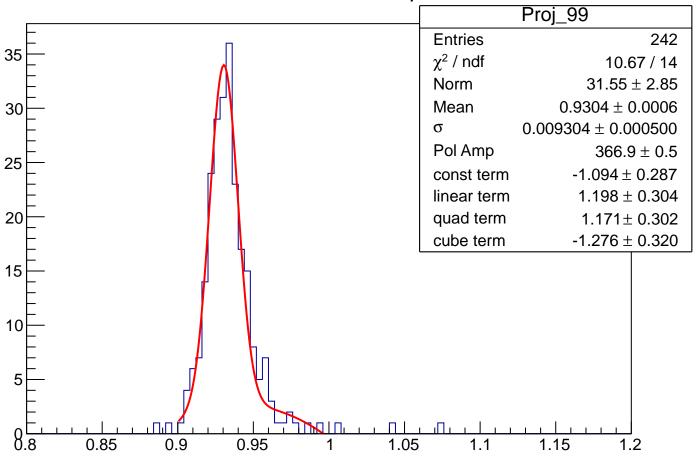


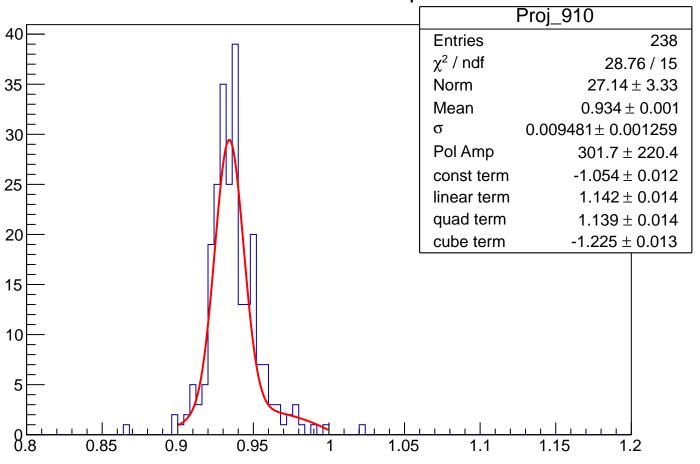


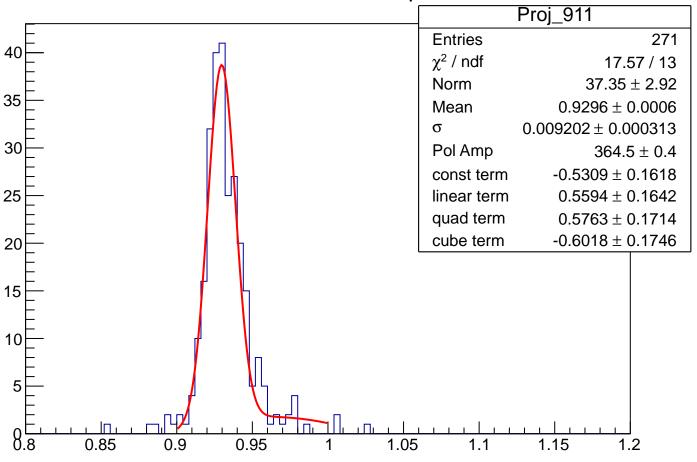


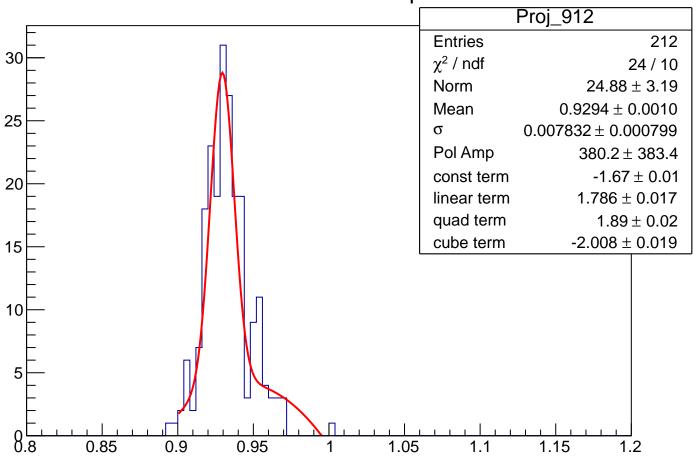












PhiThetaMassPip Proj_913 **Entries** 259 χ^2 / ndf 13.15 / 13 40 Norm 30.91 ± 3.12 Mean 0.9296 ± 0.0009 35 σ 0.01004 ± 0.00095 Pol Amp 252.3 ± 211.4 30 const term -1.36 ± 0.02 linear term 1.491 ± 0.019 25 quad term 1.463 ± 0.020 cube term -1.595 ± 0.019 20 15 10 5 8.8

1.05

1.1

1.15

1.2

0.85

0.9

0.95

PhiThetaMassPip Proj_914 **Entries** 79 χ^2 / ndf 12.8 / 9 12 Norm 10.51 ± 2.65 0.925 ± 0.001 Mean σ 0.004376 ± 0.000856 10 Pol