VERY PRELIMINARY RESULT OF MOORE'S PERFORMANCES USING GEANTINO BASED MATERIAL MAP IN THE RELEASE 7.0.0

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- Single Muon Events:
  $p_T = 6$ GeV (20 Kevents)
  $p_T = 20$ GeV (20 Kevents)
  $p_T = 50$ GeV (20 Kevents)

- Events reconstructed with MOORE
  - Geantino based material map (Armin)
  - Parametrization (Stefania)

- Comparison of results

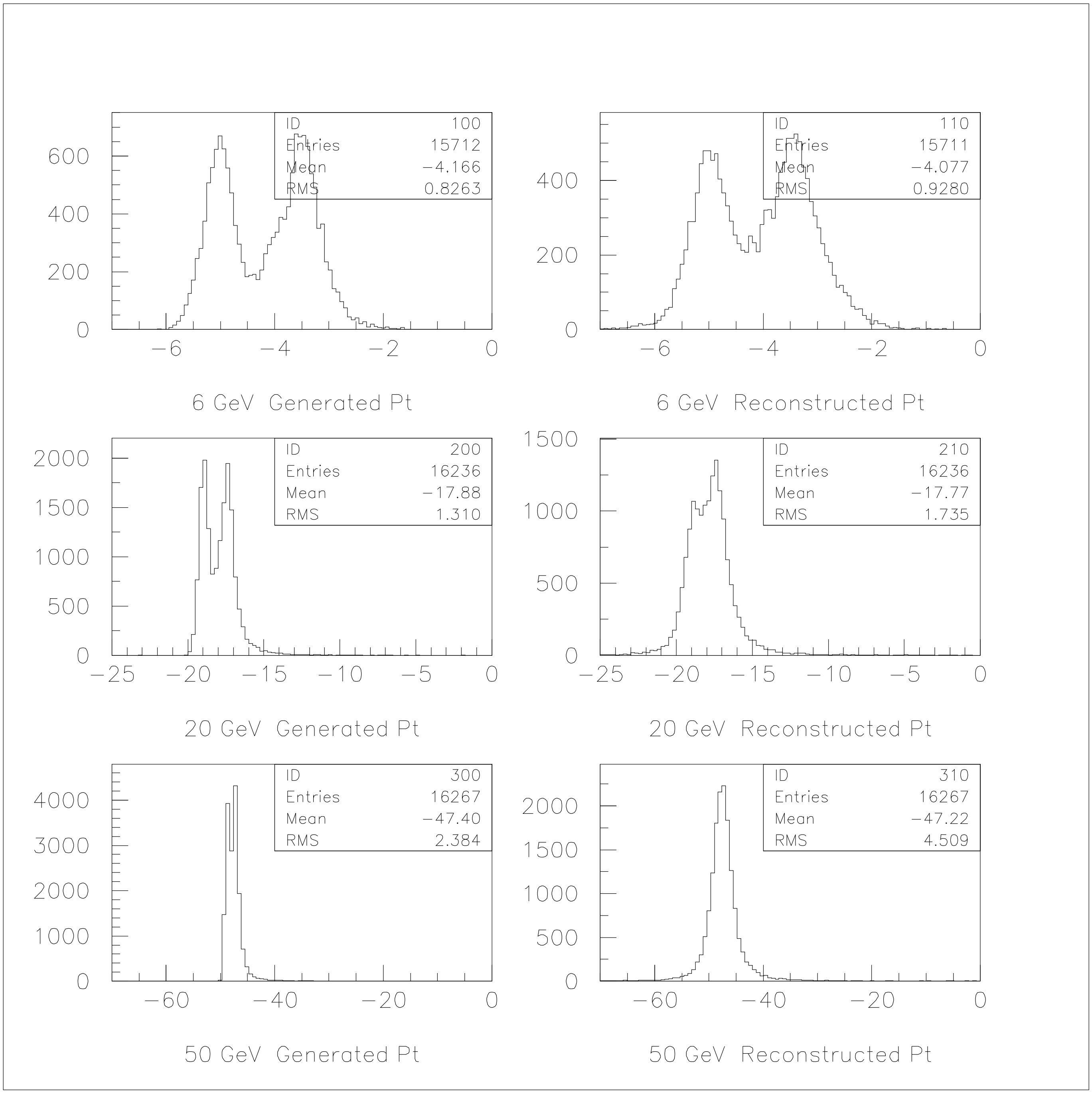

Figure 1: *Generated p_T (left) and reconstructed p_T (right) at differents values $(6, 20, 50$ GeV) in the full spectrometer.*

