Subject: Re: GENFIT for  transverse momenta < 200 GeV/c strange?!
Posted by David Pohl on Mon, 22 Nov 2010 19:56:15 GMT
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Hi Everybody,

I found some cases where the helix prefit is still better than
the kalman fit. Again I used the same parameters but different
particles.

Kaons (efficiency loss, background):

Protons (efficiency loss, worse result):

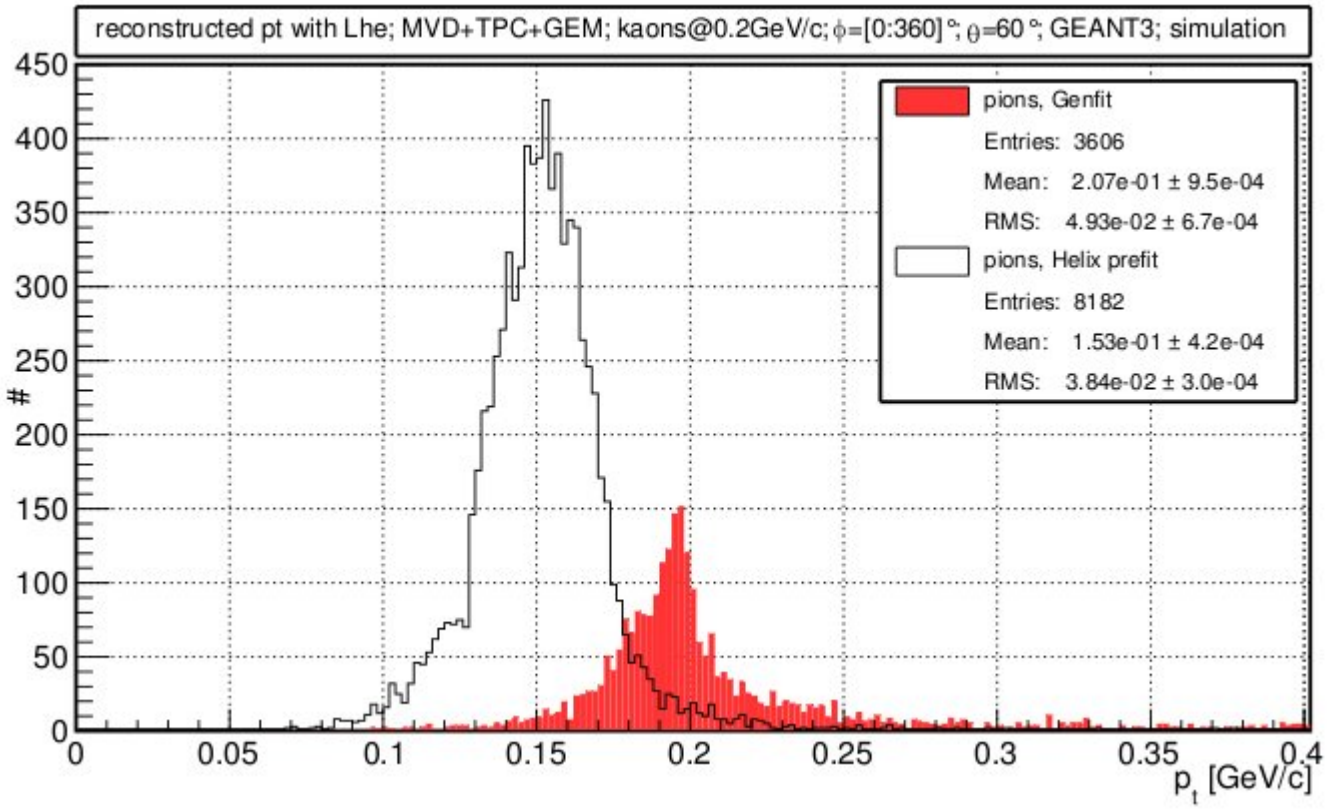
The flags for the failed Kalman fits are in both cases:
90%: -1
10%: -2