Amp 356 ± 1.5 const term 0.5953 ± 0.1282 8 linear term -0.582 ± 0.138 quad term -0.6469 ± 0.1467 cube term 0.6369 ± 0.1581 6 4 2

1.05

1.1

1.15

1.2

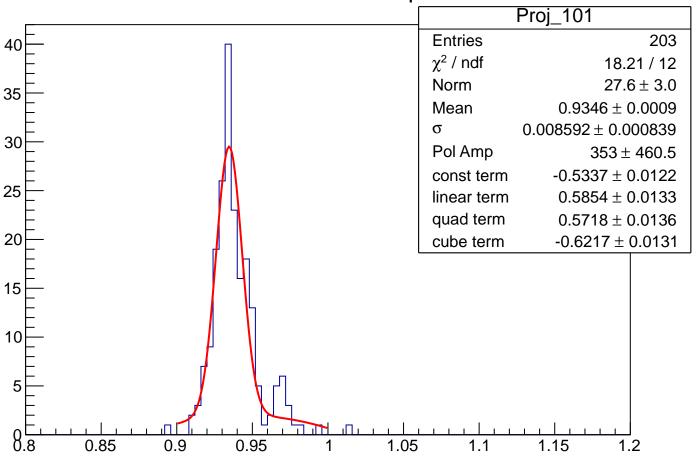
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0.85

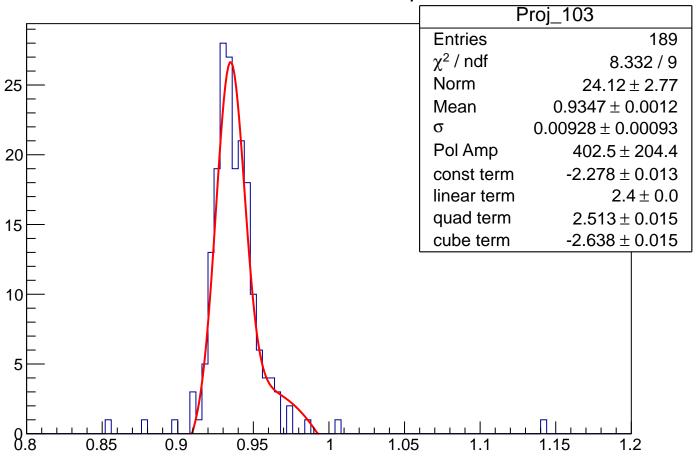
0.9

0.95

PhiThetaMassPip Proj_100 **Entries** 31 χ^2 / ndf 5.078 / 6 Norm 2.034 ± 1.128 3.5 Mean 0.9457 ± 0.0000 σ -0.01944 ± 0.00002 3 Pol Amp 13 ± 0.1 const term 0.02417 ± 0.01210 2.5 -0.01828 ± 0.01375 linear term quad term -0.01057 ± 0.01555 2 0.05008 ± 0.01749 cube term 1.5 0.5 8.8 0.85 0.9 0.95 1.05 1.1 1.15 1.2



