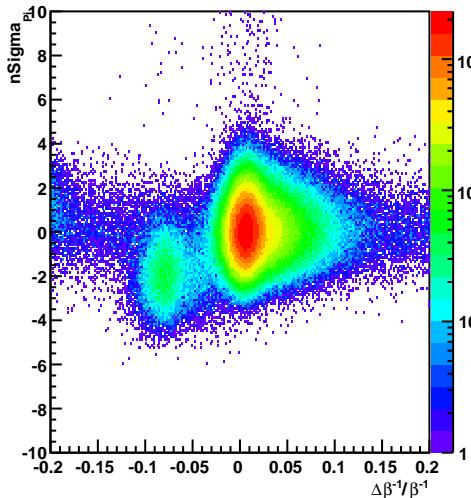
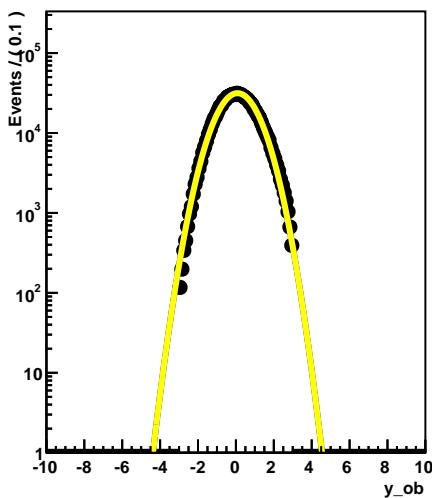


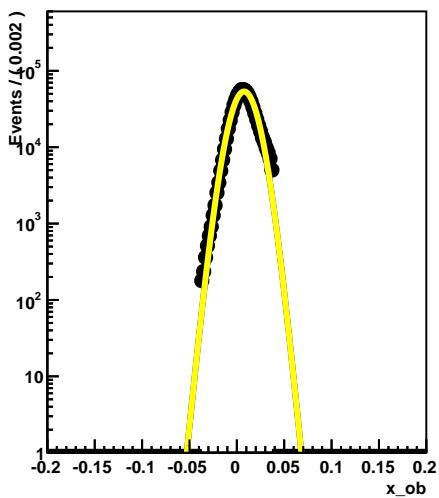
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.10-0.20] | $\eta$ | [0.0-0.2]



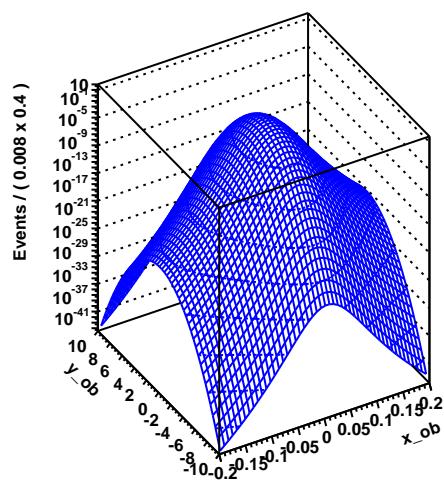
Pi nSigmaDEdx p[0.10-0.20]



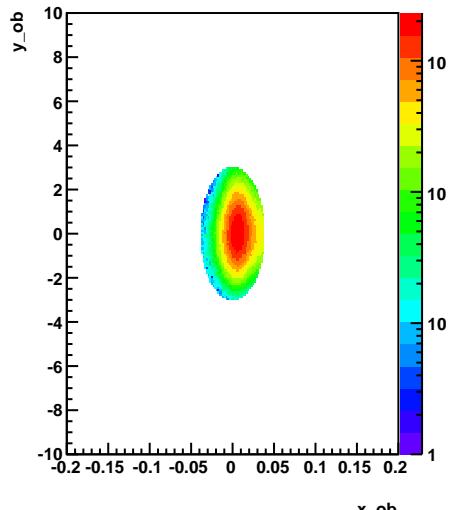
Pi dlnvBeta p[0.10-0.20]



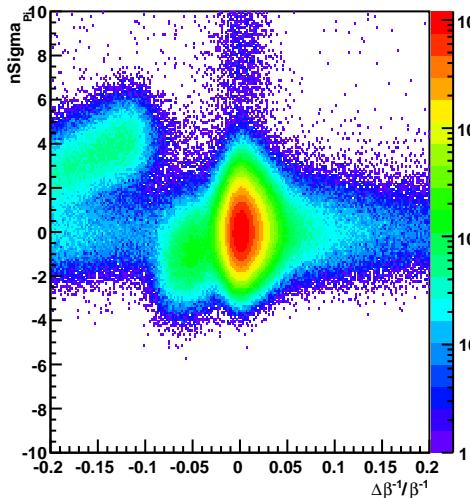
Histogram of hh\_sig\_x\_ob\_y\_ob



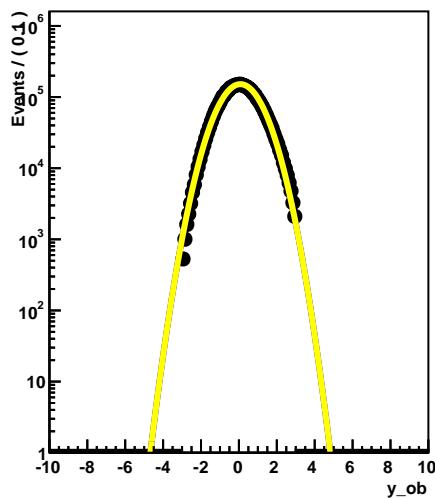
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



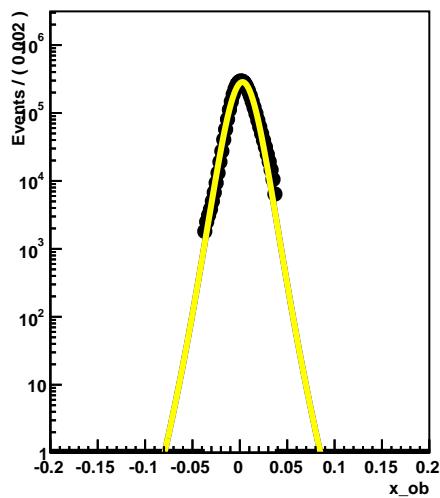
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] |η| [0.0-0.2]



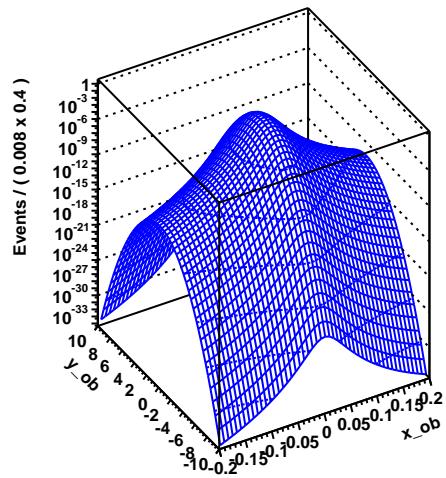
Pi nSigmaDEdx p[0.20-0.30]



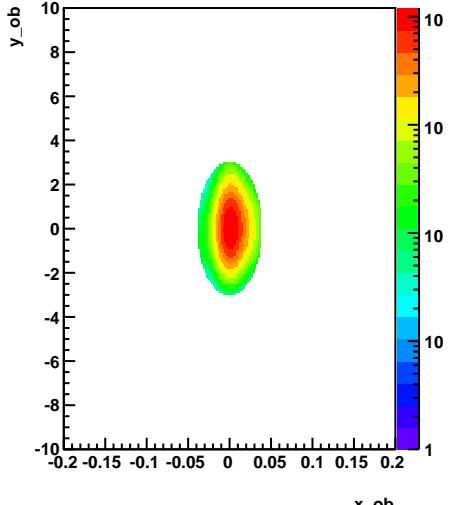
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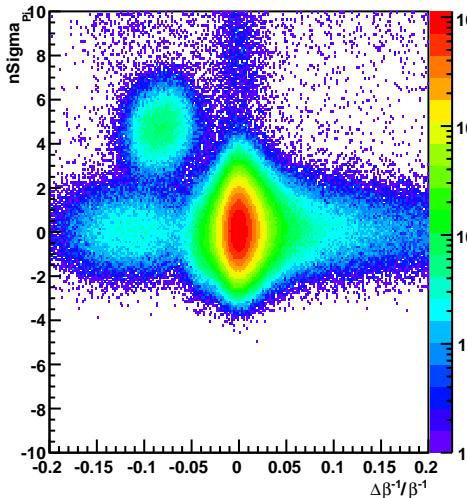
Histogram of hh\_sig\_x\_ob\_y\_ob



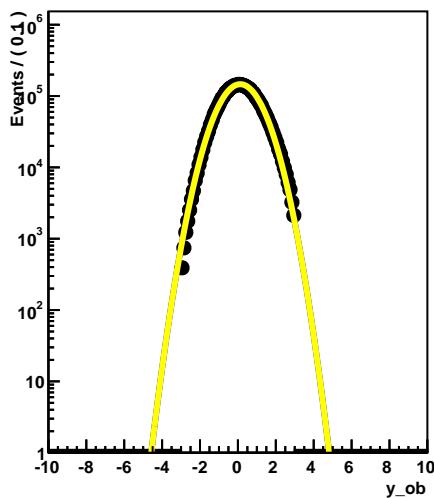
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