@Lia: thank you for the short tutorial

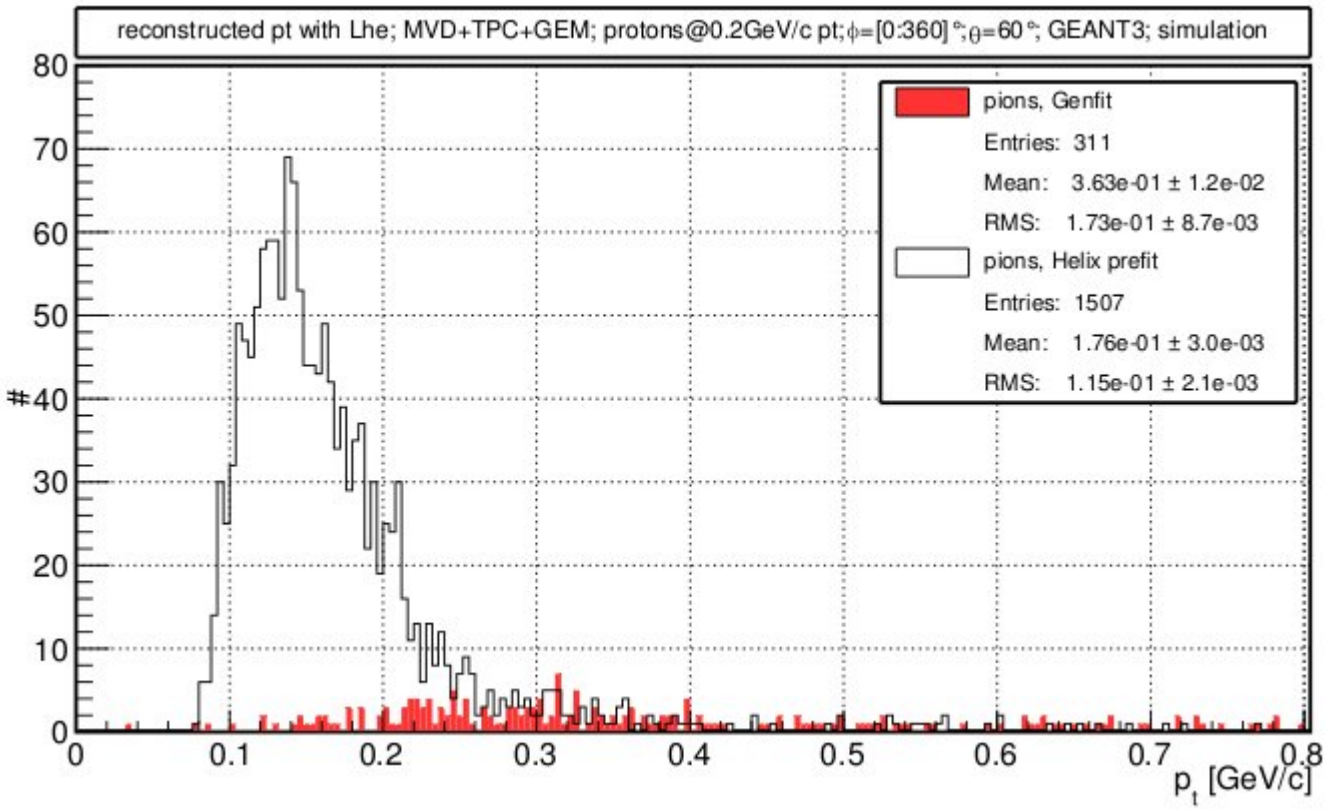
greetings,
David

## File Attachments

1) pt_reco_tpc_200_kaons.jpg, downloaded 1745 times




2) pt_reco_tpc_200_protons.jpg, downloaded 1689 times


reconstructed pt with Lhe; MVD+TPC+GEM; protons@0.2GeV/c pt;ϕ=[0:360]°;θ=60°; GEANT3; simulation
pions, Genfit
Entries: 311
Mean: 3.63e-01 ± 1.2e-02
RMS: 1.73e-01 ± 8.7e-03
pions, Helix prefit
Entries: 1507
Mean: 1.76e-01 ± 3.0e-03
RMS: 1.15e-01 ± 2.1e-03
#
p_t [GeV/c]