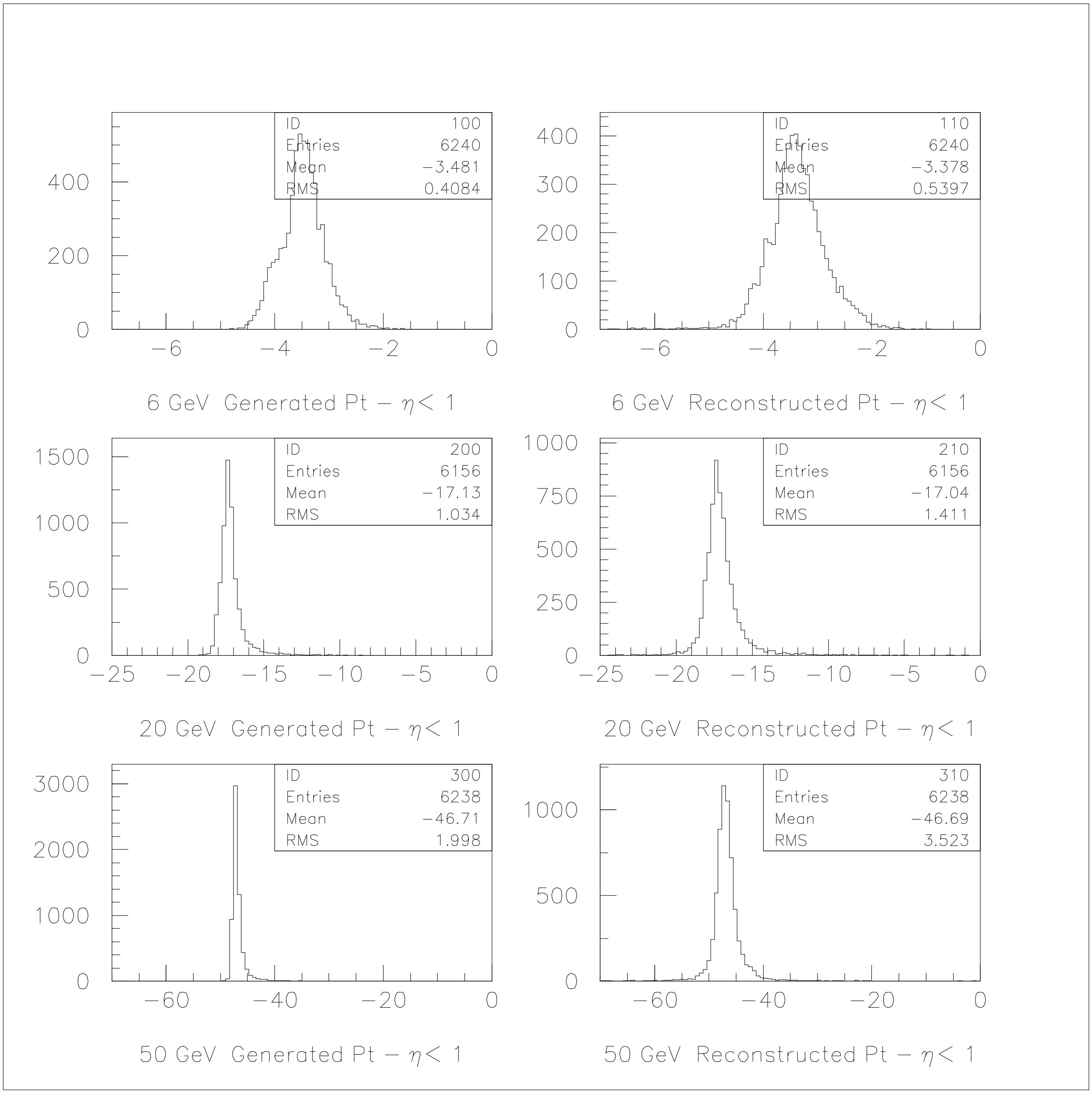

Figure 2: *Generated p_T (left) and reconstructed p_T (right) at differents values ($6, 20, 50$ GeV) in the barrel region.*

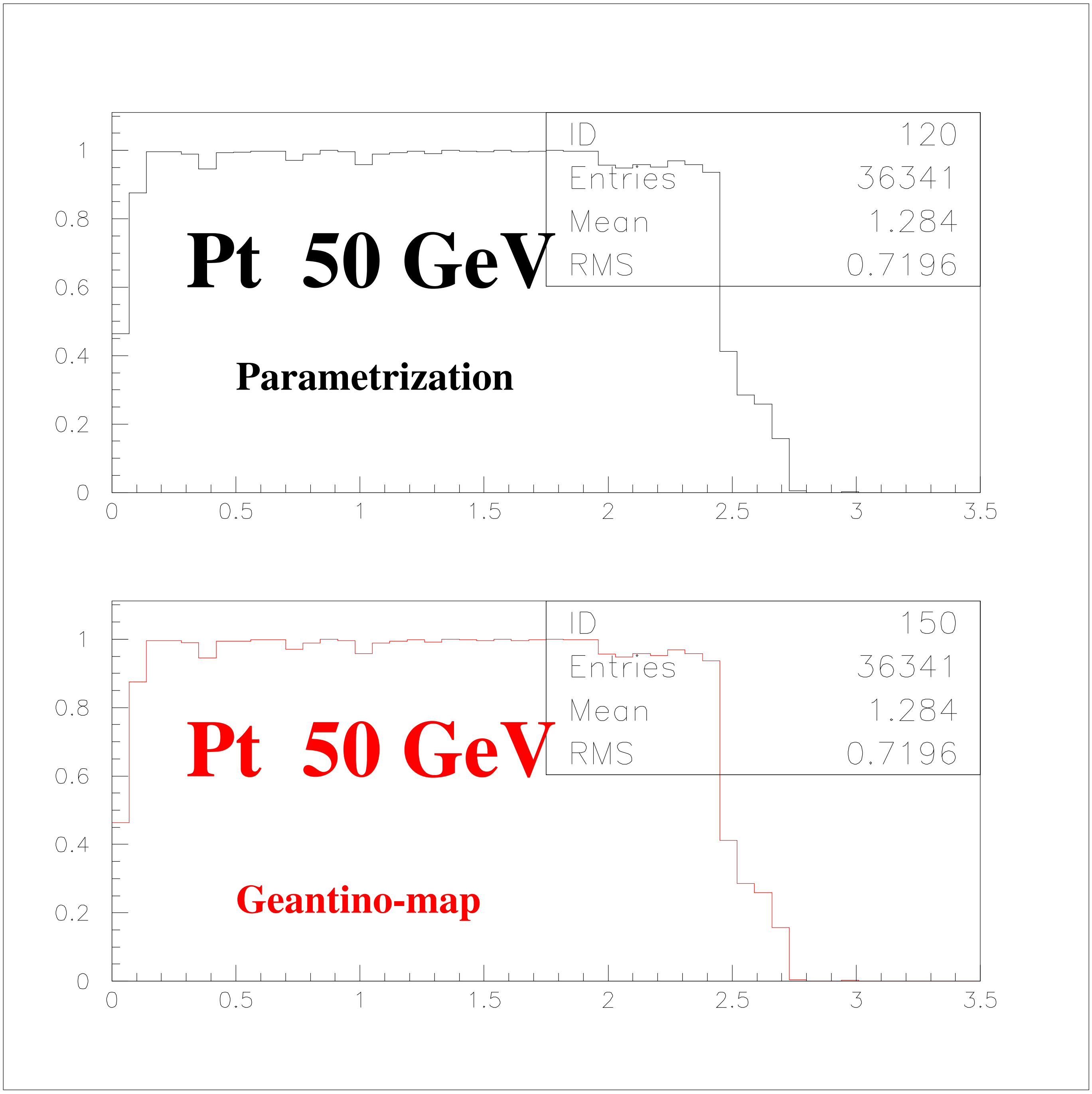

Figure 3: *Efficiency in η with parametrization (top) and with geantino based material map (bottom) for* 50 *GeV singles muons. The effciency is the same in the two cases: the plots match perfectly. This feature is valid at each analized p_T. Look at the following page for others p_T*