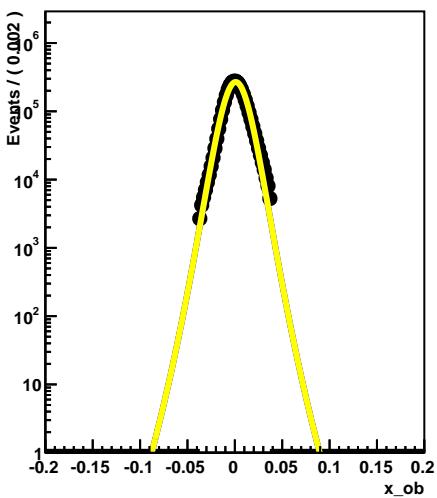
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] |η| [0.0-0.2]



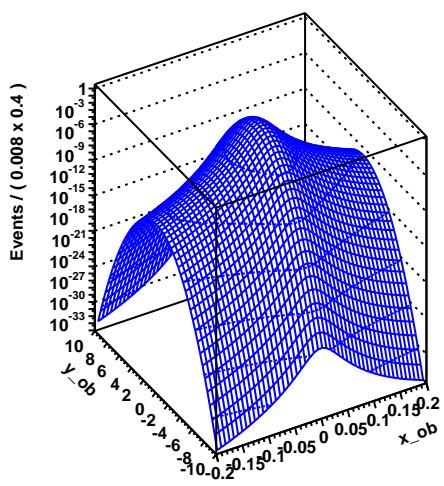
Pi nSigmaDEdx p[0.30-0.40]



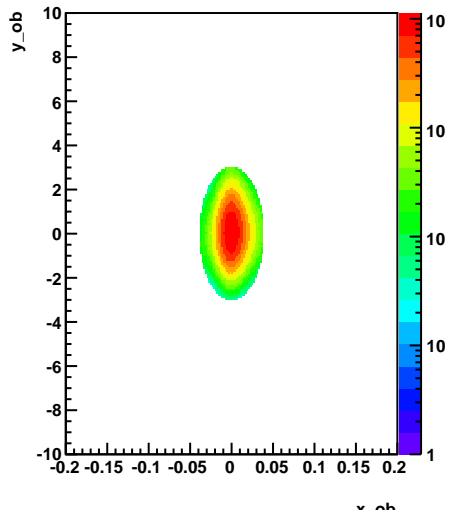
Pi dInvBeta p[0.30-0.40]



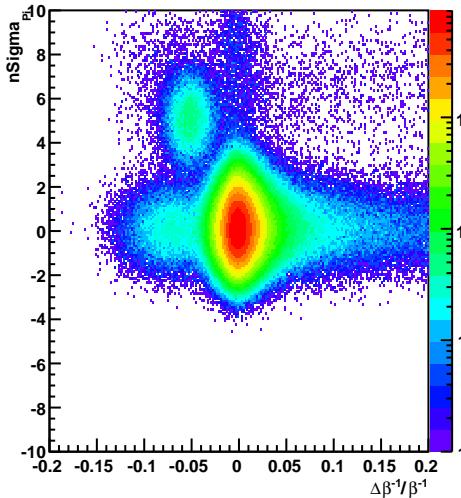
Histogram of hh\_sig\_x\_ob\_y\_ob



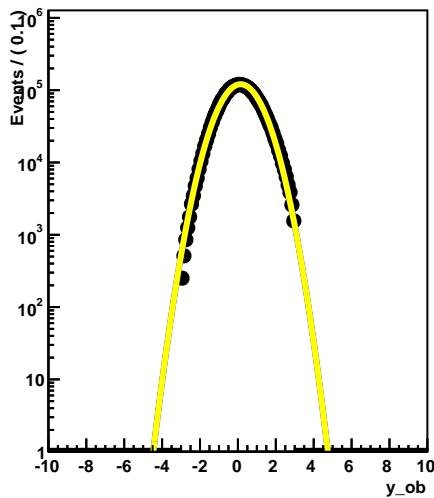
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



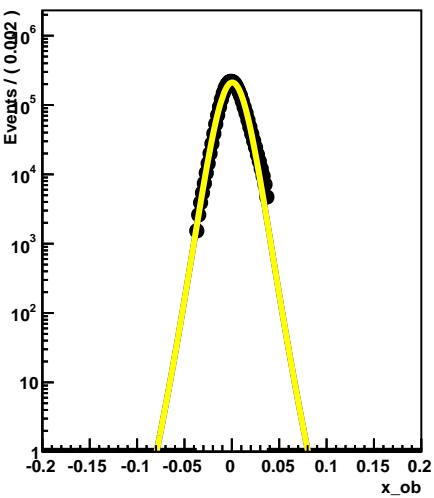
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.0-0.2]



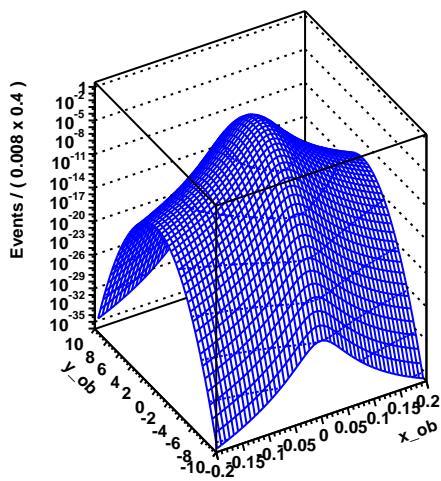
Pi nSigmaDEdx p[0.40-0.50]



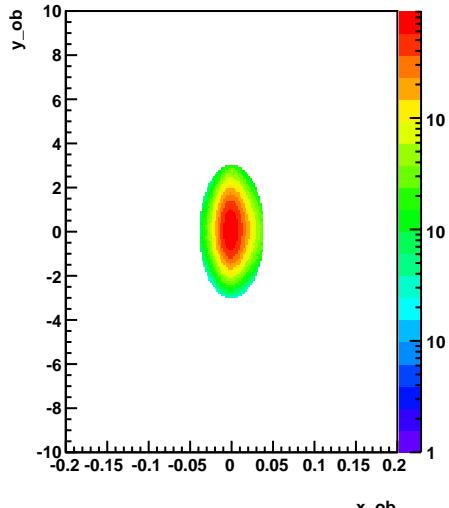
Pi dInvBeta p[0.40-0.50]



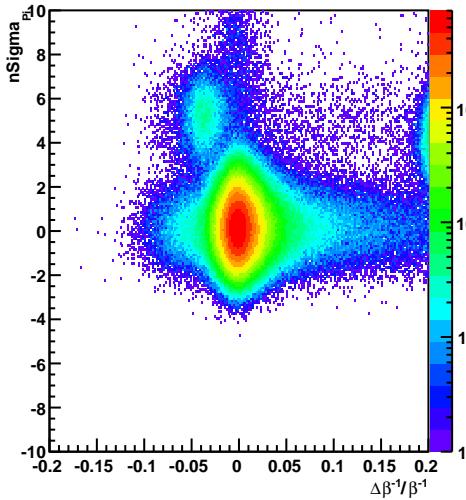
Histogram of hh\_sig\_x\_ob\_y\_ob



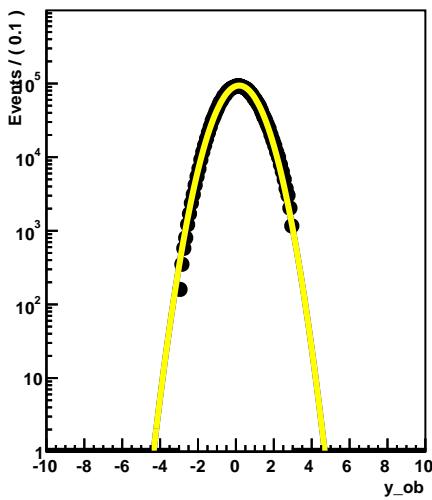
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



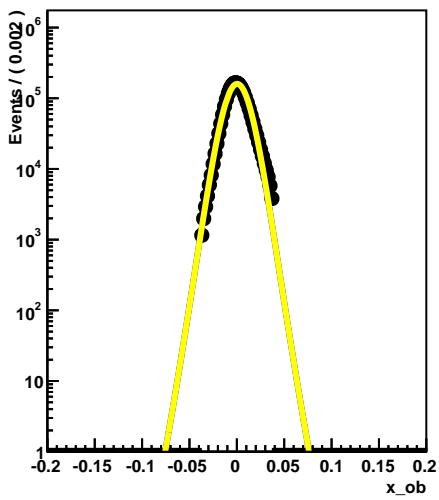
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.0-0.2]



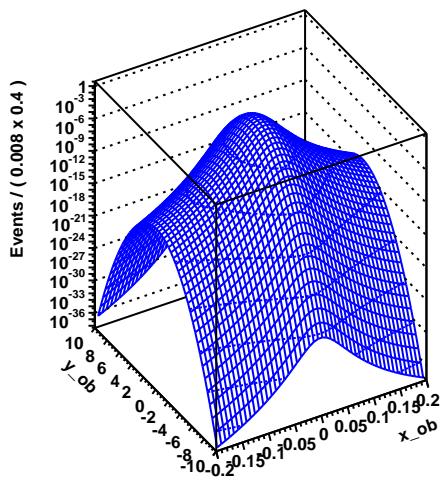
Pi nSigmaDEdx p[0.50-0.60]



