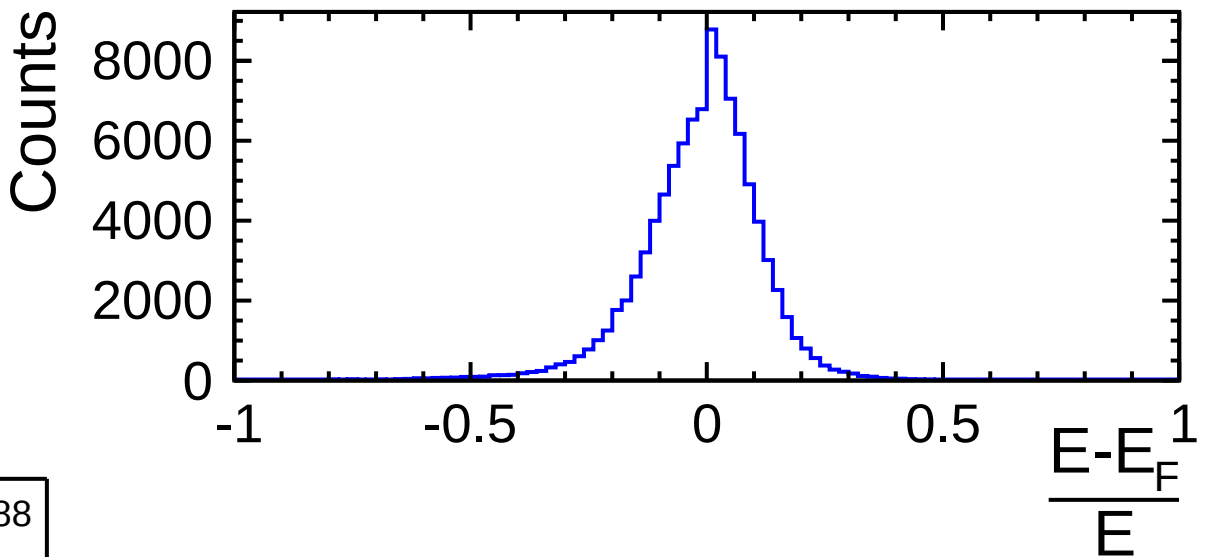
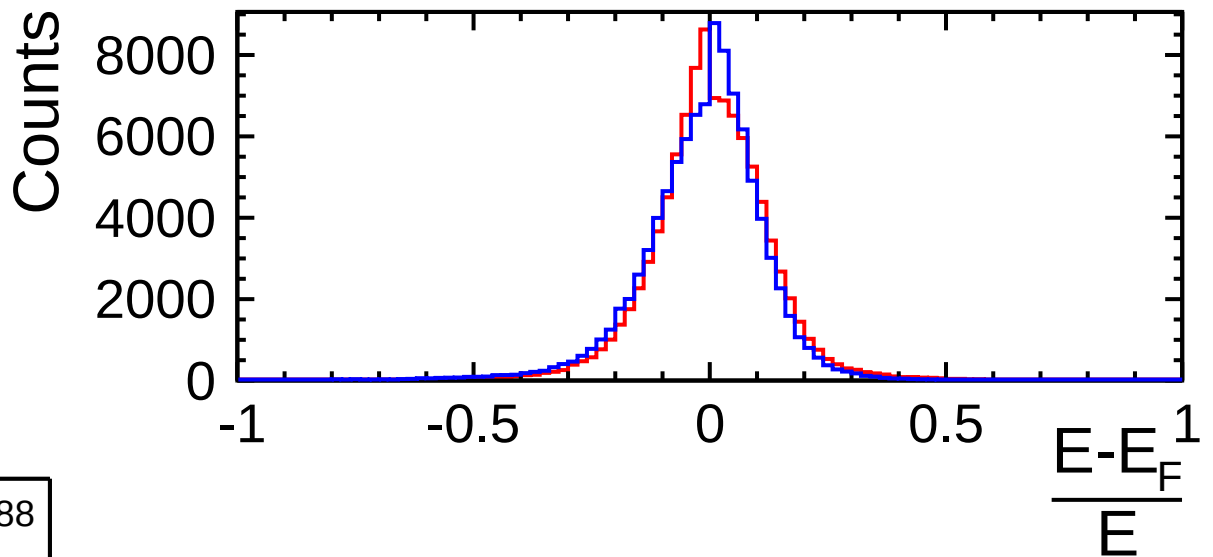
Energyresulution from Tau 1 (kinematic Fit)



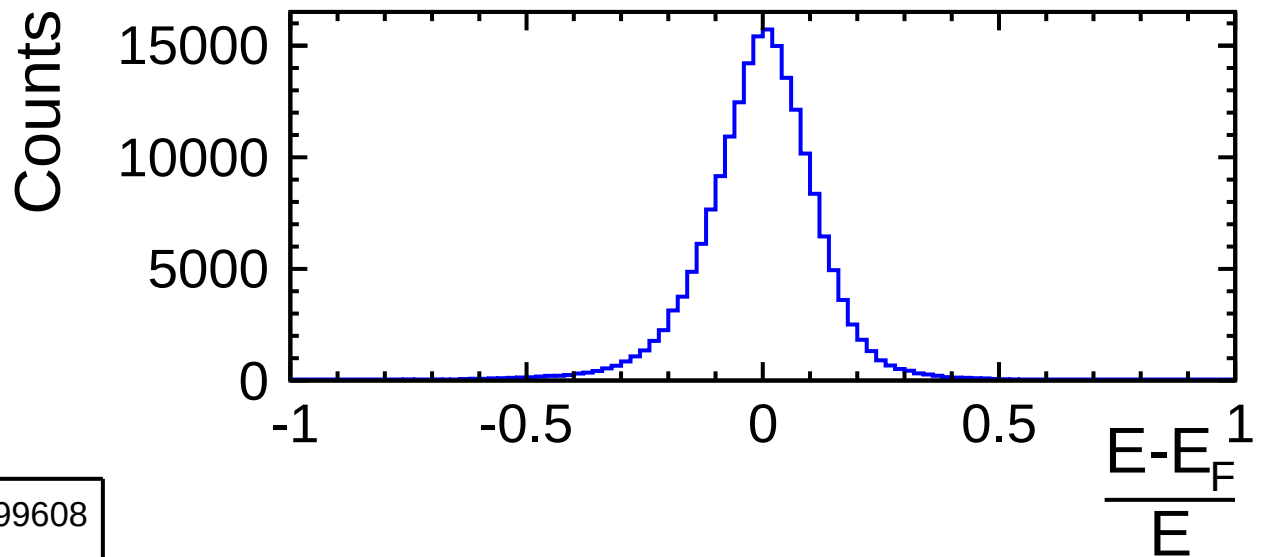
Entries	99688
Mean	-0.01578
RMS	0.1358

Energyresulution from Tau 1(blue) and Tau 2(red) (kinematic Fit)



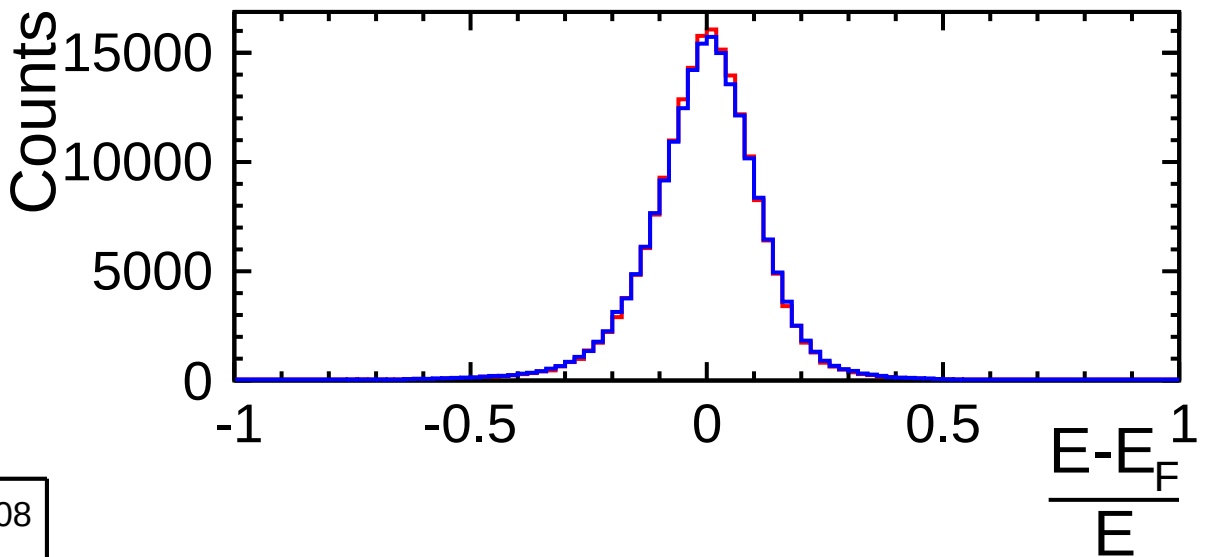
Entries	99688
Mean	-0.01578
RMS	0.1358

Energyresulution (kinematic Fit)