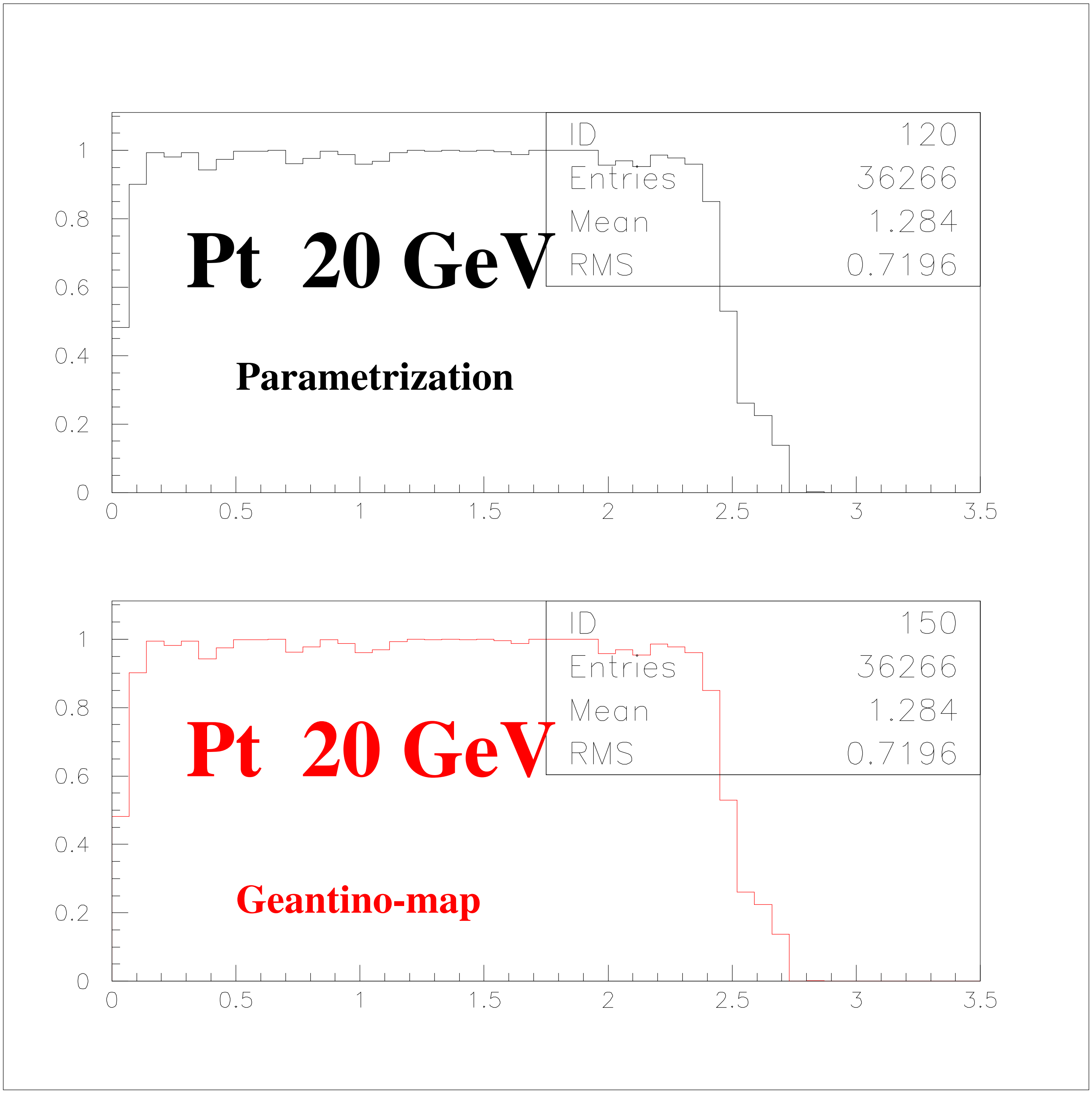

Figure 4: *Efficiency in η with parametrization (top) and with geantino based material map (bottom) for* 20 *GeV singles muons.*