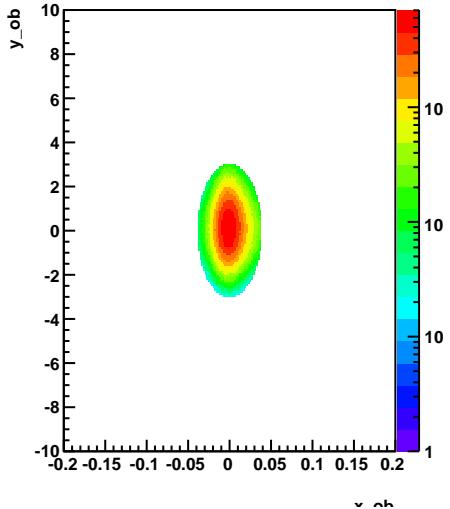
Pi dlnvBeta p[0.50-0.60]



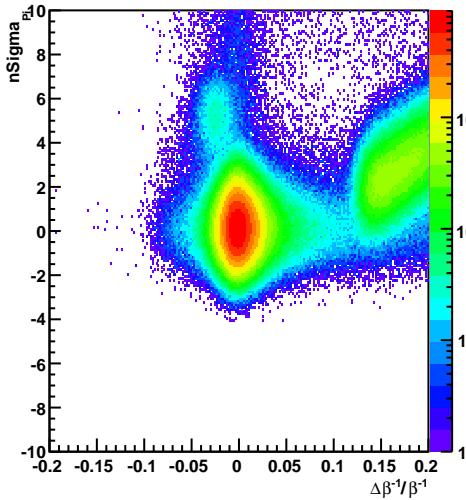
Histogram of hh\_sig\_x\_ob\_y\_ob



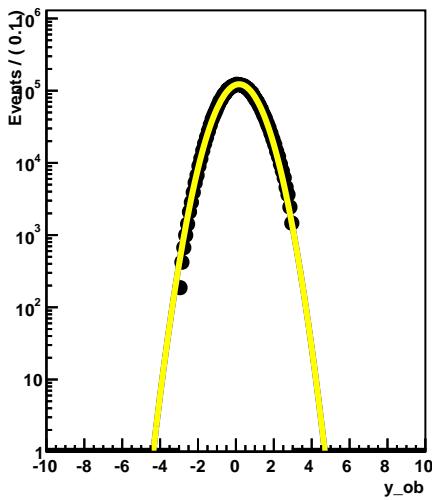
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



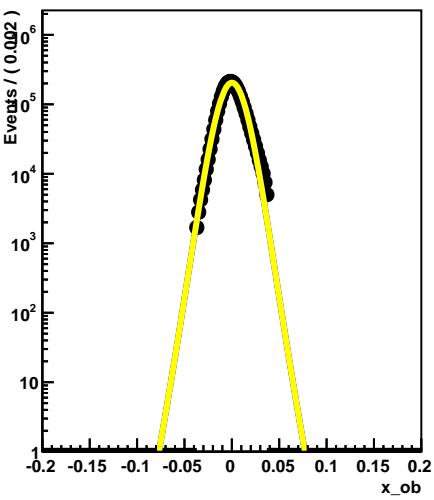
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.0-0.2]



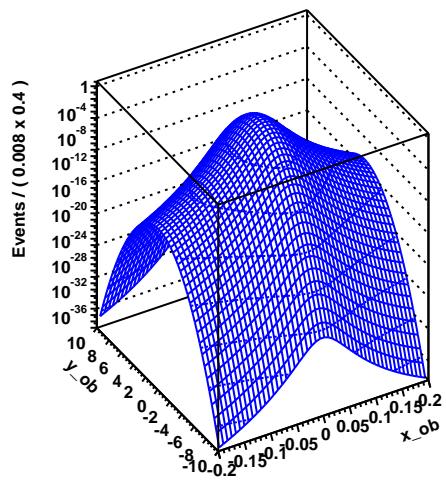
Pi nSigmaDEdx p[0.60-0.80]



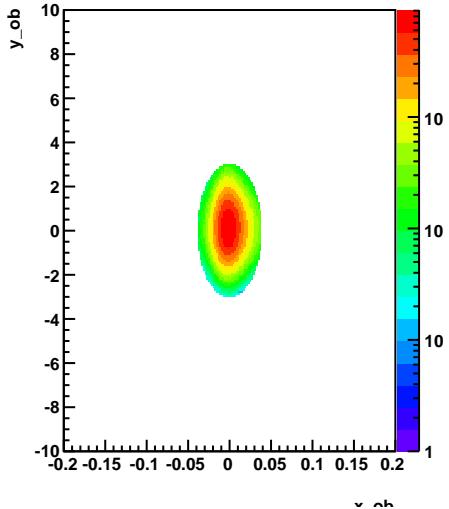
Pi dInvBeta p[0.60-0.80]



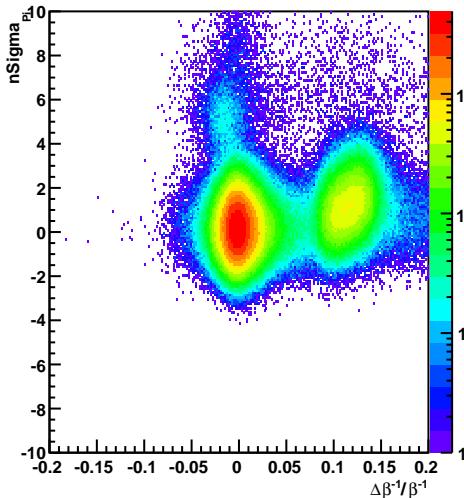
Histogram of hh\_sig\_x\_ob\_y\_ob



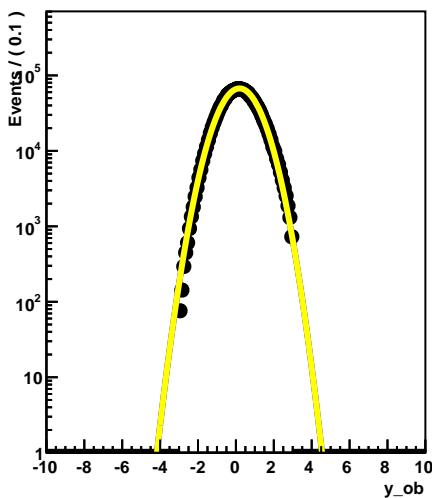
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



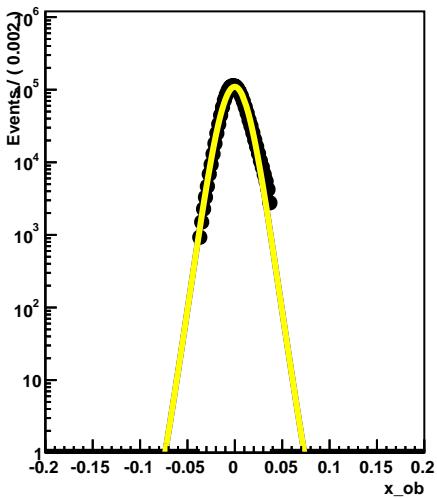
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] |η| [0.0-0.2]



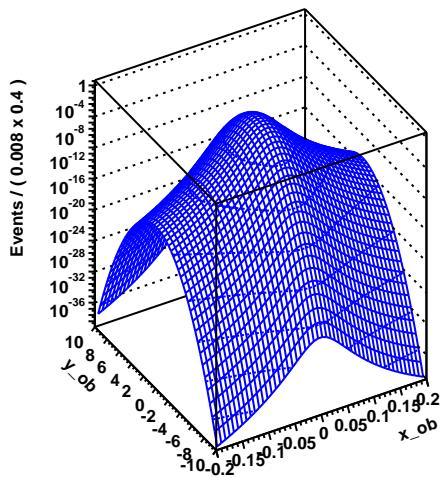
Pi nSigmaDEdx p[0.80-1.00]



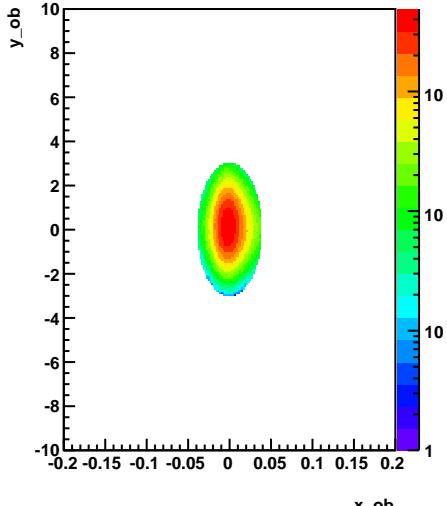
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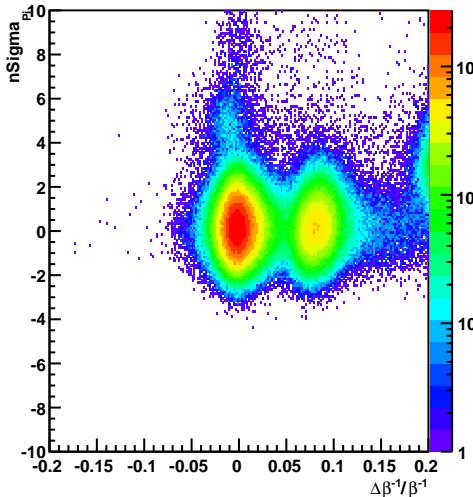
Histogram of hh\_sig\_x\_ob\_y\_ob