PhiThetaMassPip Proj_102 **Entries** 209 χ^2 / ndf 9.23 / 10 25 Norm 21.43 ± 4.14 Mean 0.9336 ± 0.0019 σ 0.01227 ± 0.00241 20 Pol Amp 49.67 ± 86.35 const term 3.374 ± 0.102 linear term -3.189 ± 0.104 15 quad term -3.338 ± 0.105 cube term 3.169 ± 0.106 10 5 8.8 0.85 0.9 0.95 1.05 1.1 1.15 1.2



PhiThetaMassPip Proj_104 **Entries** 187 22 χ^2 / ndf 5.184 / 11 20 Norm 21.01 ± 2.30 0.9363 ± 0.0012 Mean 18 σ 0.01223 ± 0.00129 16 Pol Amp 11.23 ± 64.78 const term -1.396 ± 0.398 14 linear term 1.676 ± 0.411 quad term 1.557 ± 0.418 12 cube term -1.753 ± 0.419 10 8 6 4 2

1.05

1.1

1.15

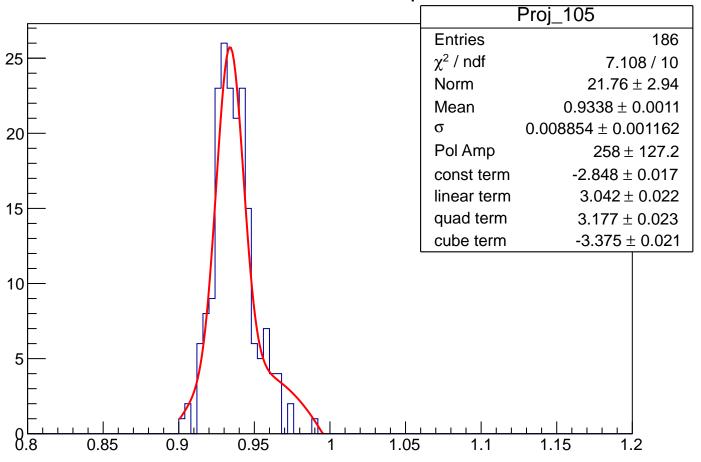
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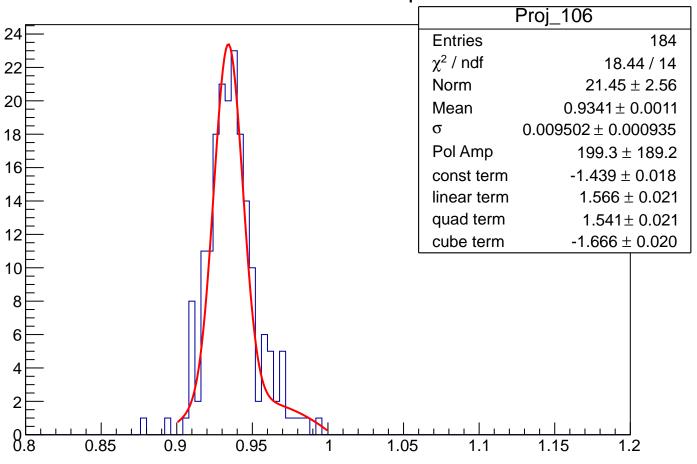
0.8 8.8