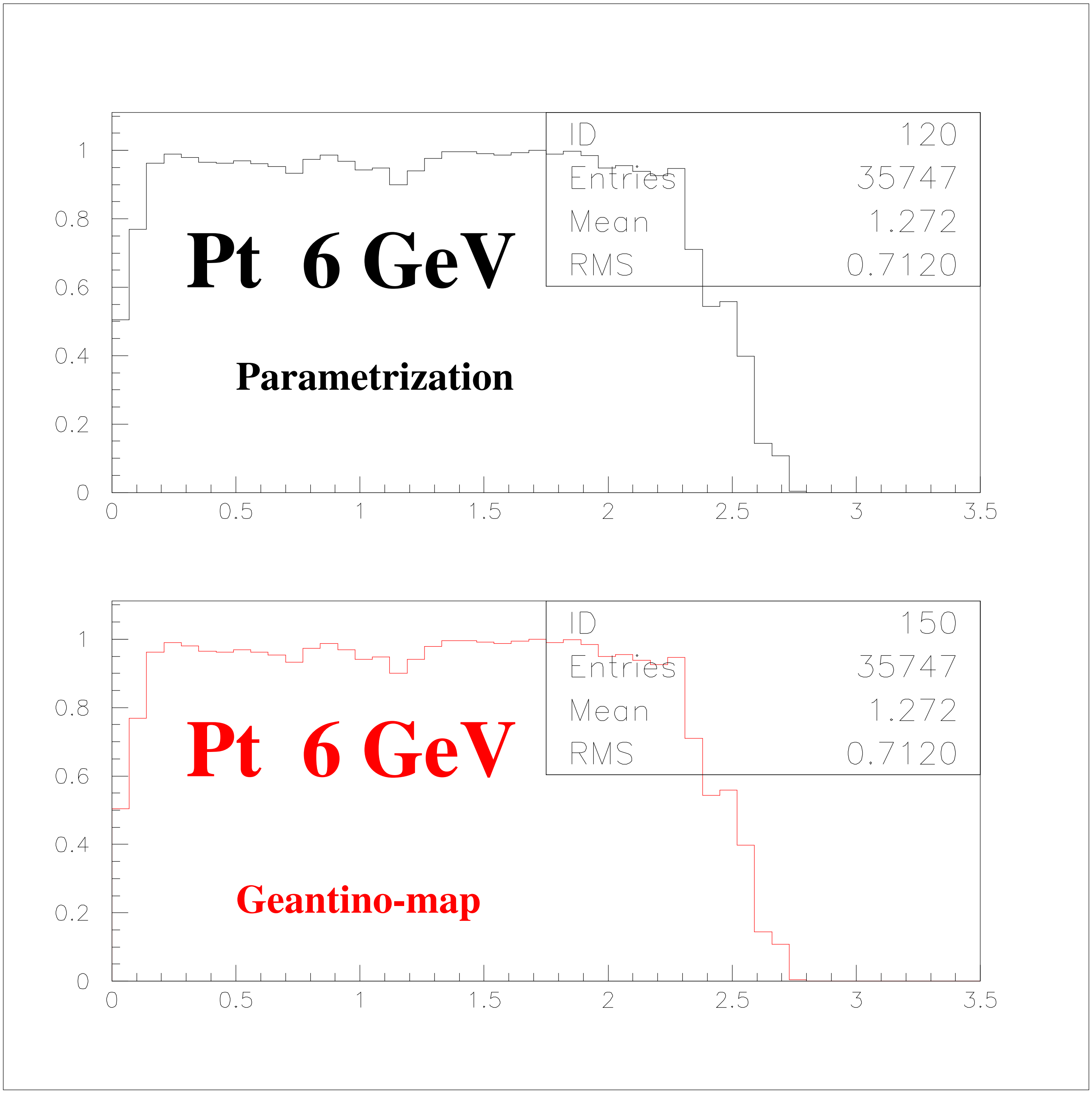

Figure 5: *Efficiency in η with parametrization (top) and with geantino based material map (bottom) for* 6 *GeV singles muons.*

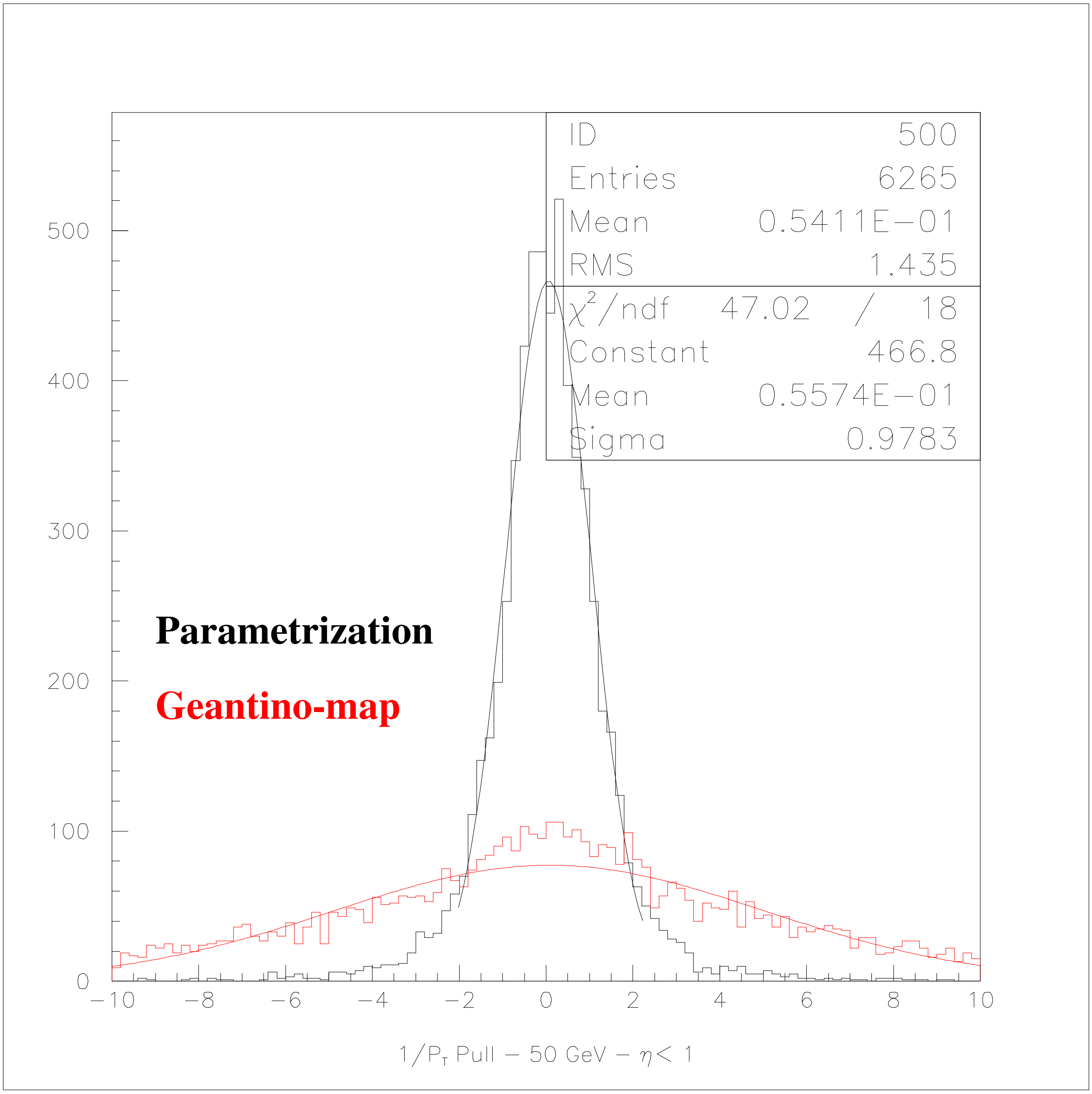

Figure 6: $\frac{1}{p_T}$ *pulls in the barrel region for* 50 *GeV singles muons.*