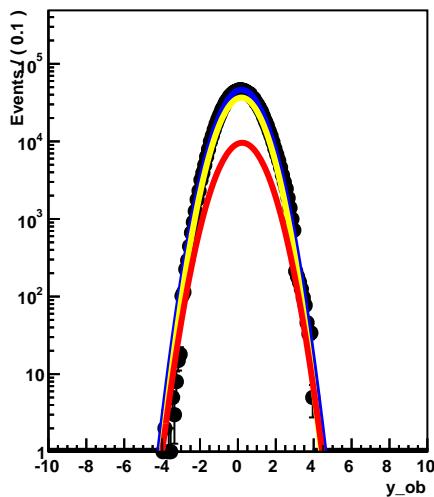
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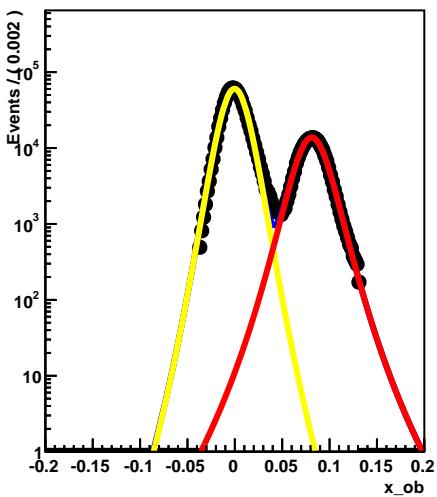
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20]  $|\eta|$  [0.0-0.2]



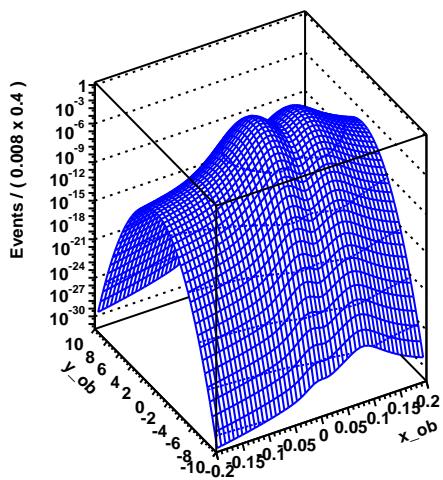
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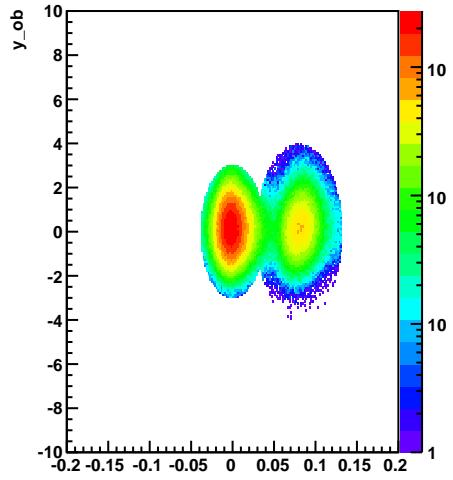
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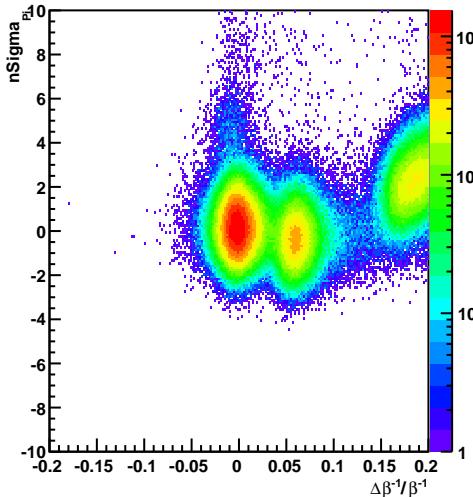
Histogram of hh\_sig\_x\_ob\_y\_ob



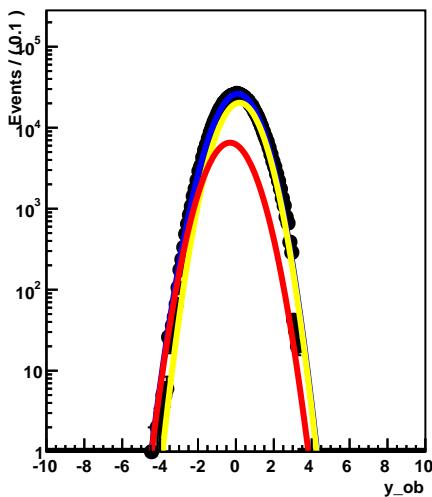
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



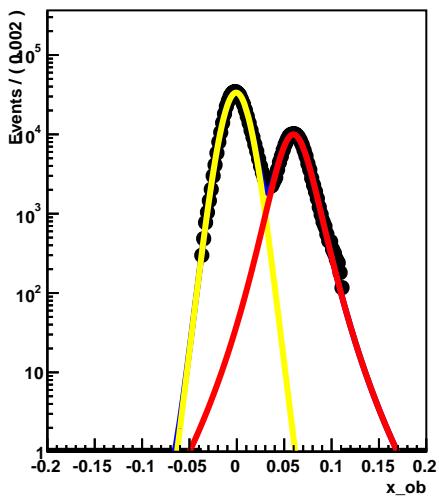
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] |η| [0.0-0.2]



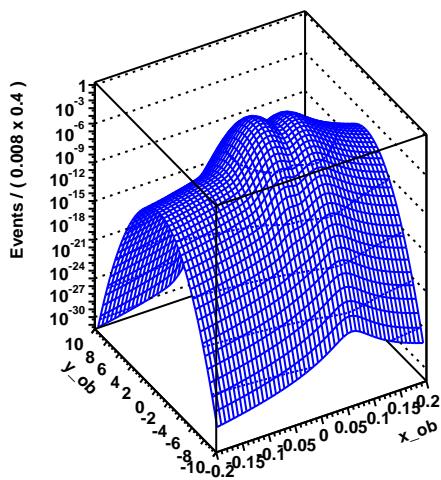
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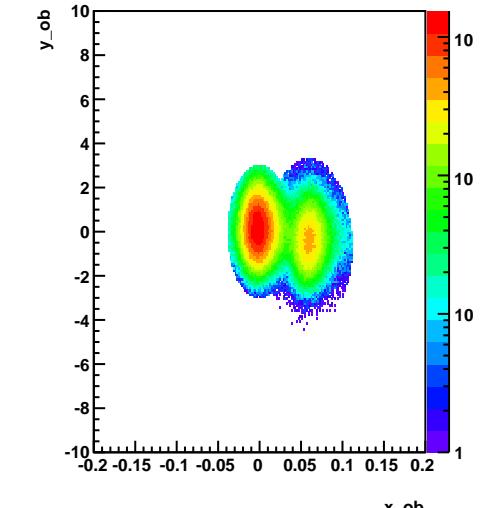
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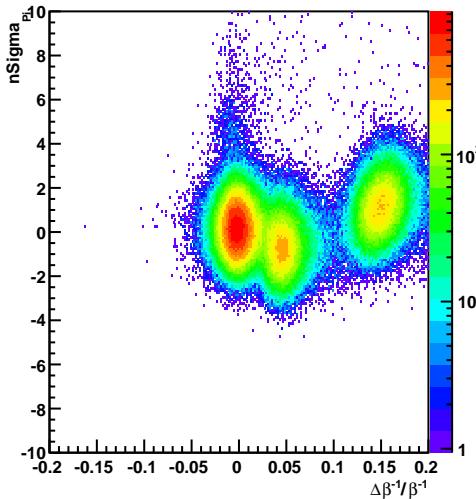
Histogram of hh\_sig\_x\_ob\_y\_ob



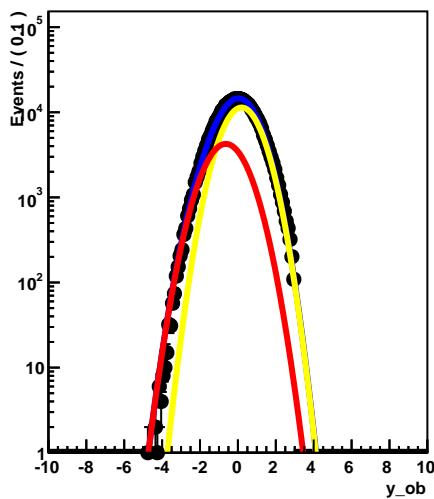
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



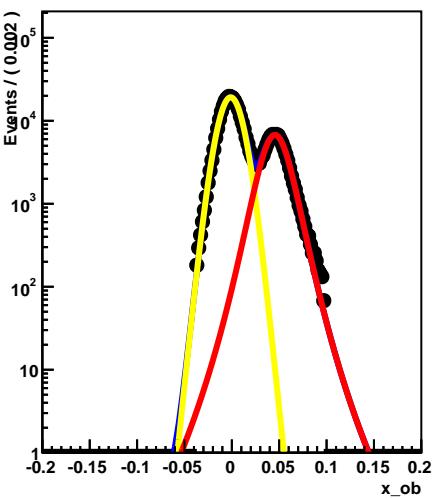
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] | $\eta$ | [0.0-0.2]