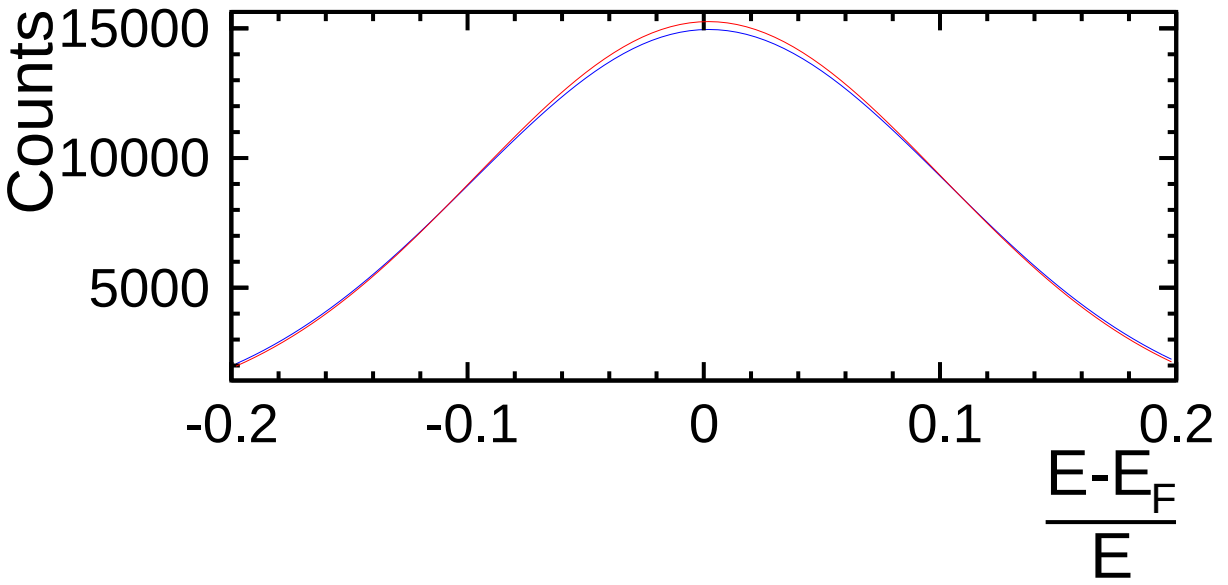
Entries	199608
Mean	-0.007018
RMS	0.1341

Energyresulution from the kinematic Fit(blue) and dynamic Fit (red)



Entries	199608
Mean	-0.007018
RMS	0.1341

Energyresulution from kinematic-(blue) and dynamic-fit(red) after an gaussian-fit



kinematic-fit

Mean: (2.071±0.271)*10^{-3}

σ: (1.00545±0.00275)*10^{-1}

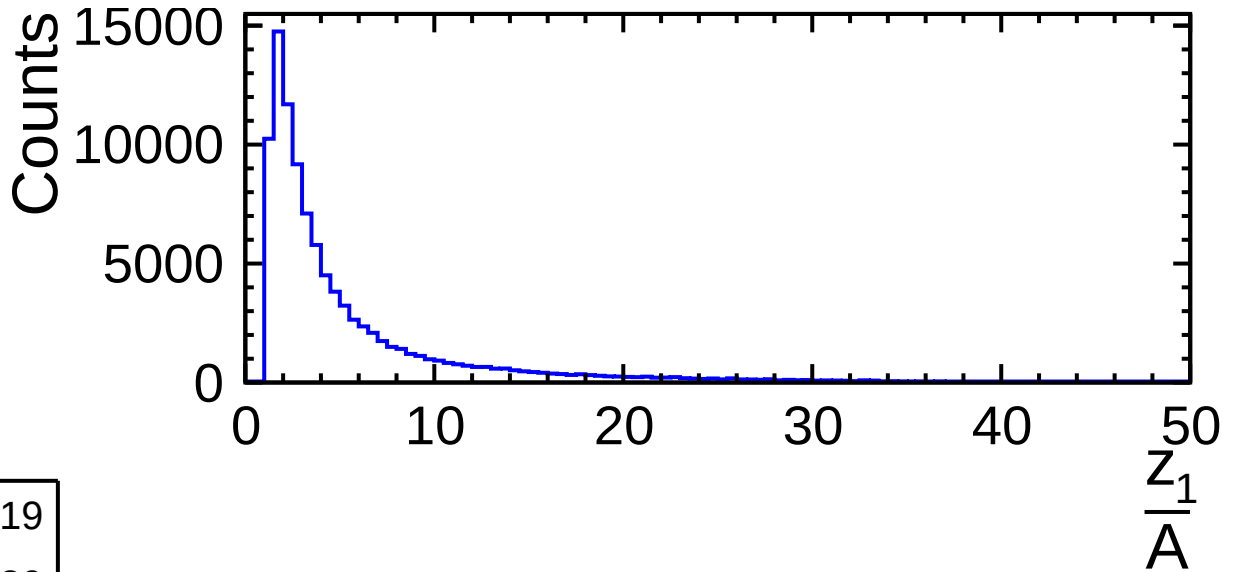
dynamic-fit

Mean: (1.970±0.263)*10^{-3}

σ: (0.98891±0.00264)*10^{-1}

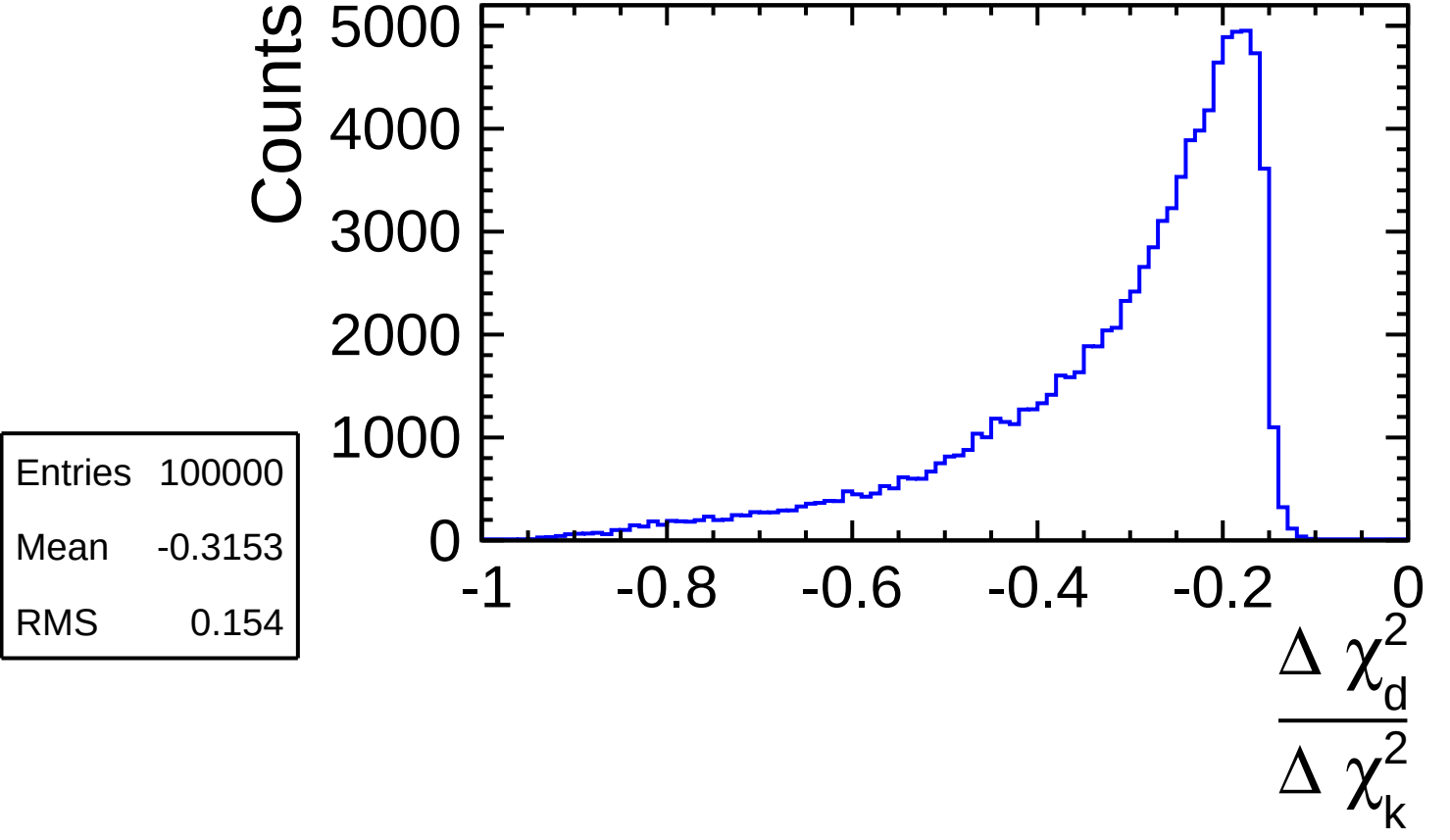
$\frac{\Delta\sigma}{\sigma}$: (1.645± 0.368)%

$\frac{z_1}{A}$,z= $\frac{E_{vis}}{E}$, A=z_1*z_2 (χ^2_d=-2*ln(4*(z_1-A)))