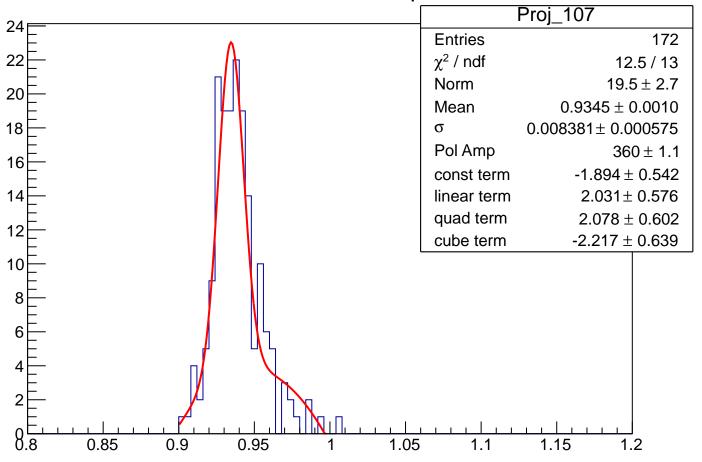
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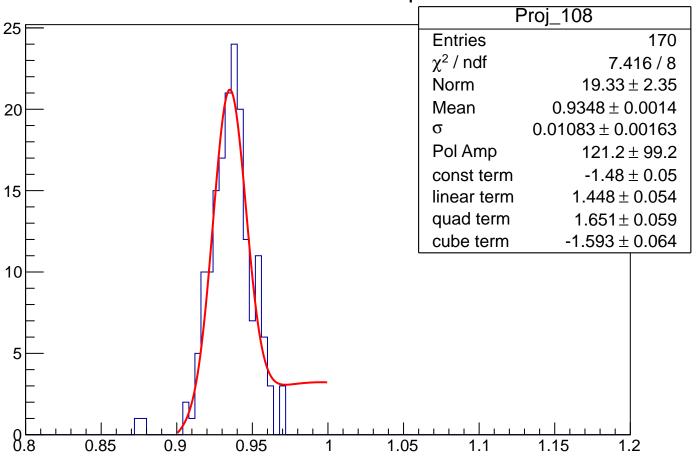
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0.95









PhiThetaMassPip Proj_109 **Entries** 192 χ^2 / ndf 15.42 / 12 Norm 20.29 ± 2.71 Mean 0.9349 ± 0.0015 σ 0.01003 ± 0.00156 Pol Amp 299.4 ± 169.5 const term -2.103 ± 0.013 linear term 2.212 ± 0.015 quad term 2.379 ± 0.017 cube term -2.49 ± 0.02

1.05

1.15

1.2

25

20

15

10

5

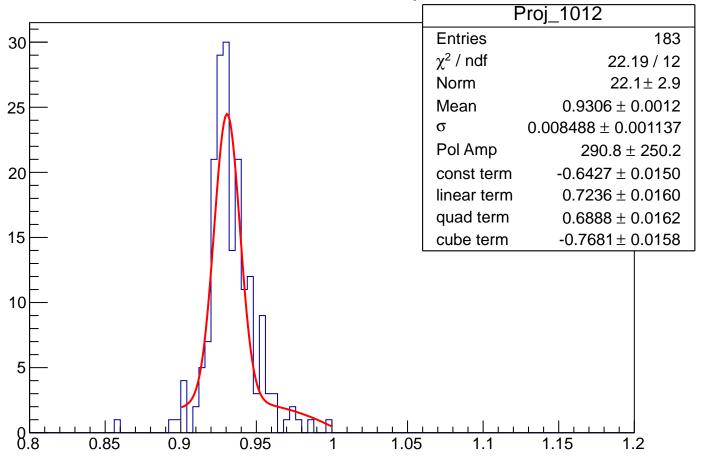
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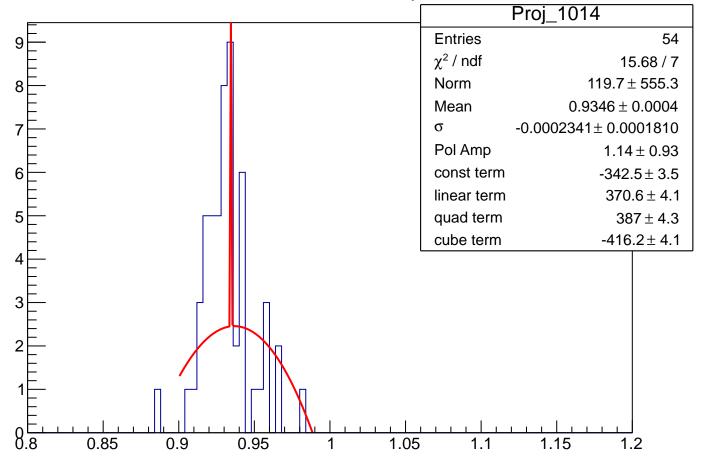
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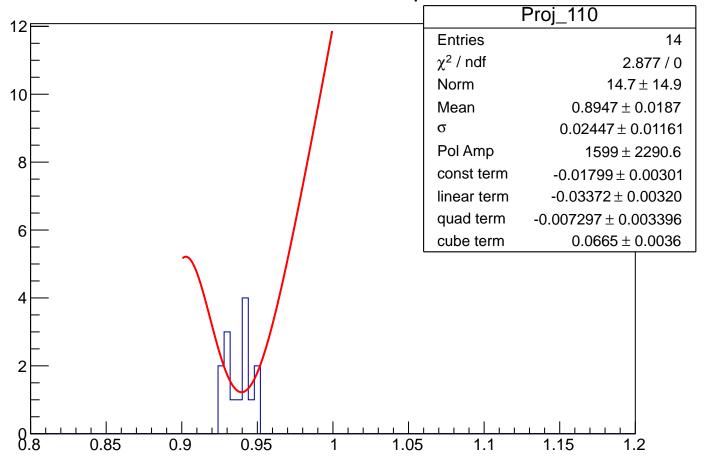
PhiThetaMassPip Proj_1010 **Entries** 158 25 χ^2 / ndf 14.52 / 11 Norm 16.72 ± 2.29 0.9337 ± 0.0003 Mean σ 0.01073 ± 0.00156 20 Pol Amp 352.4 ± 3.1 const term 0.2719 ± 0.7085 linear term -0.2217 ± 0.7594 15 quad term -0.3725 ± 0.7841 0.3251 ± 0.8383 cube term 10 5 8.8 0.85 0.9 0.95 1.05 1.1 1.15 1.2