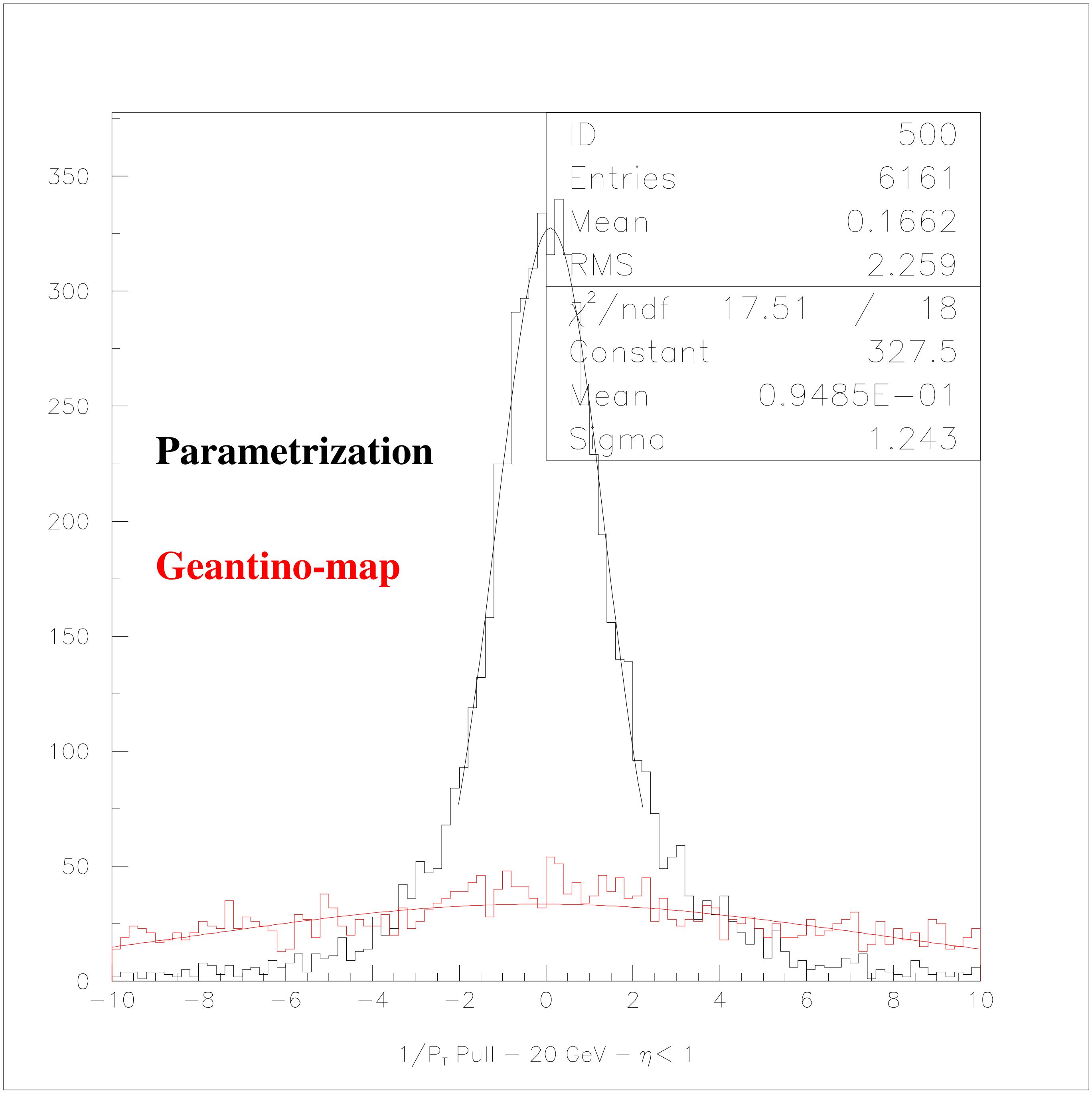

Figure 7: $\frac{1}{p_T}$ *pulls in the barrel region for* 20 *GeV singles muons.*