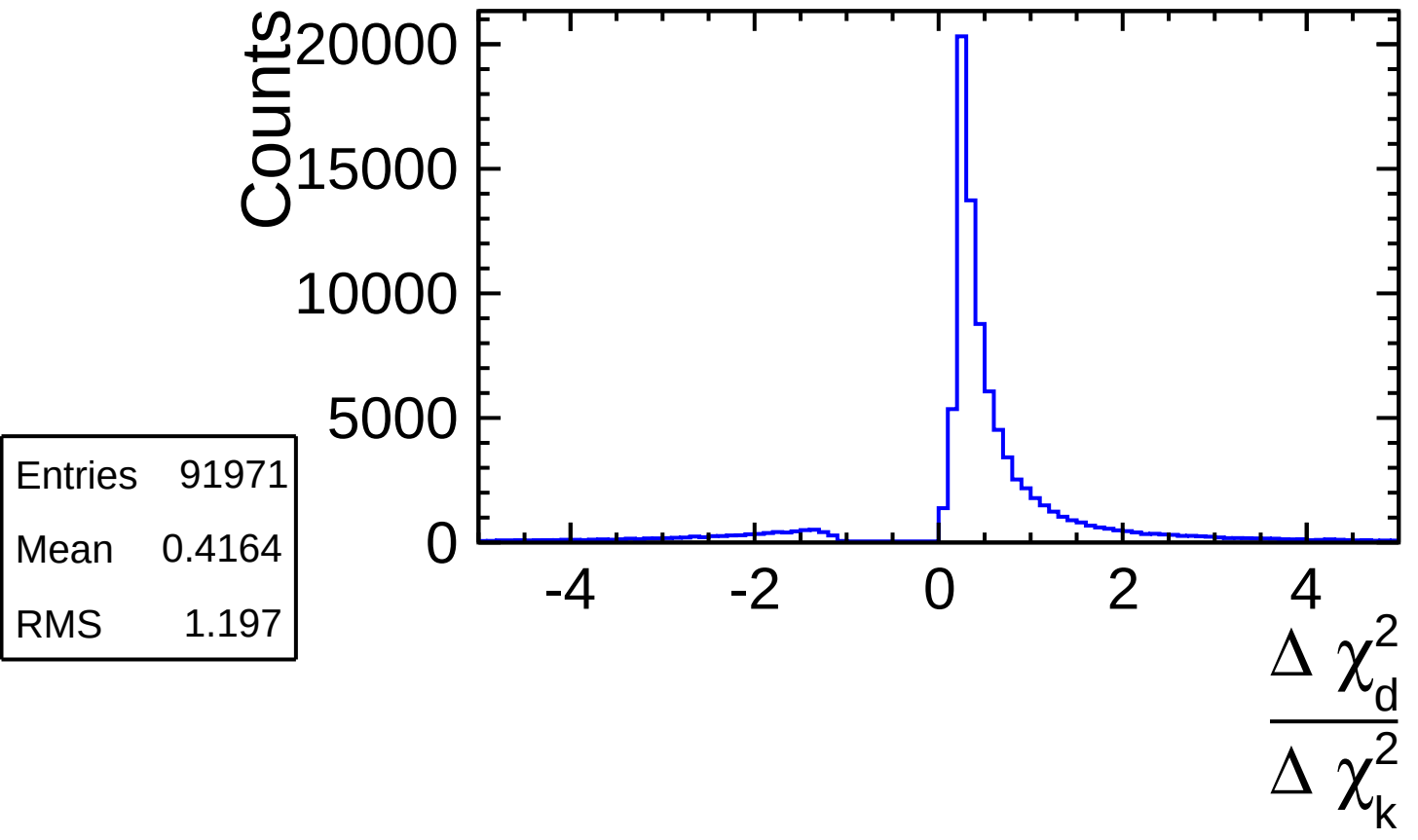


Entries	99919
Mean	5.639
RMS	6.213

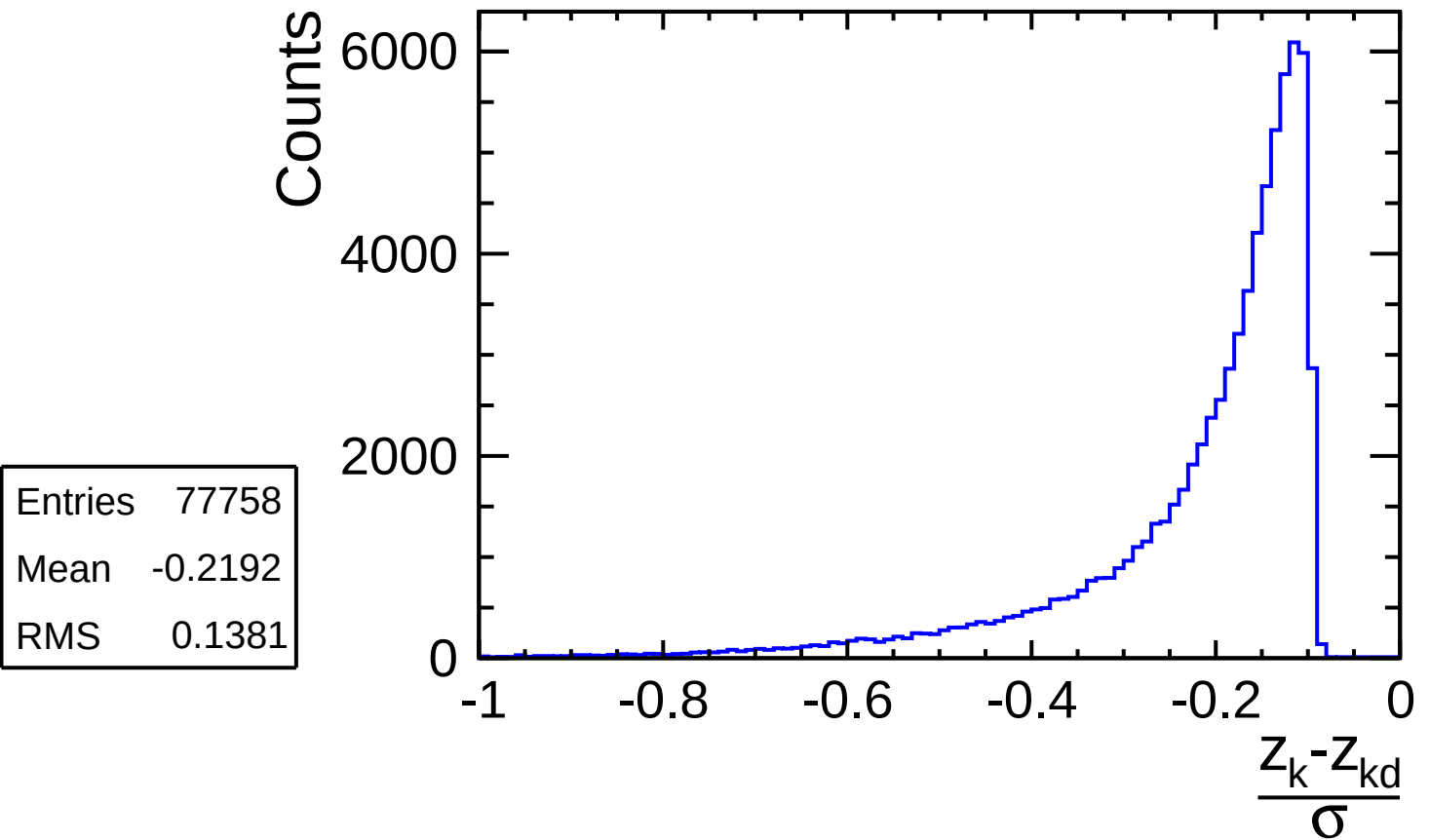
$\frac{\Delta\ \chi^2_d}{\Delta\ \chi^2_k}$ **for** $\frac{\Delta z}{z}$**=+10%**