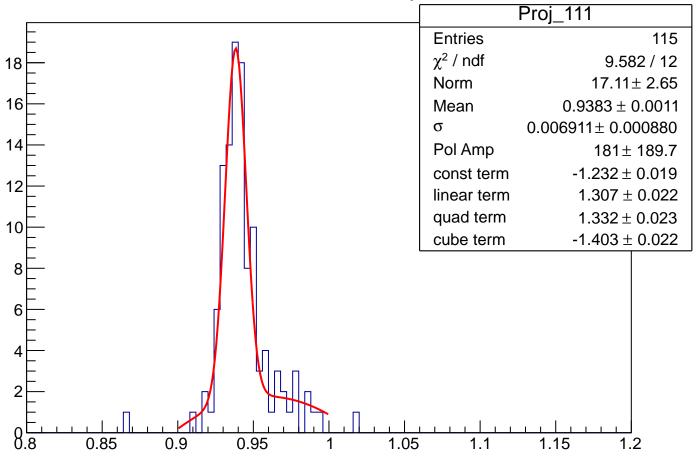
PhiThetaMassPip Proj_1011 **Entries** 163 25 χ^2 / ndf 11.73 / 10 Norm 20.14 ± 2.59 0.9314 ± 0.0011 Mean 20 σ 0.009337 ± 0.001115 Pol Amp 116.1± 178.2 const term -1.446 ± 0.041 1.525 ± 0.046 linear term 15 quad term 1.622 ± 0.051 cube term -1.689 ± 0.054 10 5 8.8 0.85 0.9 0.95 1.05 1.15 1.2