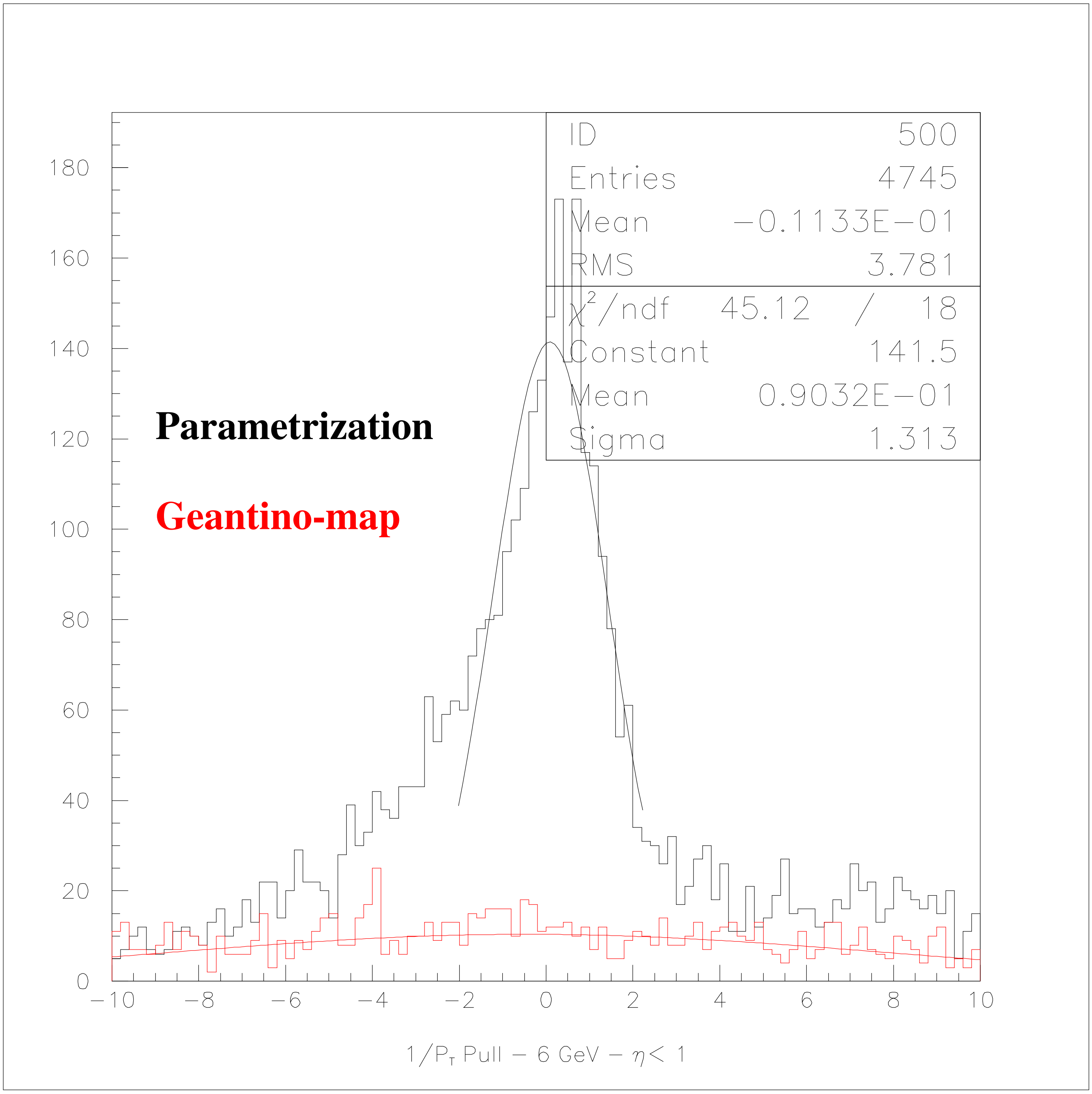

Figure 8: $\frac{1}{p_T}$ *pulls in the barrel region for* 6 *GeV singles muons.*

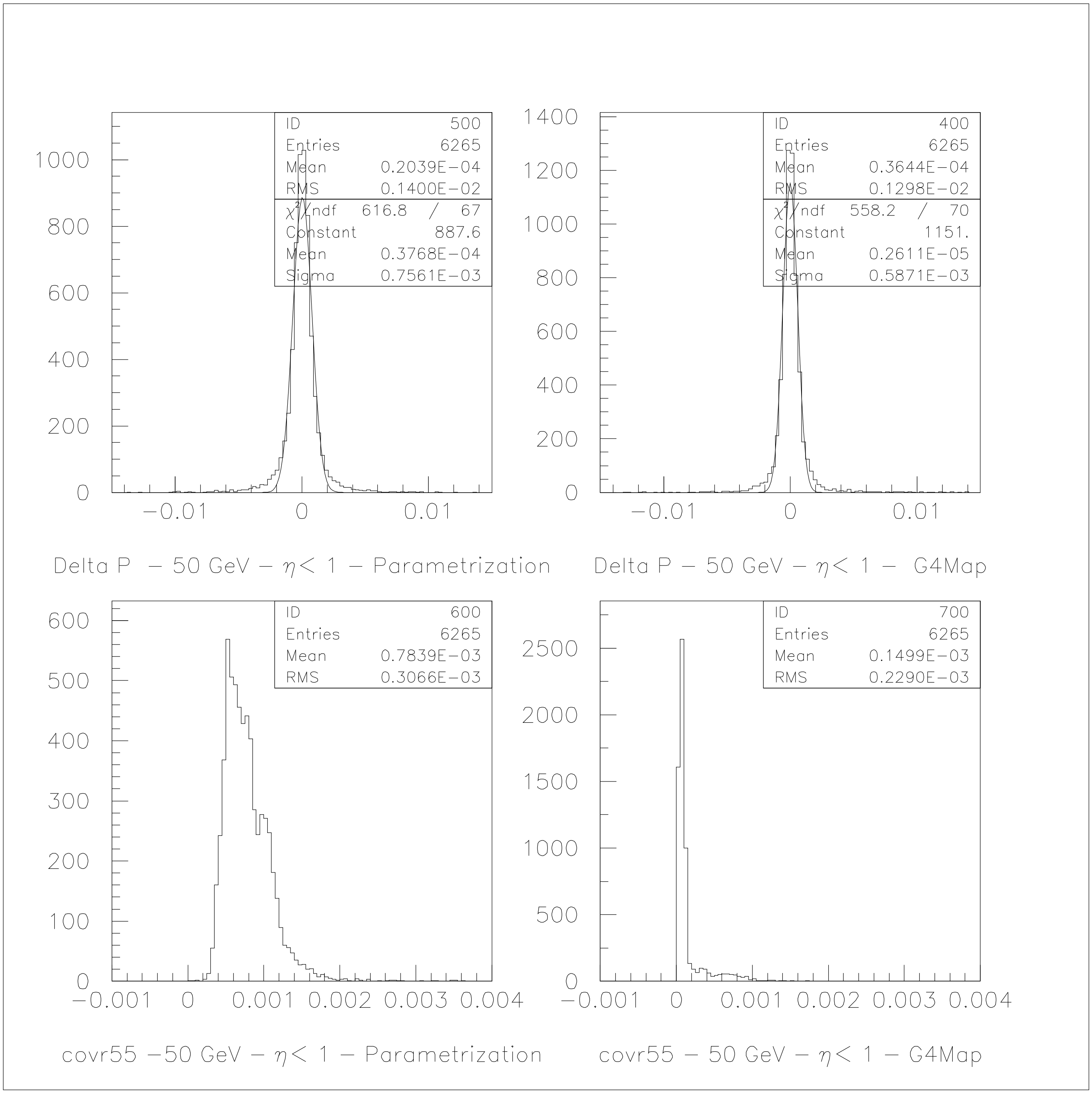

Figure 9: $\Delta(\frac{1}{p_T})$ *in the barrel region for* 50 *GeV singles muons and the corrispondent covariance matrix element (*$covr55mo$*), with (left) and without (right) geantino based material map.*