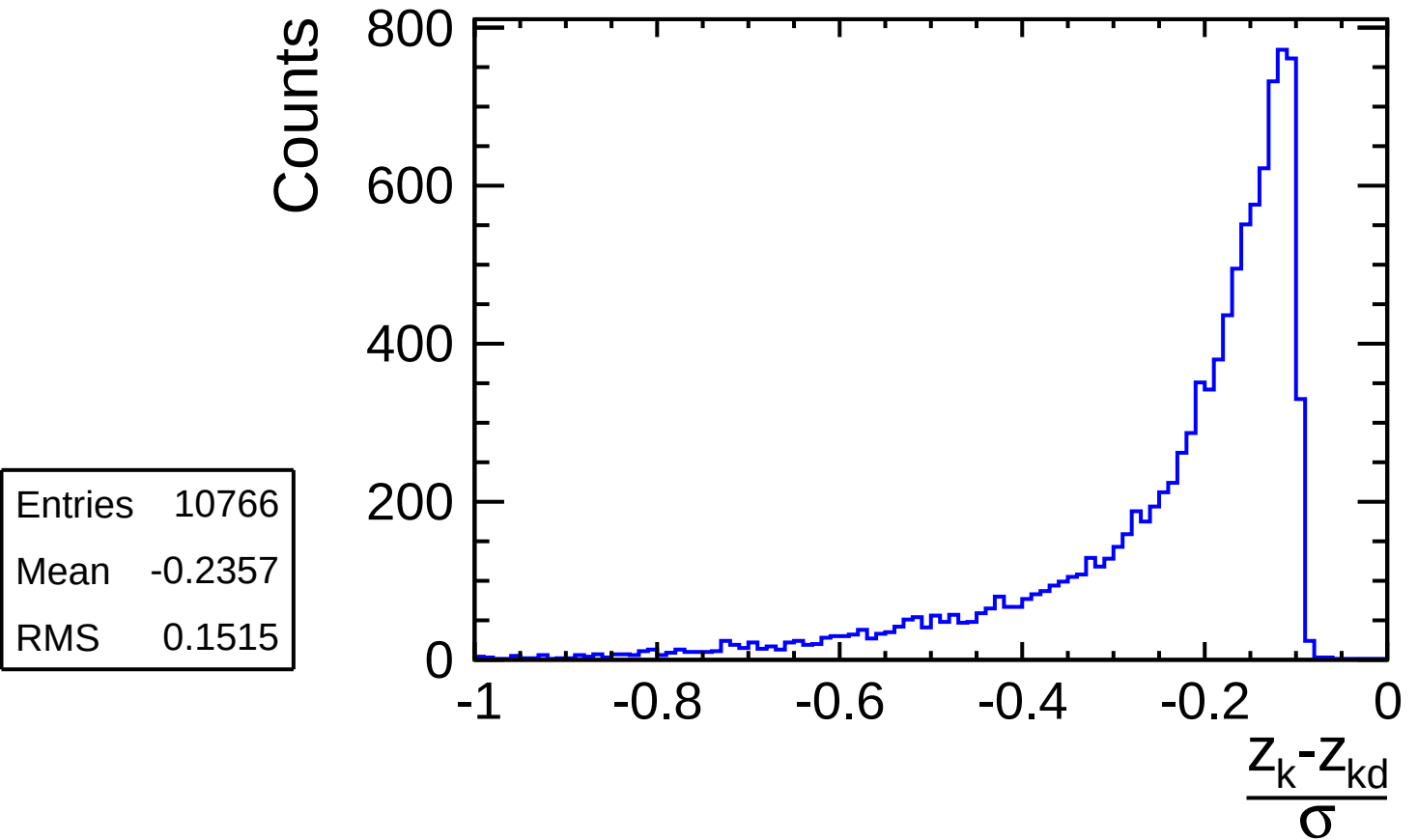
$\frac{\Delta\ \chi^2_d}{\Delta\ \chi^2_k}$ for $\frac{\Delta z}{z}$=-10%



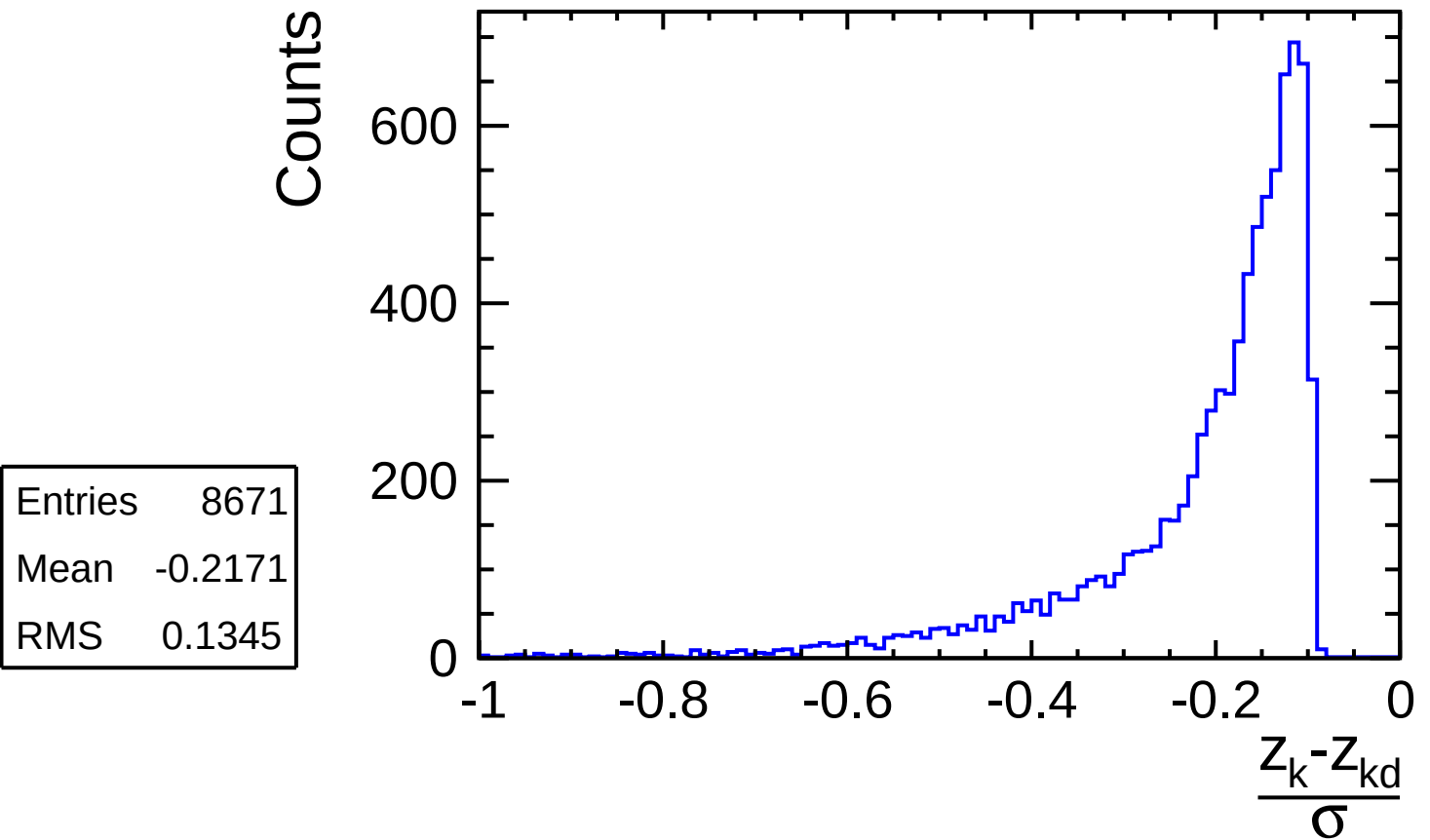
Impact of the dynamic constraint on the final energyfraction



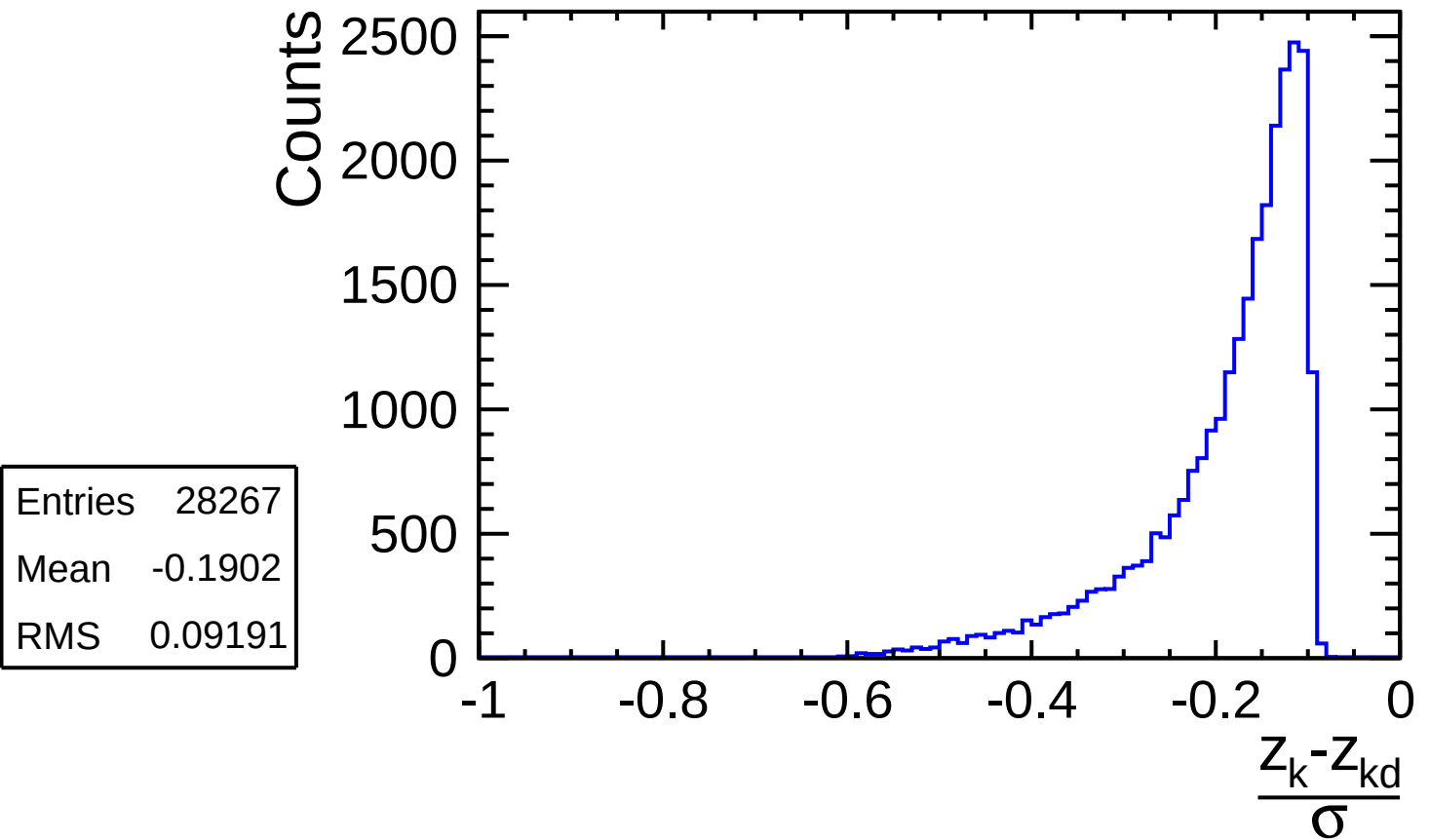
Impact of the dynamic constraint on the final energyfraction (z>0.85)