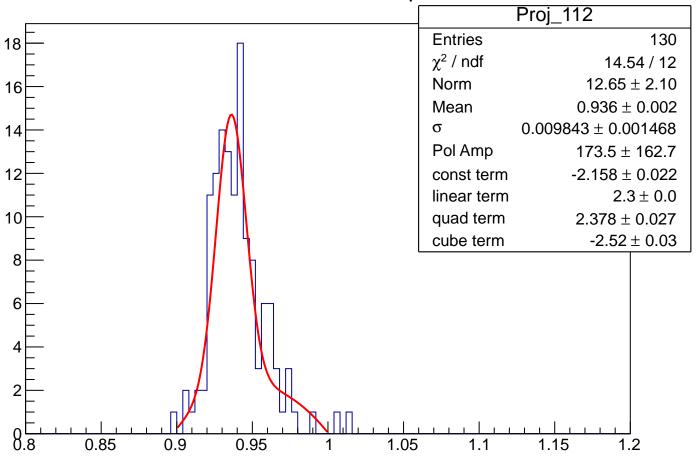


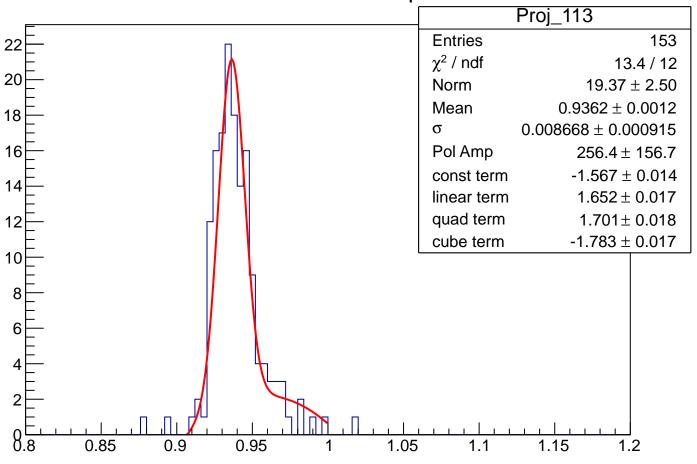
PhiThetaMassPip Proj_1013 30 **Entries** 171 χ^2 / ndf 11.79 / 9 Norm 20.97 ± 2.45 25 0.9303 ± 0.0013 Mean σ 0.0108 ± 0.0015 Pol Amp 155.6 ± 166.5 20 const term -1.818 ± 0.031 1.91 ± 0.03 linear term quad term 1.973 ± 0.036 15 -2.063 ± 0.036 cube term 10 5 8.8 0.85 0.9 0.95 1.05 1.15 1.2



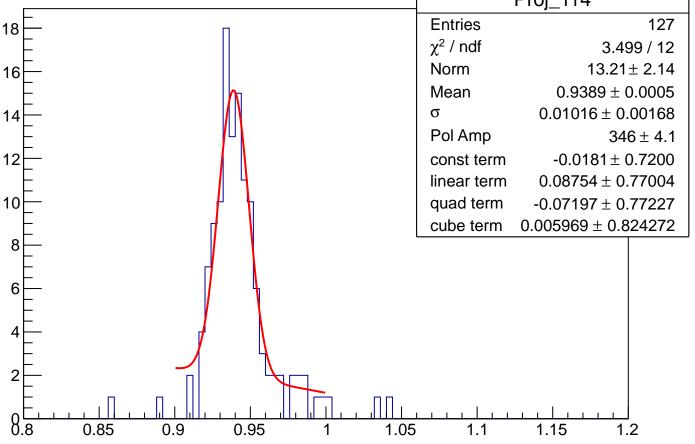




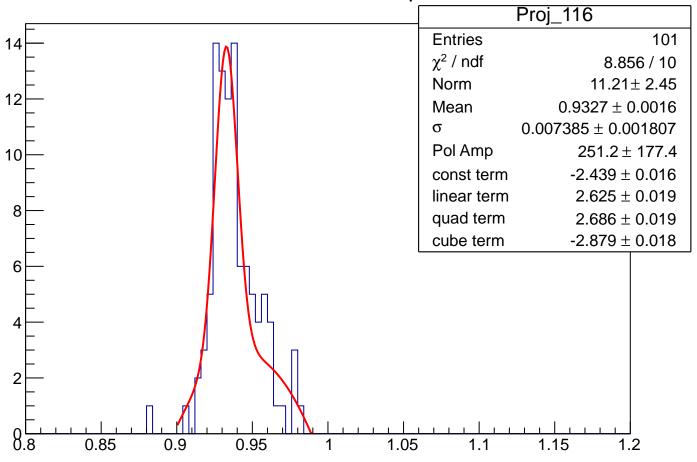




PhiThetaMassPip Proj_114 **Entries** 127 χ^2 / ndf 3.499 / 12Norm 13.21 ± 2.14 0.9389 ± 0.0005 Mean σ 0.01016 ± 0.00168 Pol Amp 346 ± 4.1 const term -0.0181 ± 0.7200 linear term 0.08754 ± 0.77004 quad term -0.07197 ± 0.77227 0.005969 ± 0.824272 cube term