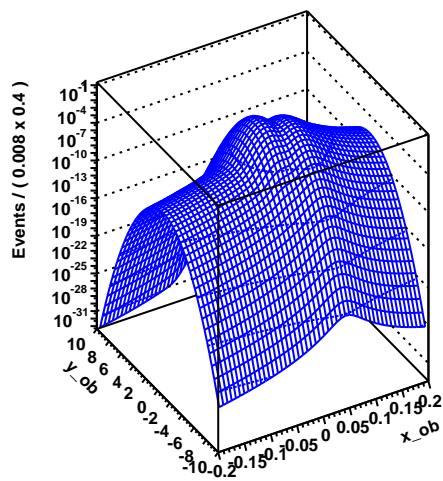
Pi nSigmaDEdx p[1.40-1.60]



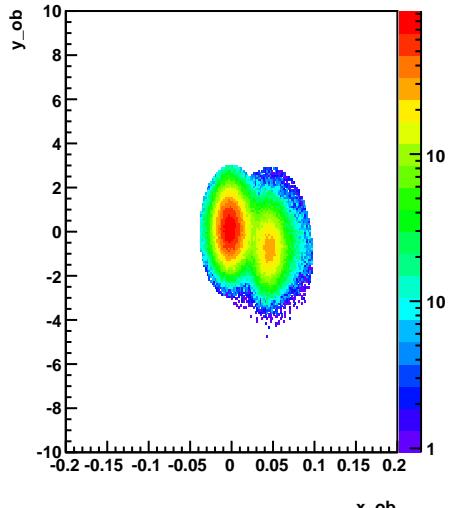
Pi dlnvBeta p[1.40-1.60]



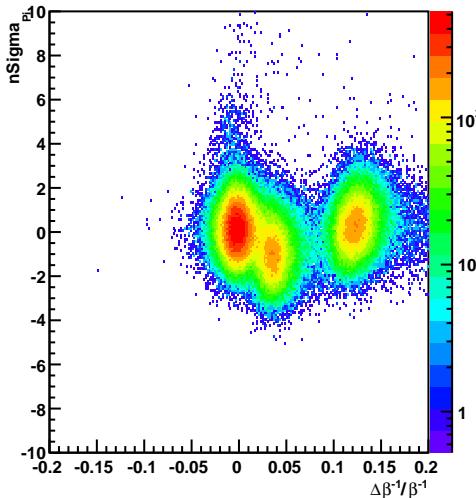
Histogram of hh\_sig\_x\_ob\_y\_ob



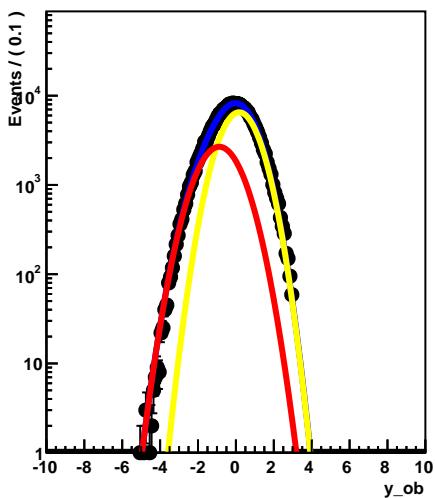
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



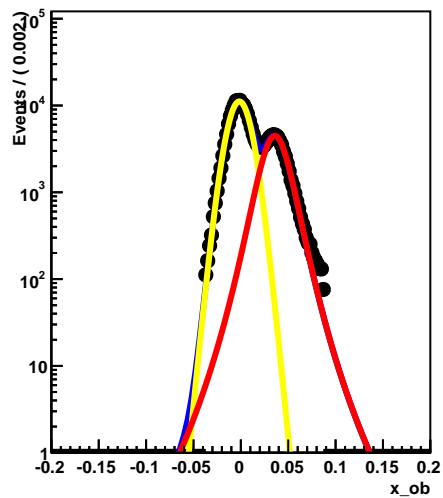
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80]  $|\eta|$  [0.0-0.2]



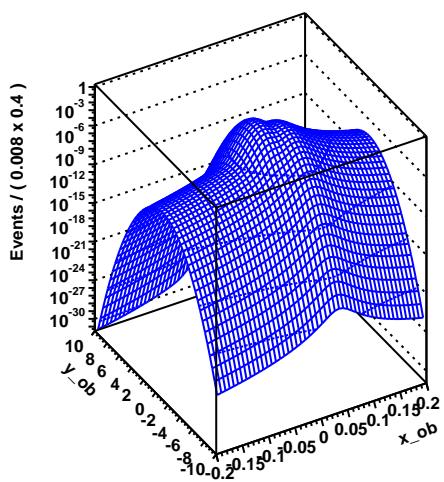
Pi nSigmaDEdx p[1.60-1.80]



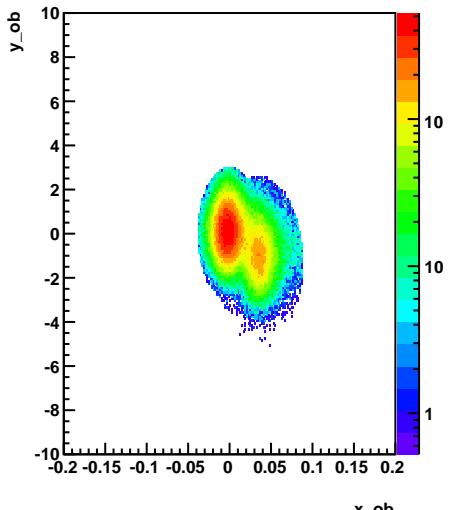
Pi dInvBeta p[1.60-1.80]



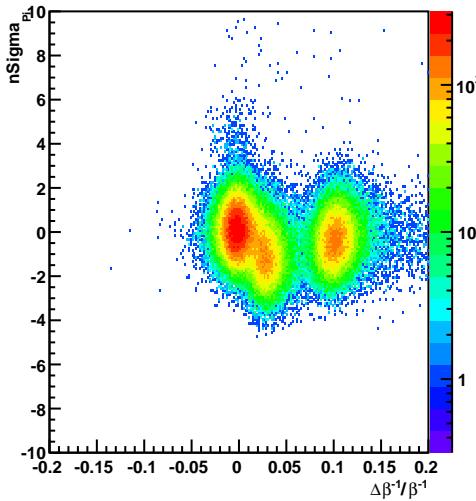
Histogram of hh\_sig\_x\_ob\_y\_ob



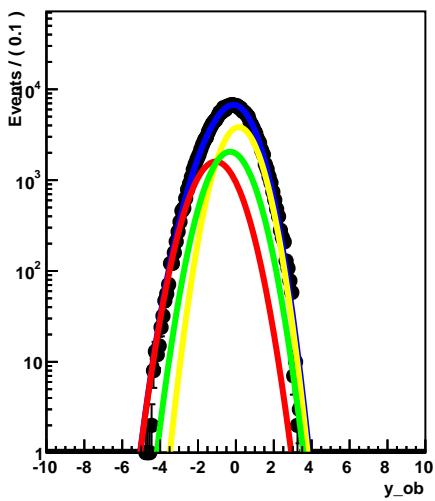
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



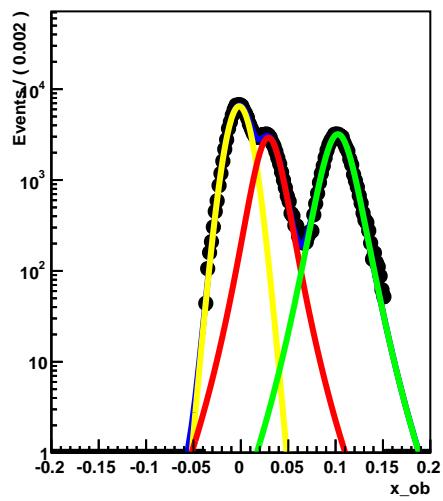
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.80-2.00] | $\eta$ | [0.0-0.2]



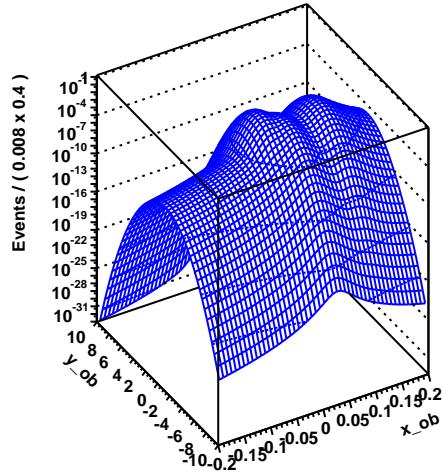
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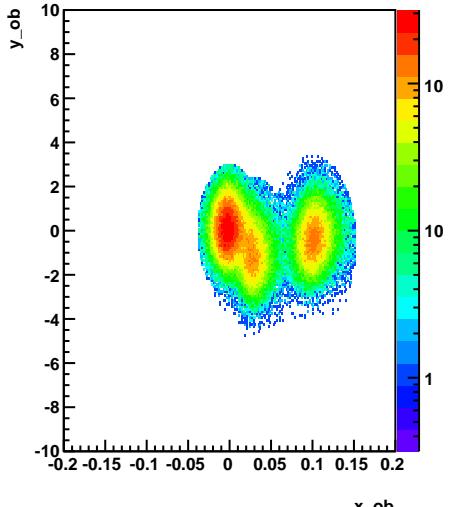
Pi dlnvBeta p[1.80-2.00]