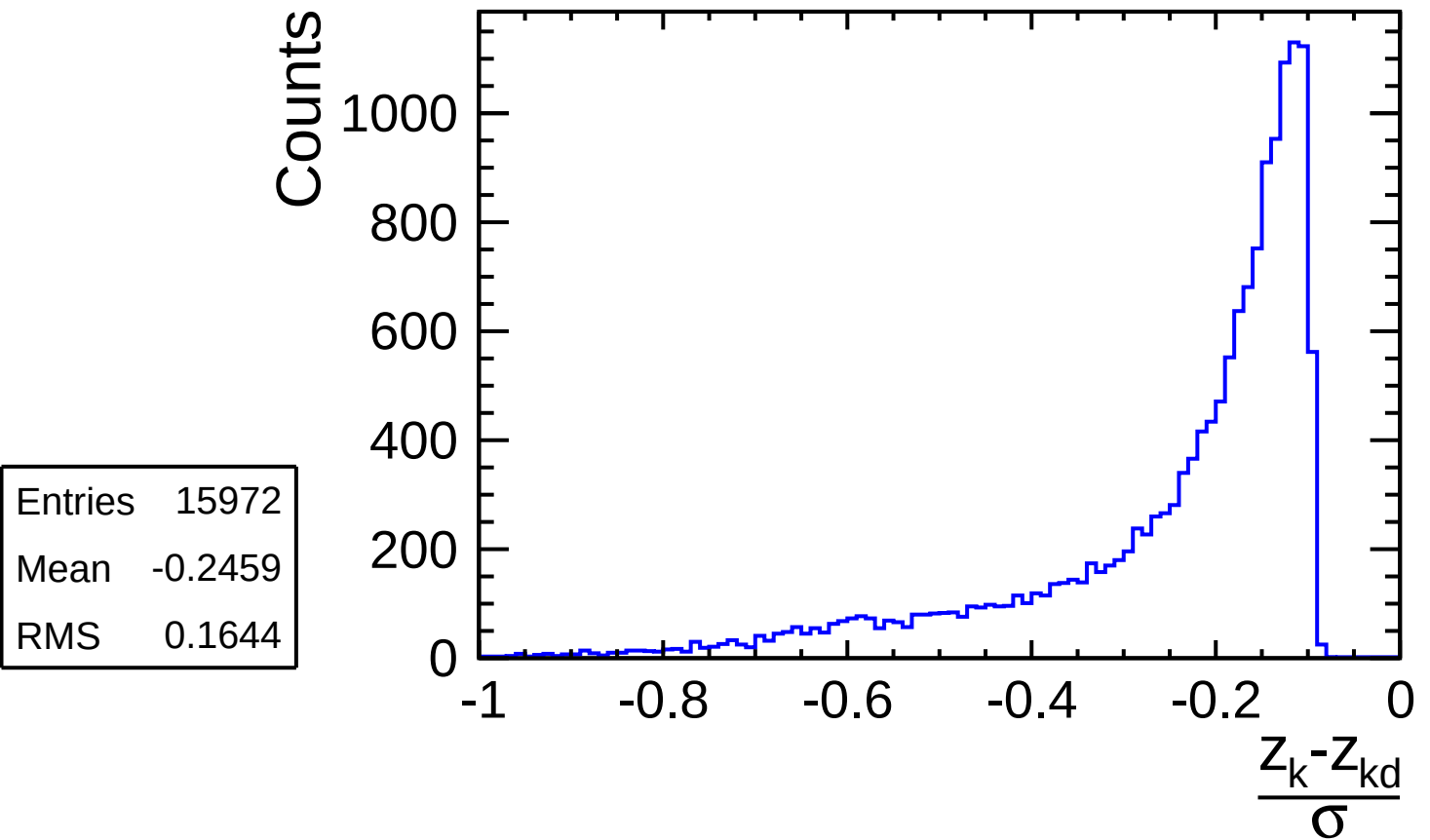
Impact of the dynamic constraint on the final energyfraction (z<0.3)