PhiThetaMassPip Proj_115 **Entries** 106 χ^2 / ndf 2.546 / 8 12 Norm 9.014 ± 1.935 Mean 0.9352 ± 0.0030 σ -0.01098 ± 0.00250 10 Pol Amp 11.1± 11.7 const term -51.94 ± 0.55 8 linear term 57.32 ± 0.57 quad term 50.52 ± 0.59 cube term -55.79 ± 0.59 6 4 2 8.8 0.85 0.9 0.95 1.05 1.1 1.15 1.2



PhiThetaMassPip Proj_117 **Entries** 91 14 χ^2 / ndf 18.12 / 12 Norm 8.088 ± 1.545 12 Mean 0.9408 ± 0.0018 σ 0.01016 ± 0.00162 Pol Amp 4.794 ± 50.932 10 const term -1.182 ± 1.068 linear term 1.513 ± 0.297 8 quad term 1.526 ± 0.117 cube term -1.655 ± 0.091 6 4 2 8.8 0.85 0.9 0.95 1.05 1.1 1.15 1.2

PhiThetaMassPip Proj_118 **Entries** 105 χ^2 / ndf 16.1/9 14 Norm 12.62 ± 2.32 Mean 0.9356 ± 0.0000 12 σ 0.005824 ± 0.000004 Pol Amp 352.1 ± 0.0 10 const term 0.05129 ± 0.01250 linear term -0.008648 ± 0.004298 quad term -0.0295 ± 0.0046 8 -0.01145 ± 0.01381 cube term 6 4 2 8.8