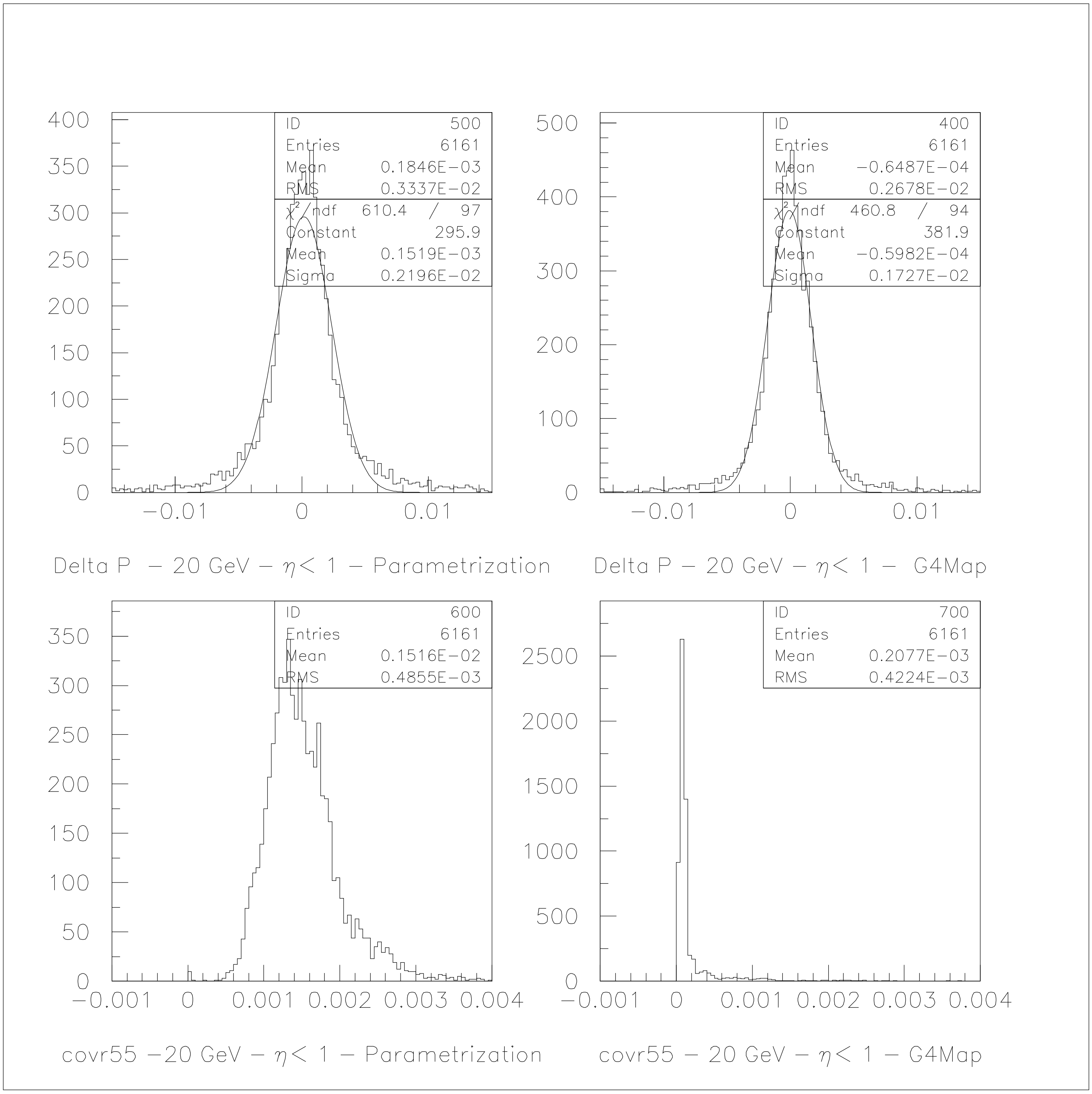

Figure 10: $\Delta(\frac{1}{p_T})$ *in the barrel region for* 20 *GeV singles muons and the corrispondent covariance matrix element (*$covr55mo$*), with (left) and without (right) geantino based material map.*