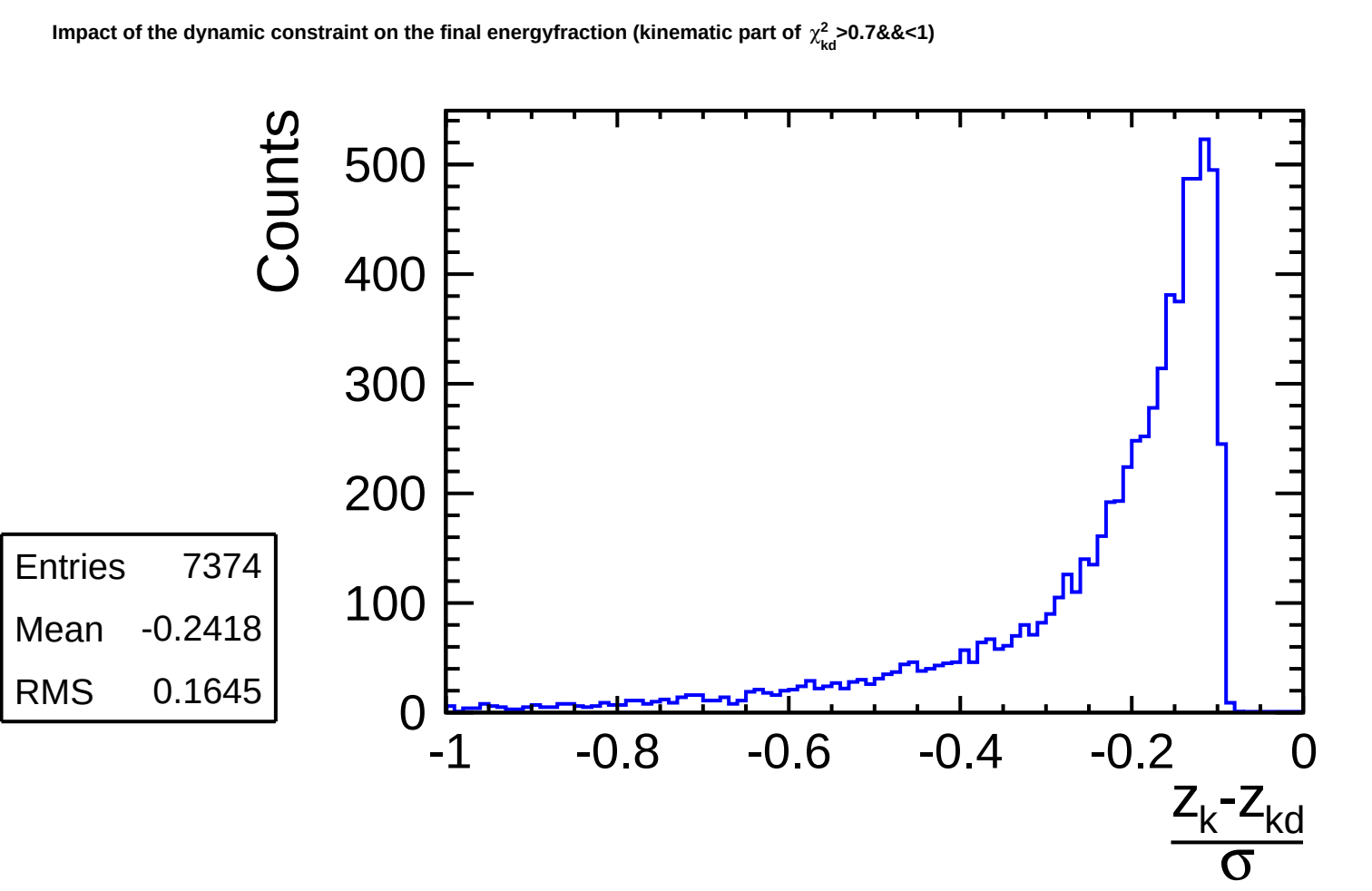


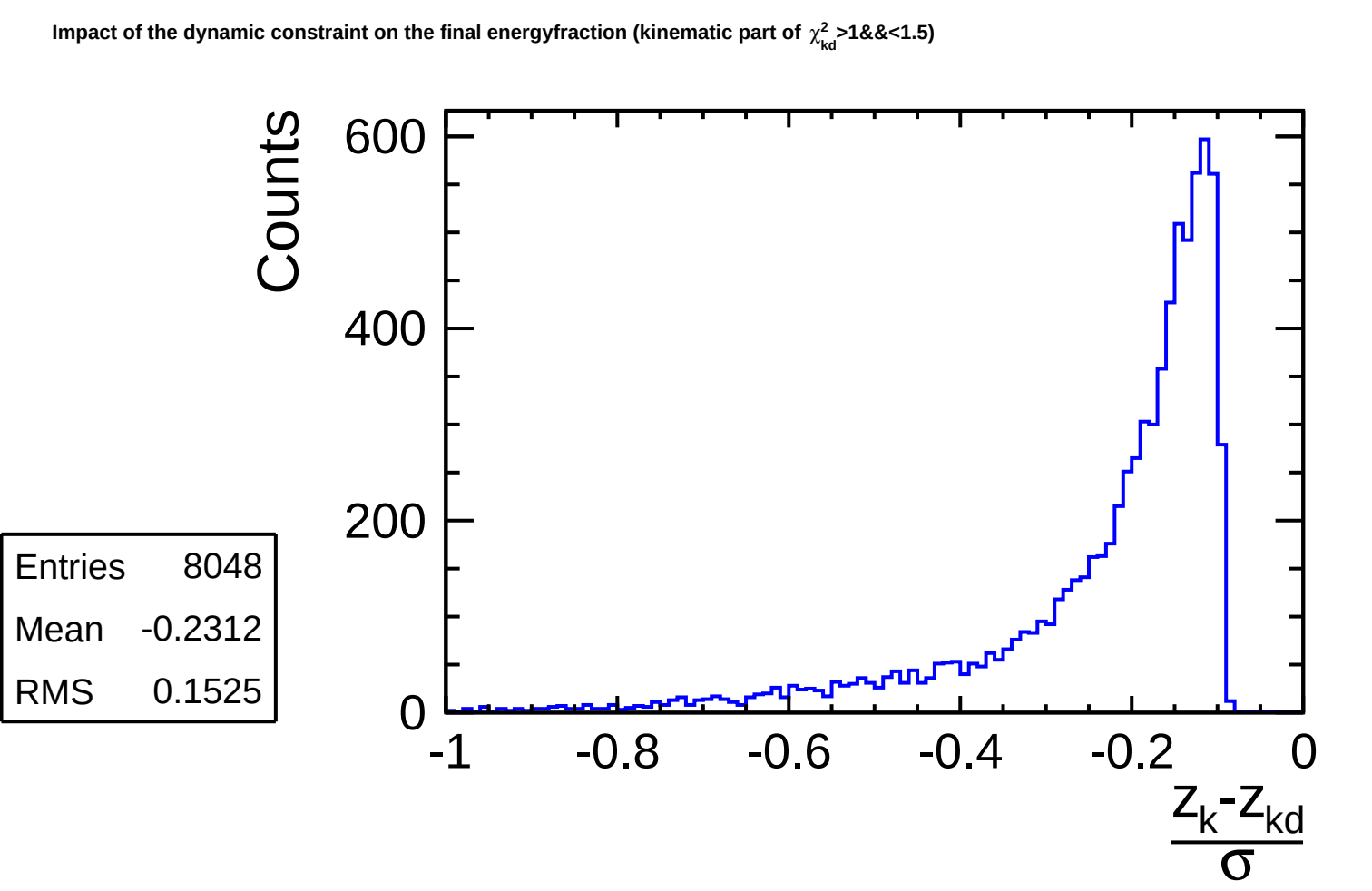
Impact of the dynamic constraint on the final energyfraction (kinematic part of χ^2_{kd}<0.3)



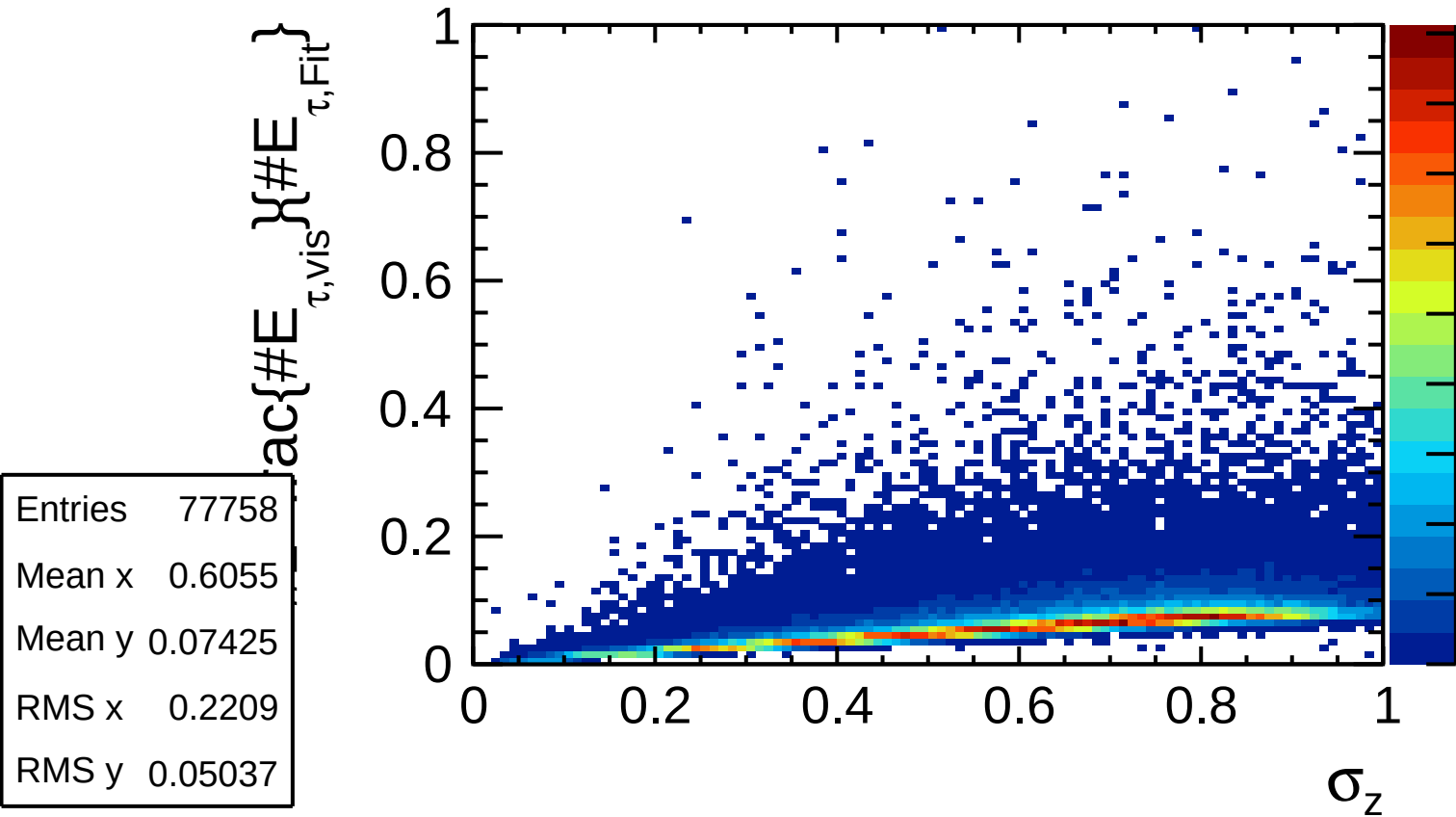
Impact of the dynamic constraint on the final energyfraction (kinematic part of χ^2_{kd} >0.3&&<0.7)