1.05

1.1

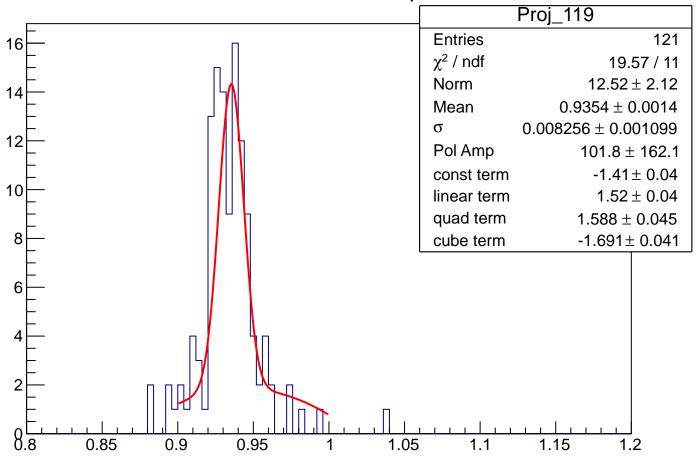
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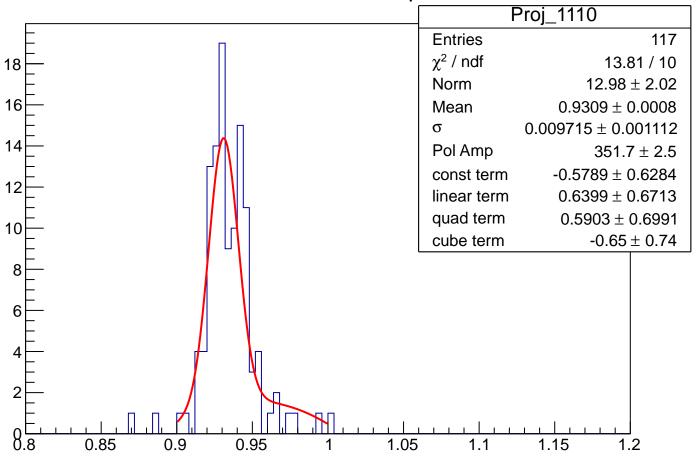
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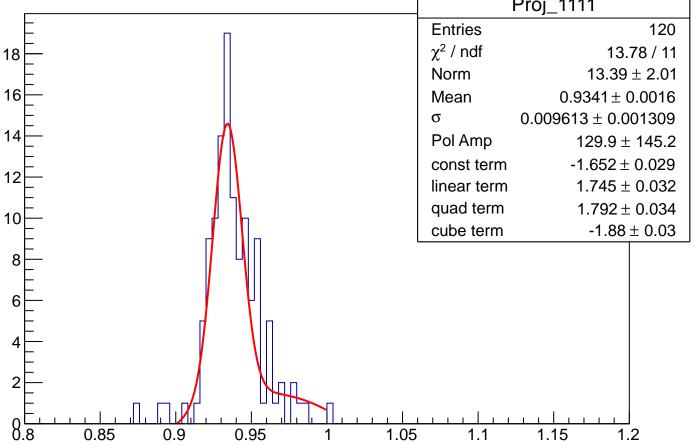
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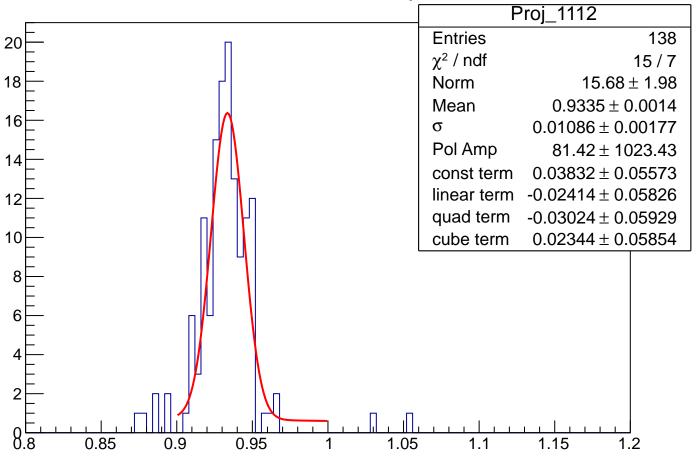
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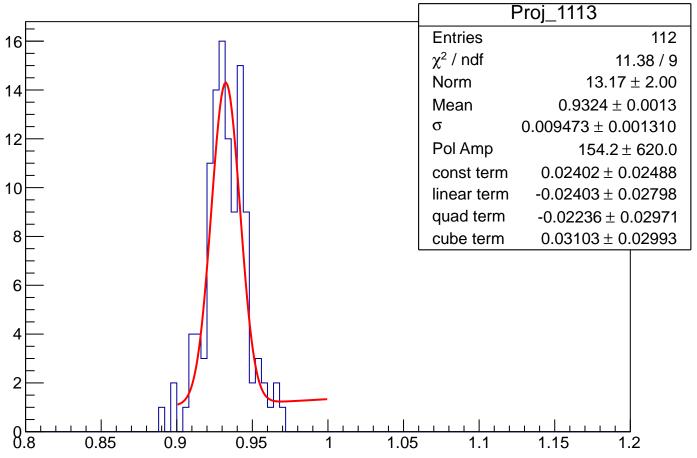




PhiThetaMassPip Proj_1111 **Entries** 120 χ^2 / ndf 13.78 / 11 Norm 13.39 ± 2.01 0.9341 ± 0.0016 Mean σ 0.009613 ± 0.001309 Pol Amp 129.9 ± 145.2 const term -1.652 ± 0.029 linear term 1.745 ± 0.032 quad term 1.792 ± 0.034 cube term -1.88 ± 0.03







PhiThetaMassPip Proj_1114 **Entries** 34 6 χ^2 / ndf 2.078 / 4 Norm 4.861 ± 1.944 Mean 0.9275 ± 0.0056 5 σ -0.01103 ± 0.00623 Pol Amp 29.54 ± 105.12 const term -0.08792 ± 0.14300 4 -0.04605 ± 0.15340 linear term quad term 0.03366 ± 0.16349 3 0.1513 ± 0.1733 cube term 2 0.8 8.0 0.85 0.9 0.95 1.05 1.15