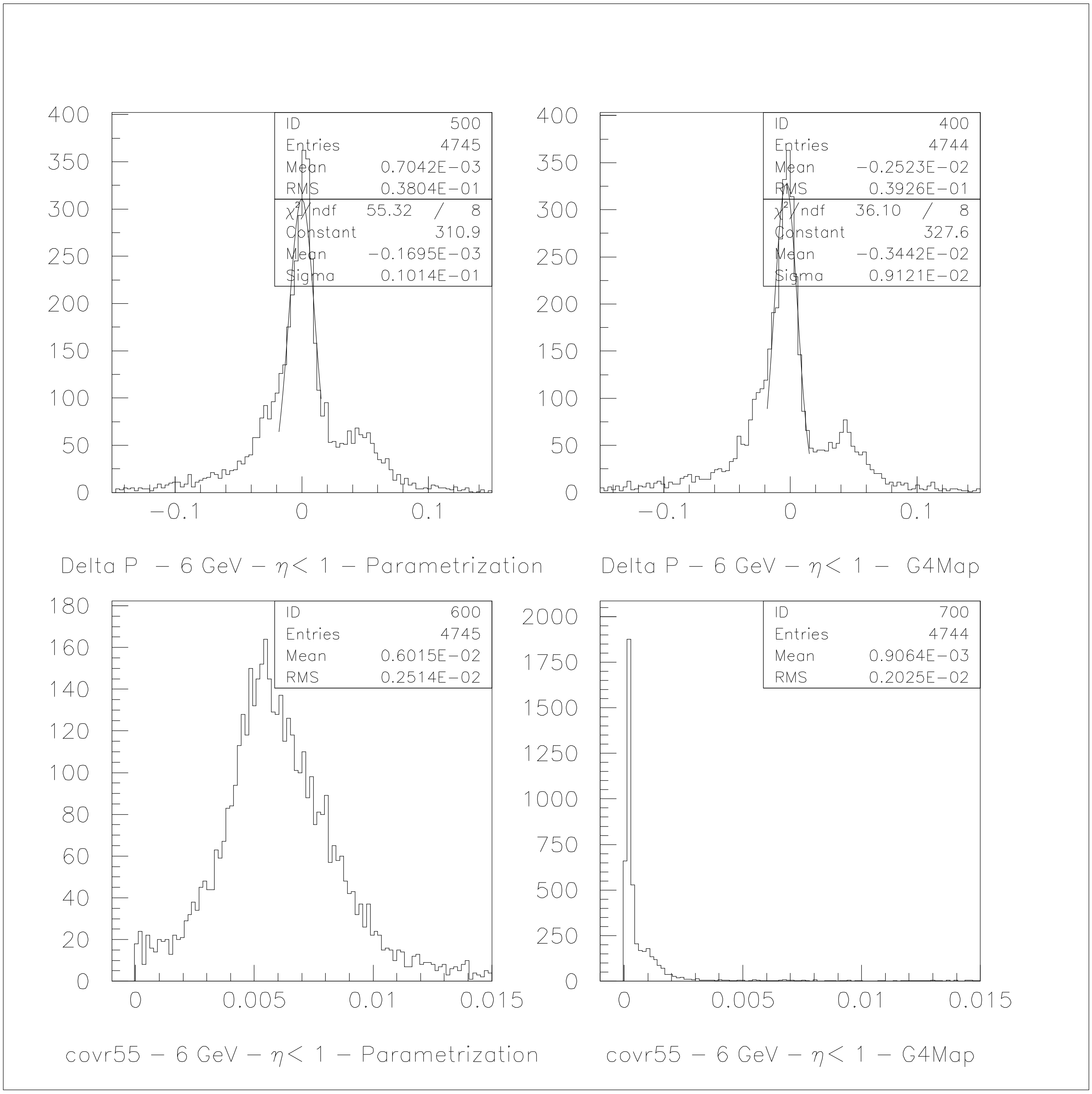

Figure 11: $\Delta(\frac{1}{p_T})$ *in the barrel region for* 6 *GeV single muons and the corrispondent covariance matrix element (*$covr55mo$*), with (left) and without (right) geantino based material map.*

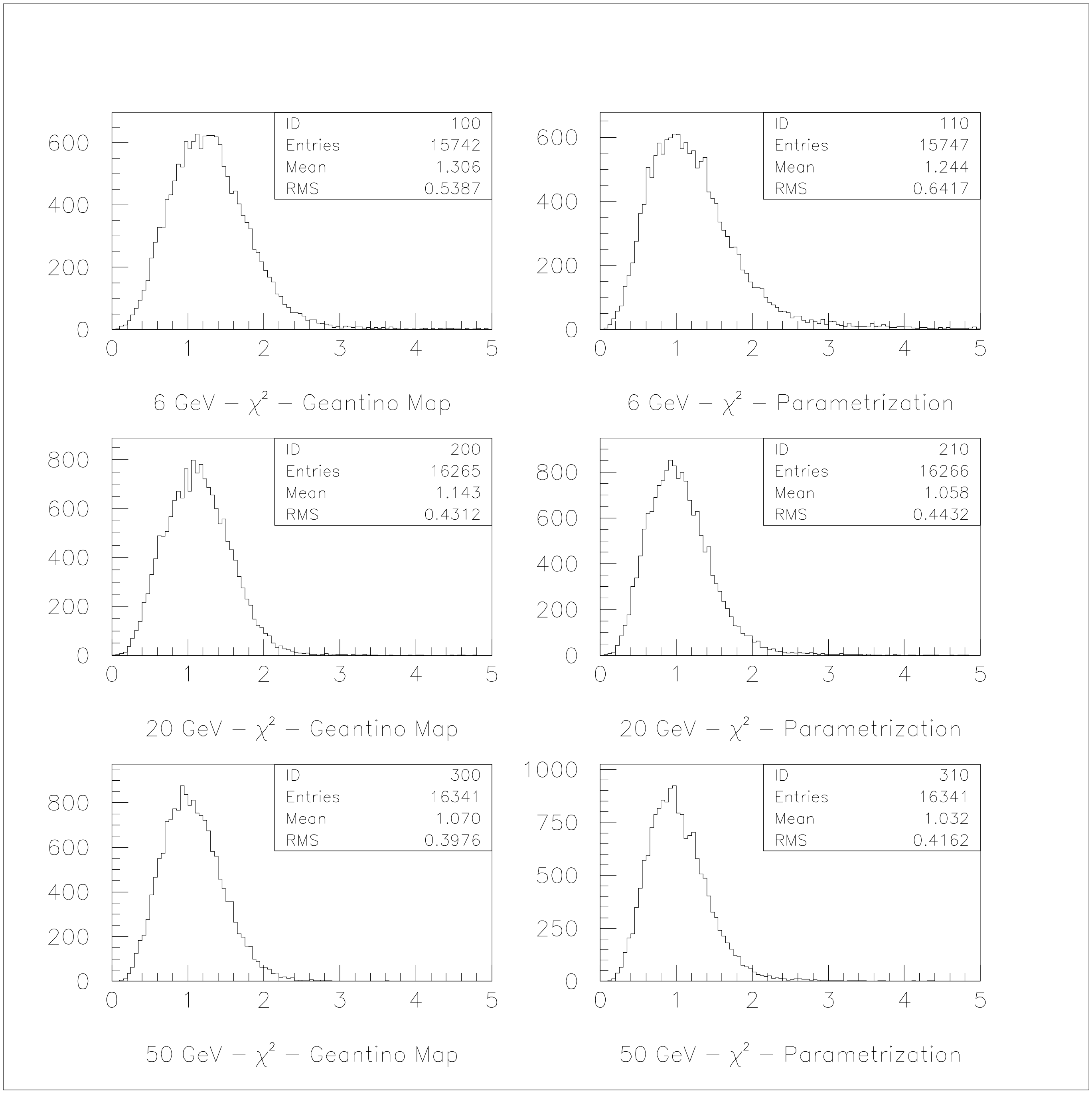

Figure 12: χ^2 *for every* p_T *value in the full Spectrometer: on the left with the geantino based material map, and on the right with the parametrization.*