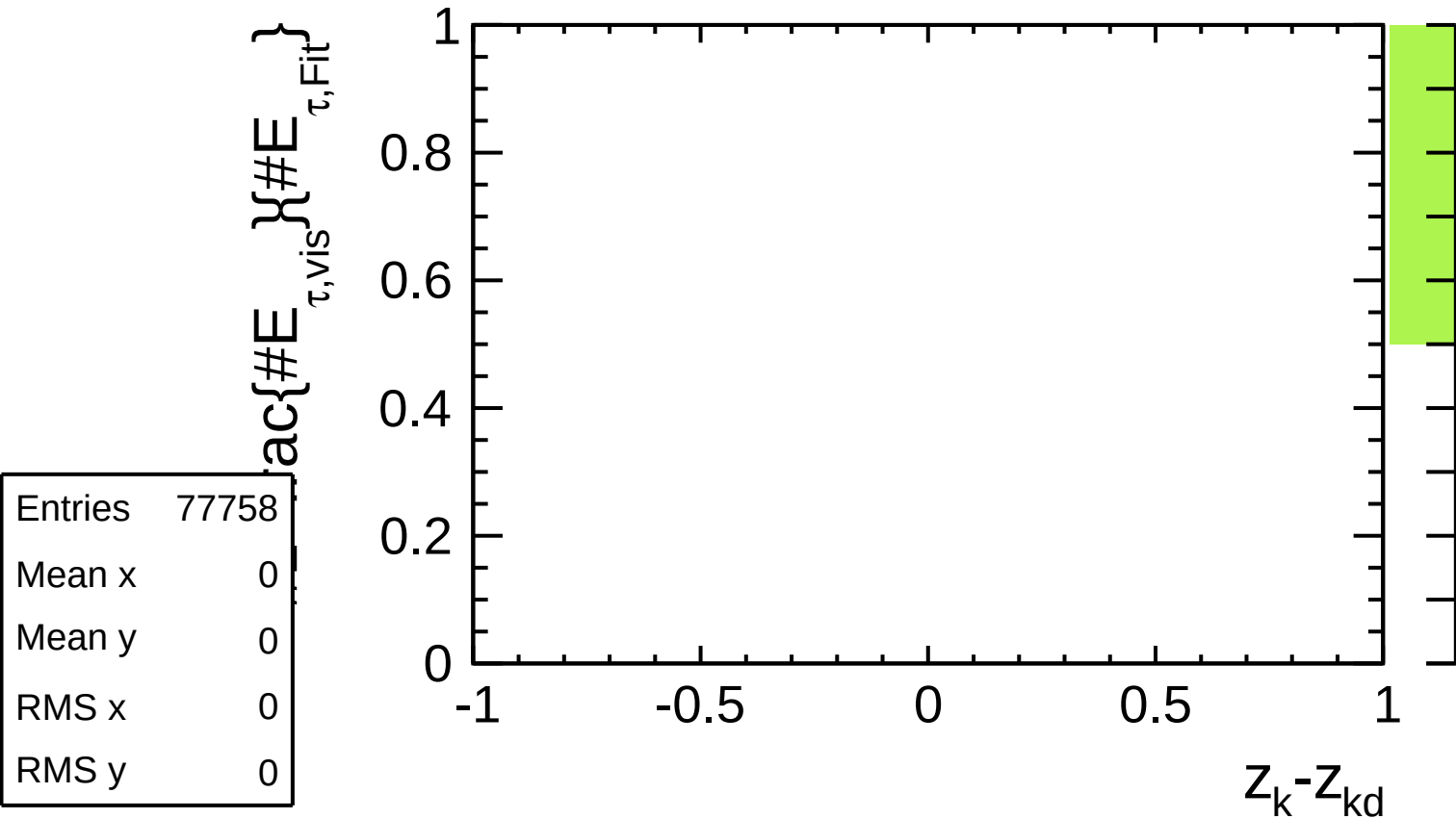

Impact of the dynamic constraint on the final energyfraction (kinematic part of χ^2_{kd}>0.7&&<1)
Counts
500
400
300
200
100
0
-1
-0.8
-0.6
-0.4
-0.2
0
$\frac{z_k - z_{kd}}{\sigma}$
Entries 7374
Mean -0.2418
RMS 0.1645


Impact of the dynamic constraint on the final energyfraction (kinematic part of χ^2_{kd}>1&&<1.5)
Counts
600
400
200
0
-1
-0.8
-0.6
-0.4
-0.2
0
$\frac{z_k - z_{kd}}{\sigma}$
Entries 8048
Mean -0.2312
RMS 0.1525

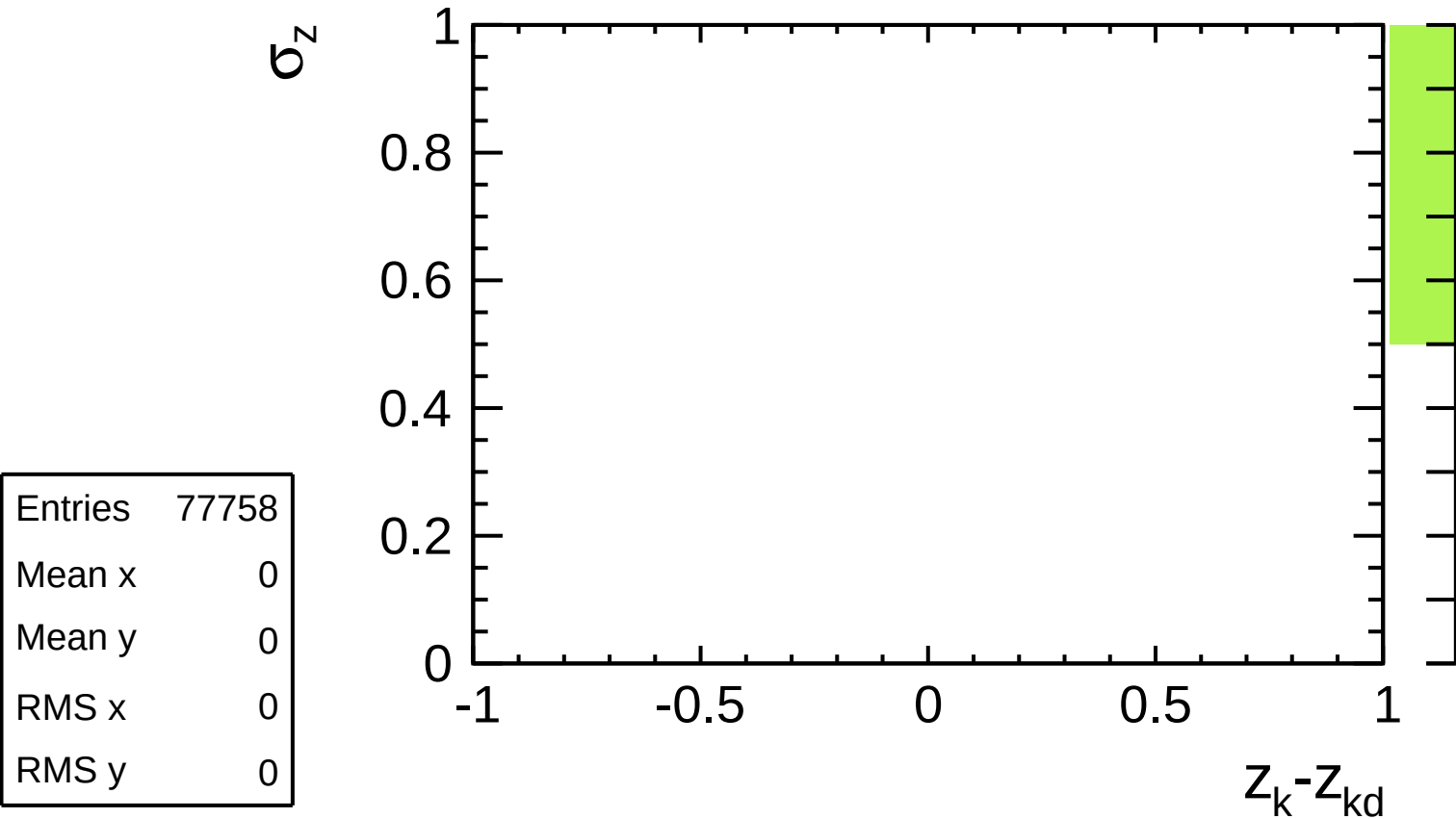
The Error from z_1 against z



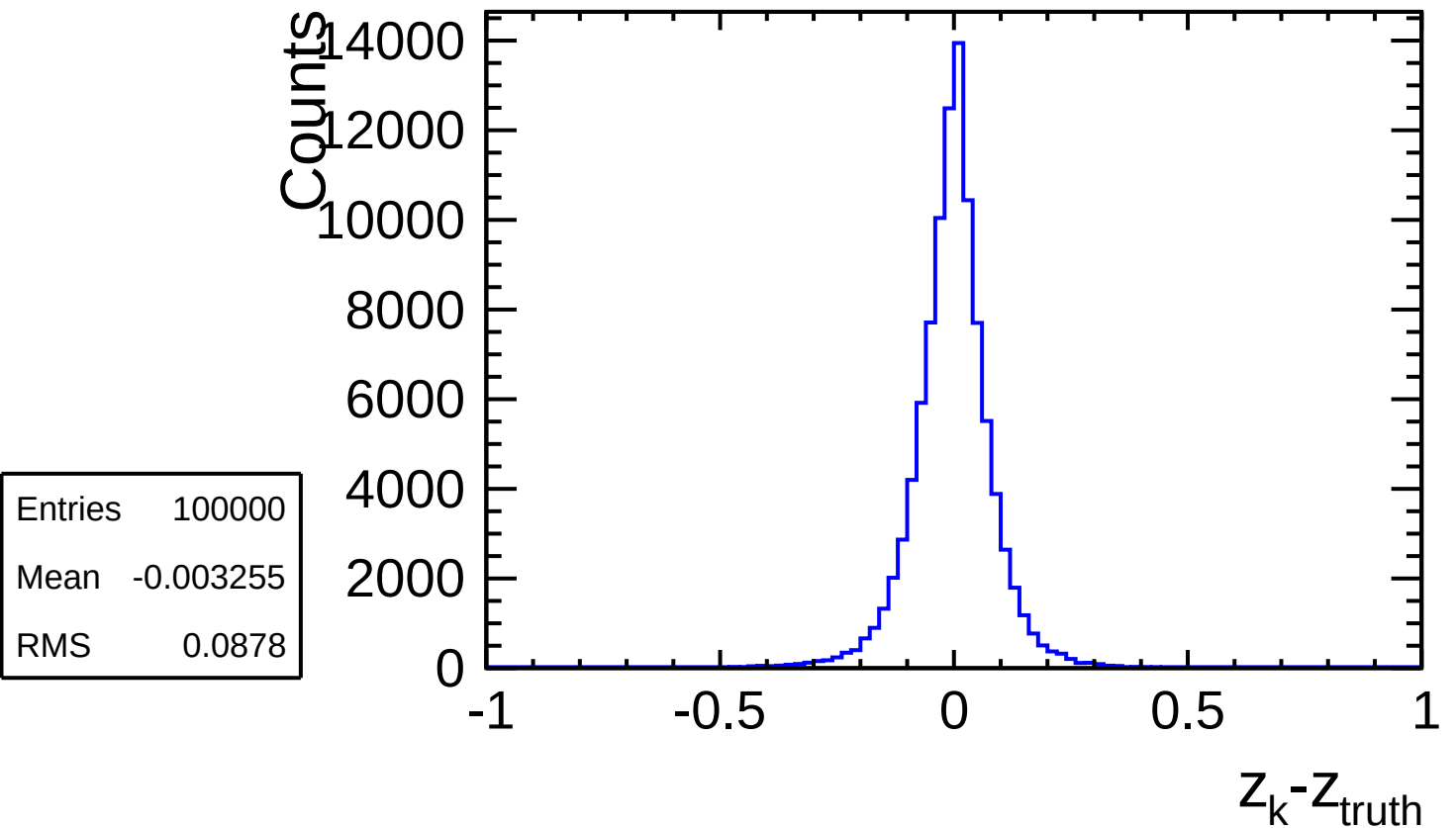
Impact of the dynamic constraint on the final energyfraction z against z