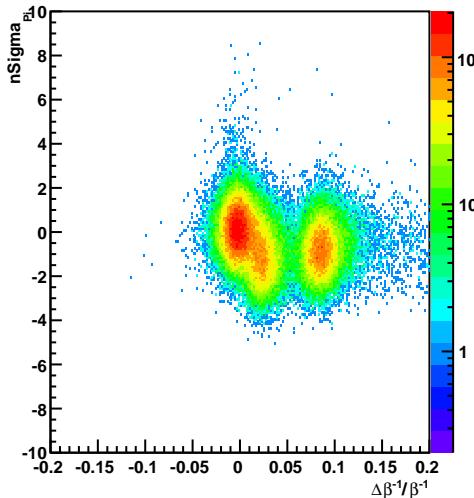
Histogram of hh\_sig\_x\_ob\_y\_ob



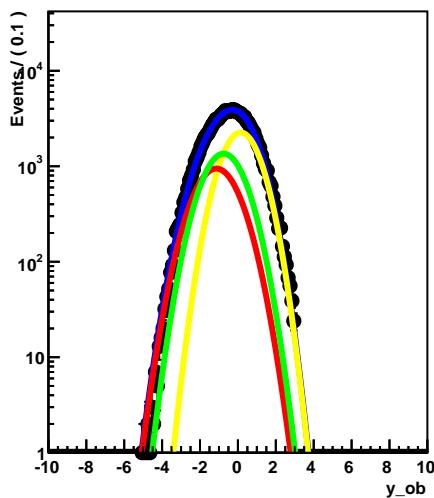
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



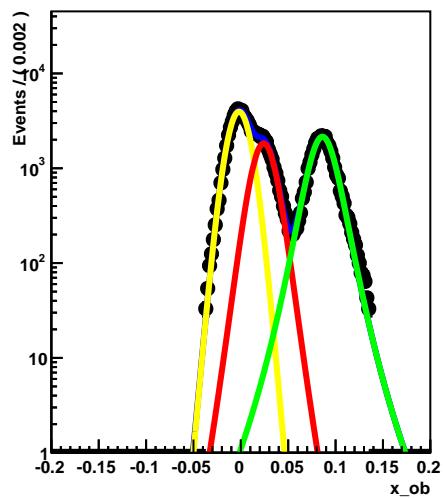
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.00-2.20] | $\eta$ | [0.0-0.2]



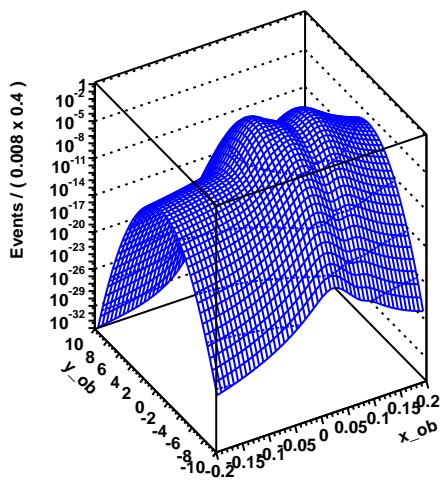
Pi nSigmaDEdx p[2.00-2.20]



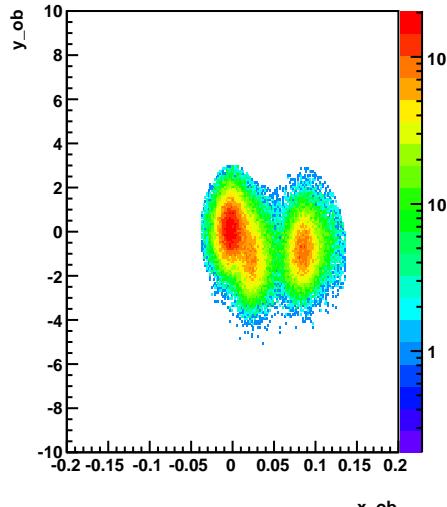
Pi dInvBeta p[2.00-2.20]



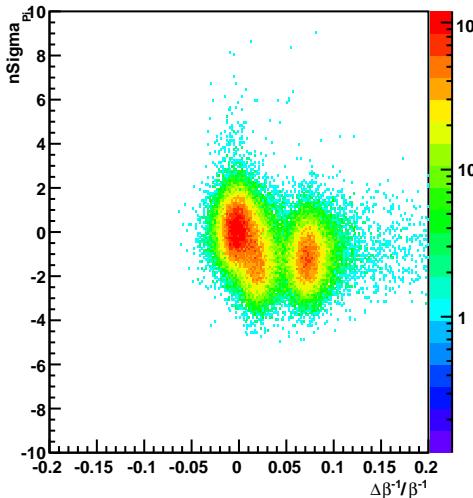
Histogram of hh\_sig\_x\_ob\_y\_ob



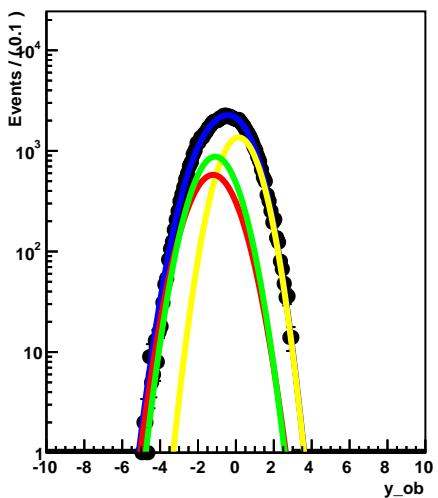
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



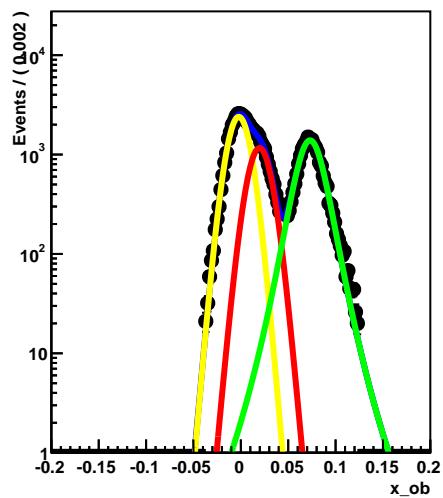
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.20-2.40]  $|\eta|$  [0.0-0.2]



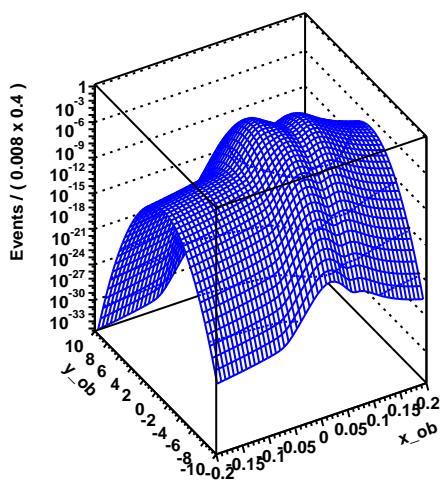
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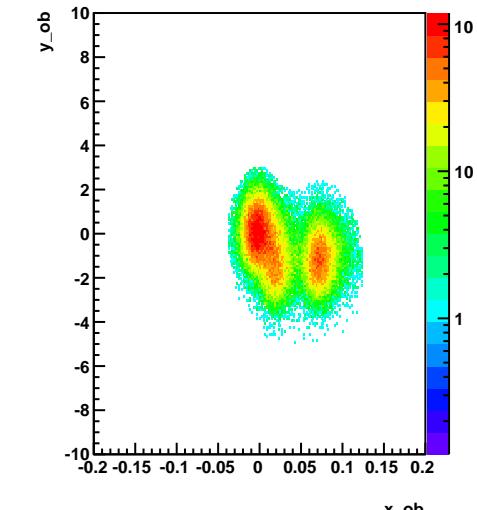
Pi dlnvBeta p[2.20-2.40]



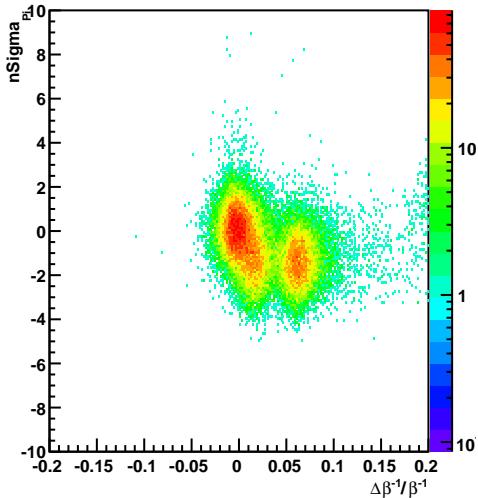
Histogram of hh\_sig\_x\_ob\_y\_ob



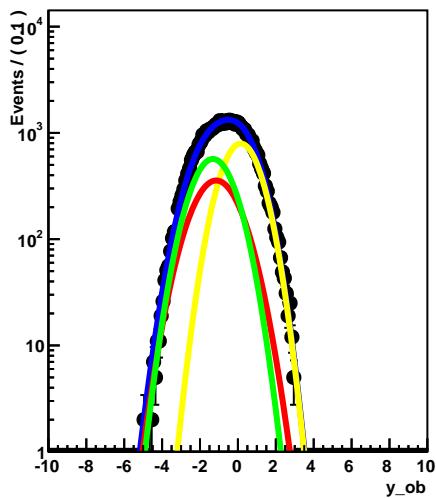
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



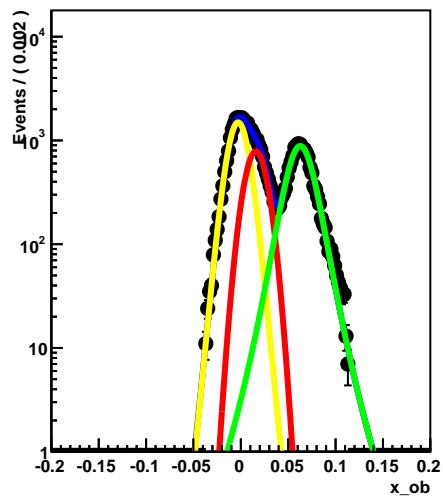
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.40-2.60] | $\eta$ | [0.0-0.2]



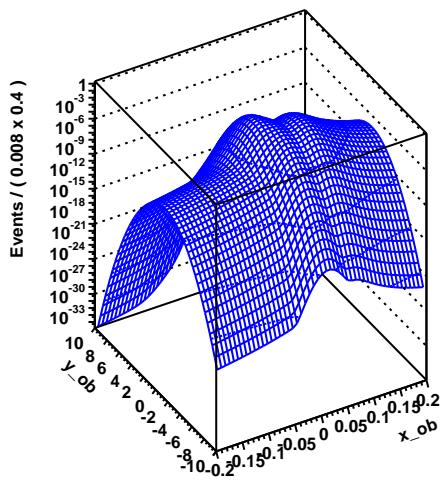
Pi nSigmaDEdx p[2.40-2.60]



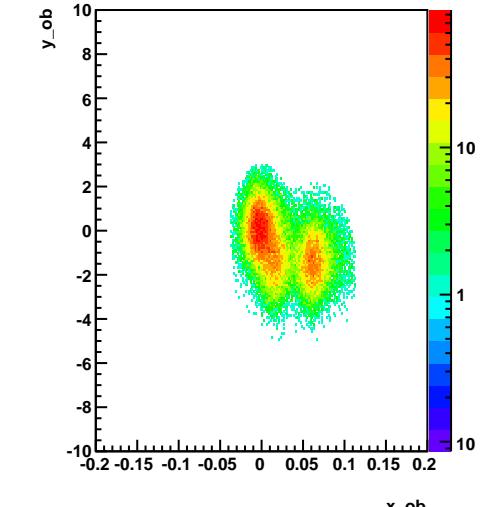
Pi dInvBeta p[2.40-2.60]



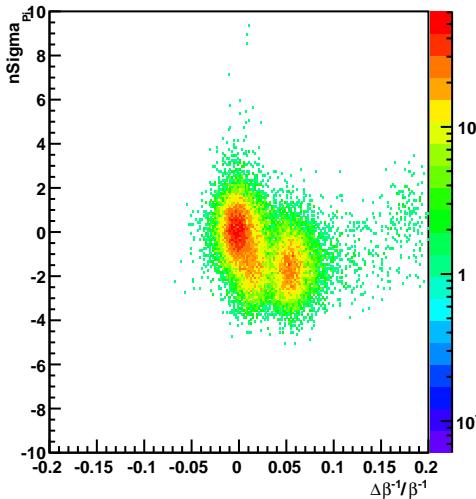
Histogram of hh\_sig\_x\_ob\_y\_ob



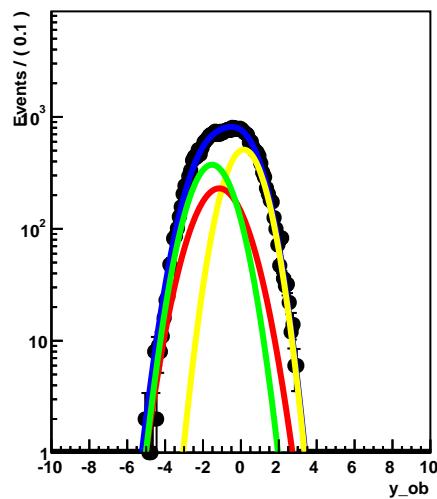
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



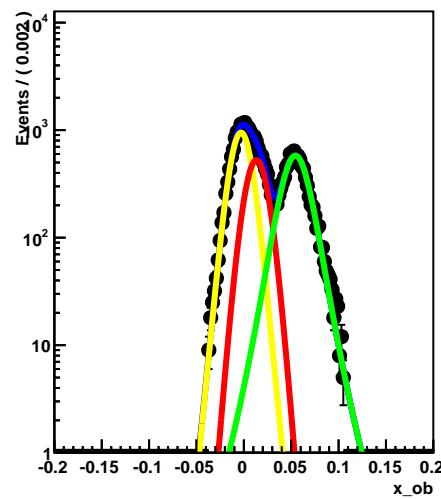
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.60-2.80] | $\eta$ | [0.0-0.2]



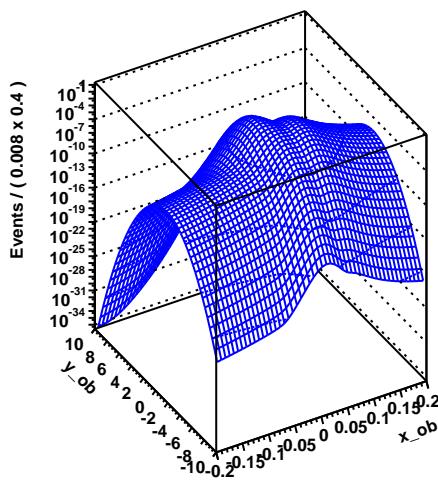
Pi nSigmaDEdx p[2.60-2.80]



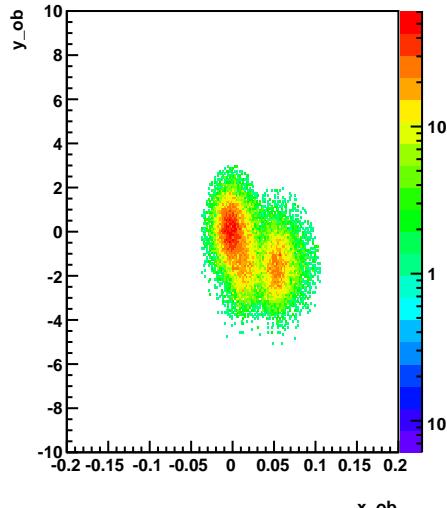
Pi dlnvBeta p[2.60-2.80]



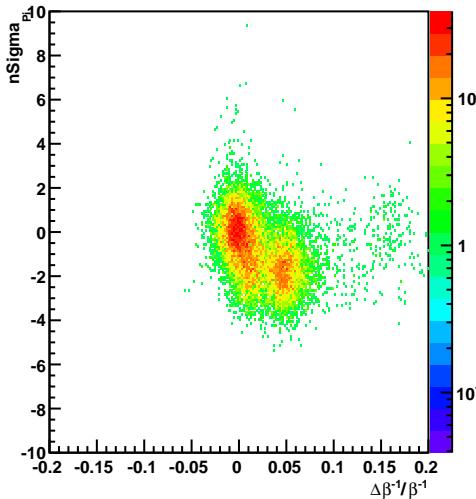
Histogram of hh\_sig\_x\_ob\_y\_ob



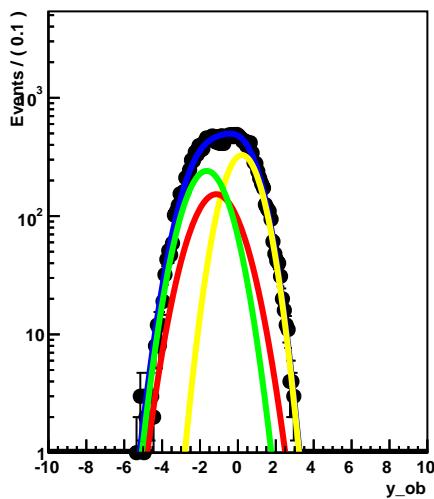
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



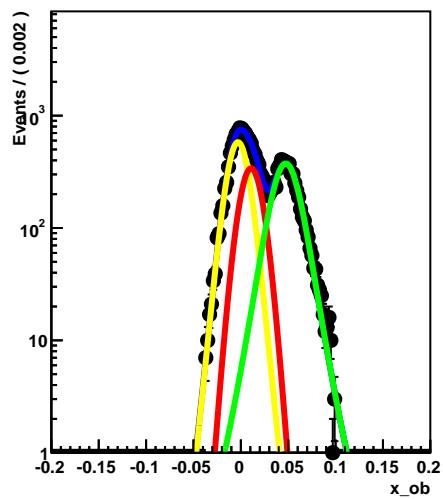
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.80-3.00] | $\eta$ | [0.0-0.2]



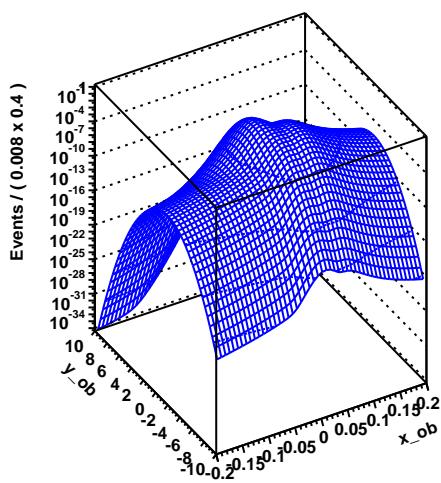
Pi nSigmaDEdx p[2.80-3.00]