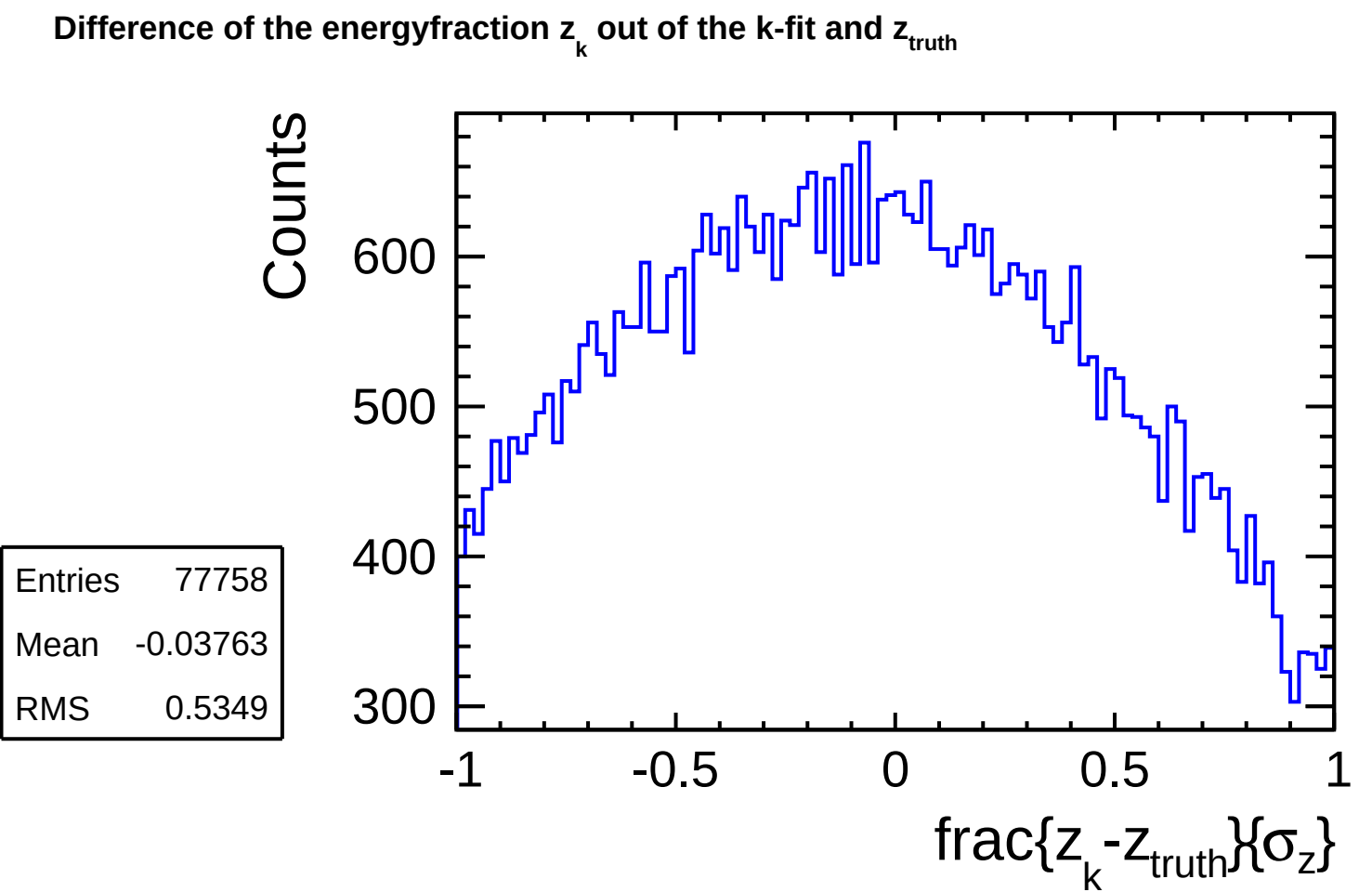


Impact of the dynamic constraint on the final energyfraction z against the errot on z

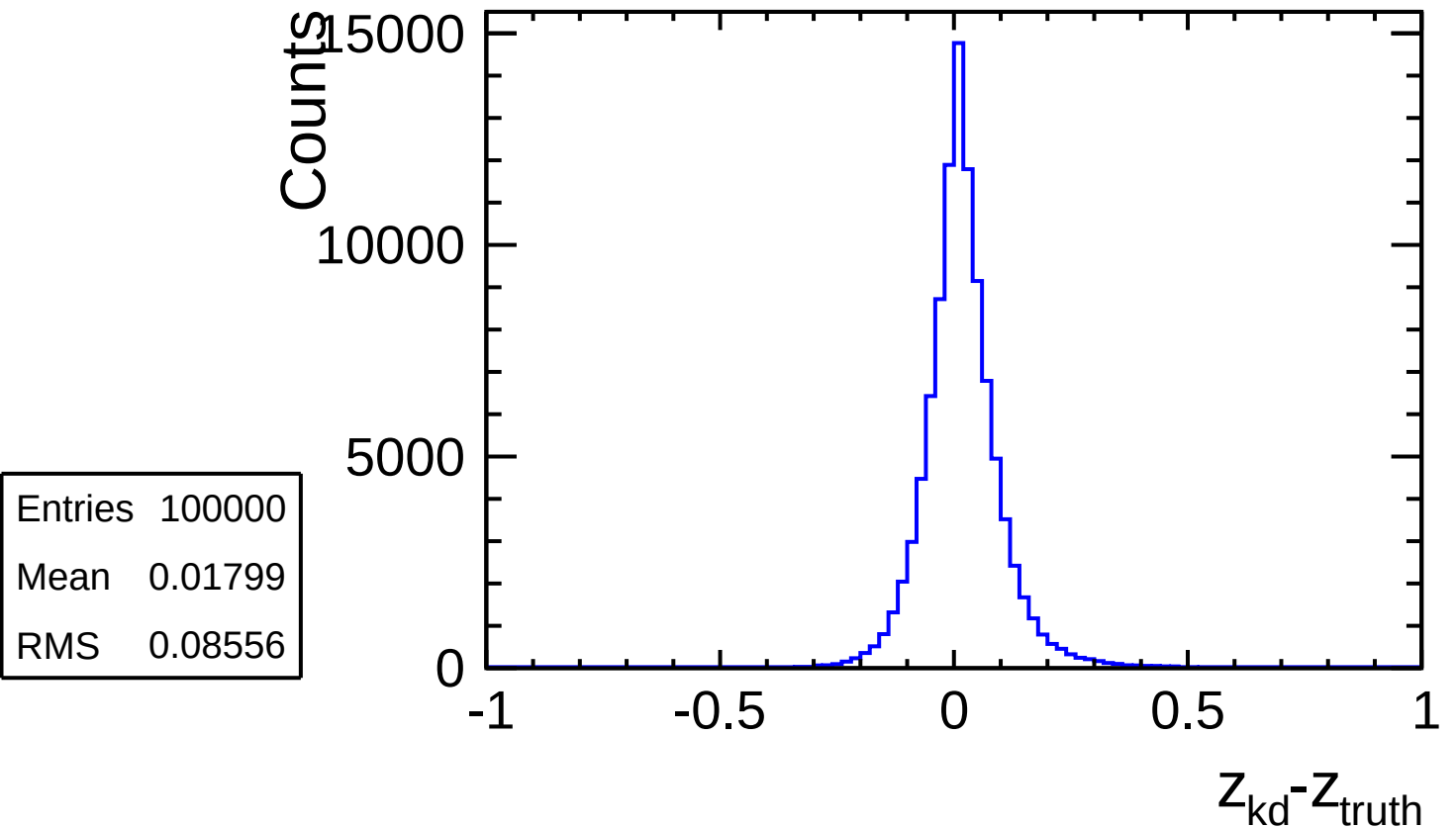


Difference of the energyfraction z_k out of the k-fit and z_{truth}




Difference of the energyfraction z_k out of the k-fit and z_{truth}
Counts
600
500
400
300
-1
-0.5
0
0.5
1
frac{z_k-z_{truth}}{σ_z}
Entries 77758
Mean -0.03763
RMS 0.5349

Difference of the energyfraction z_{kd} out of the k-fit and z_{truth}



Difference of the energyfraction z_{kd} out of the k-fit and z_{truth}