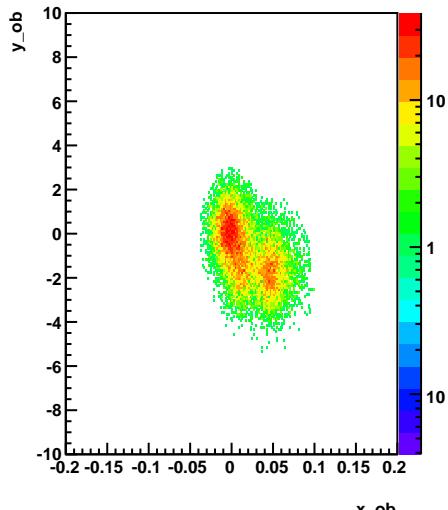
Pi dlnvBeta p[2.80-3.00]



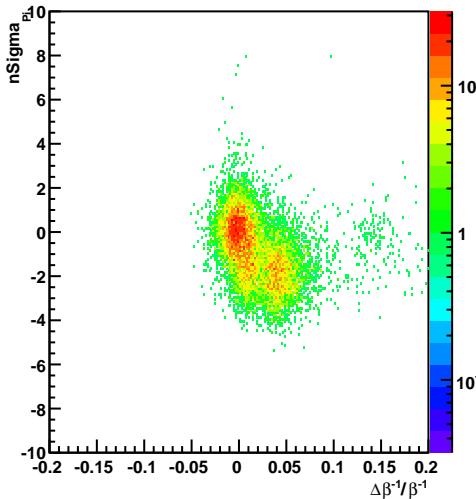
Histogram of hh\_sig\_x\_ob\_y\_ob



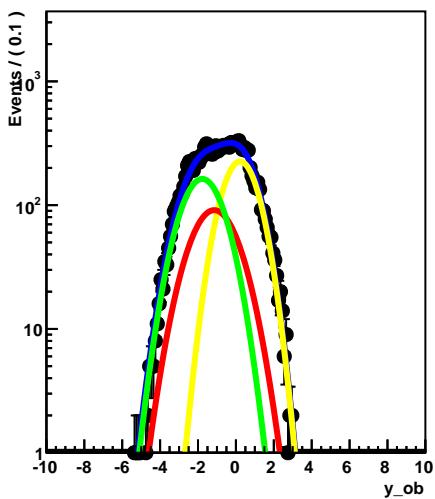
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



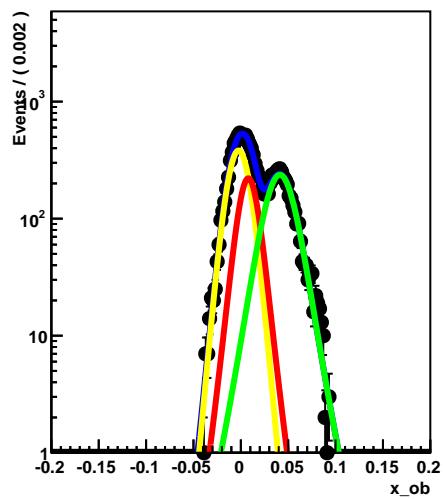
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.00-3.20] | $\eta$ | [0.0-0.2]



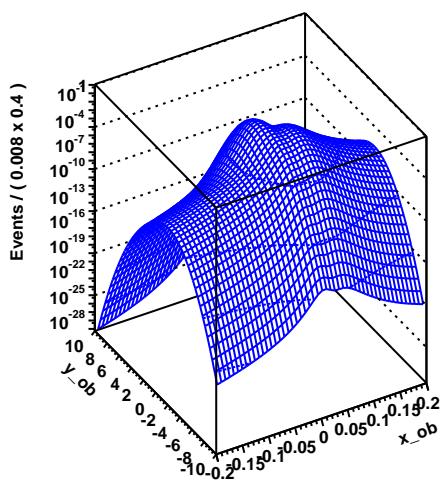
Pi nSigmaDEdx p[3.00-3.20]



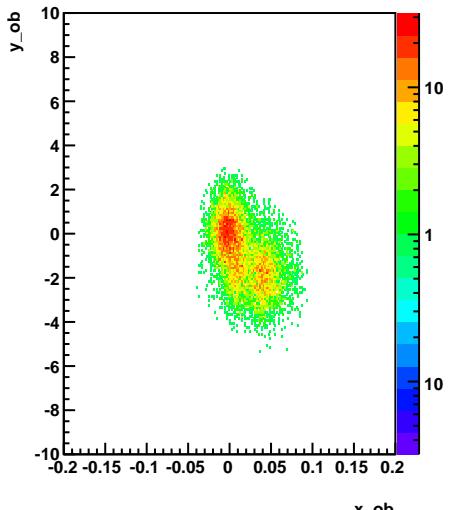
Pi dInvBeta p[3.00-3.20]



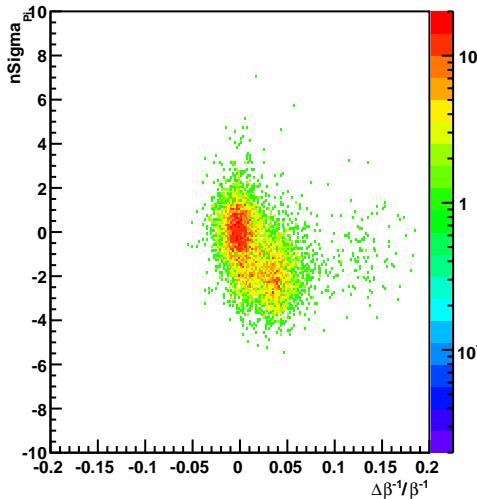
Histogram of hh\_sig\_x\_ob\_y\_ob



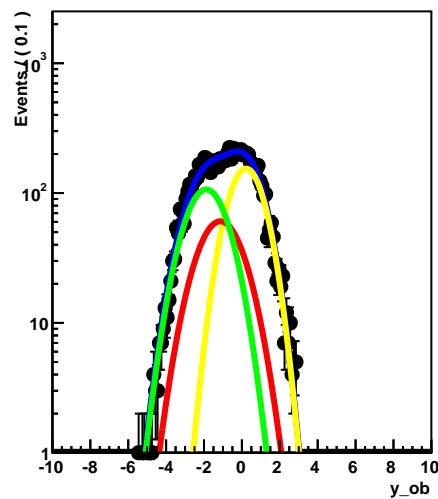
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



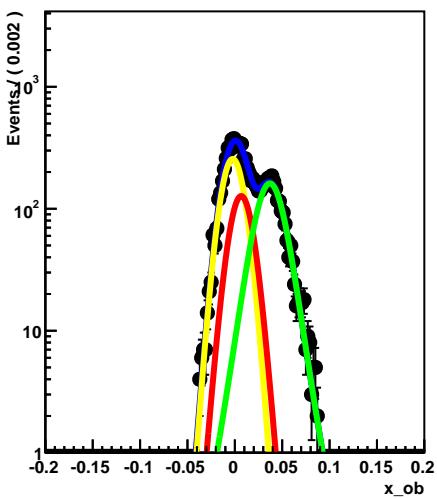
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.20-3.40] | $\eta$ | [0.0-0.2]



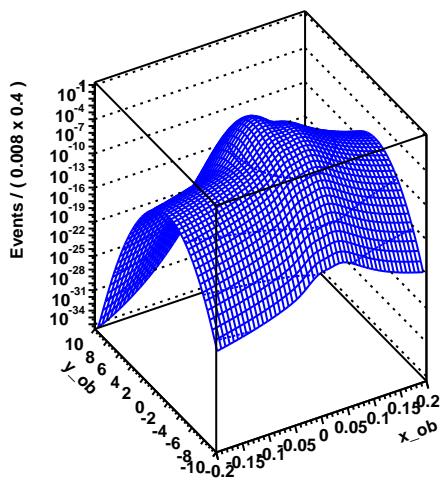
Pi nSigmaDEdx p[3.20-3.40]



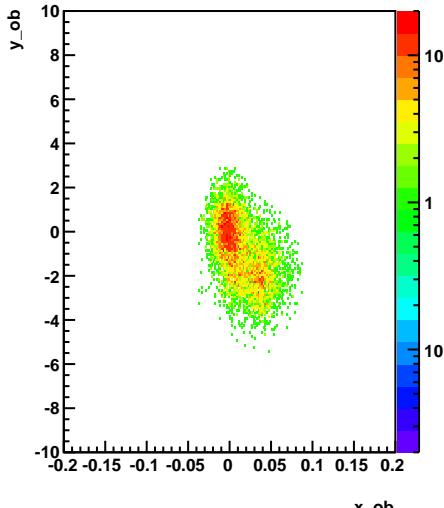
Pi dlnvBeta p[3.20-3.40]



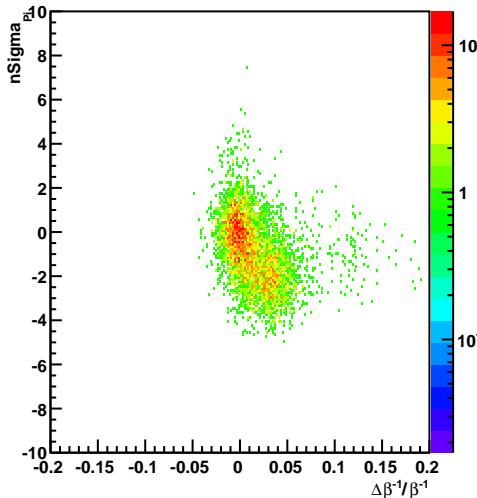
Histogram of hh\_sig\_x\_ob\_y\_ob



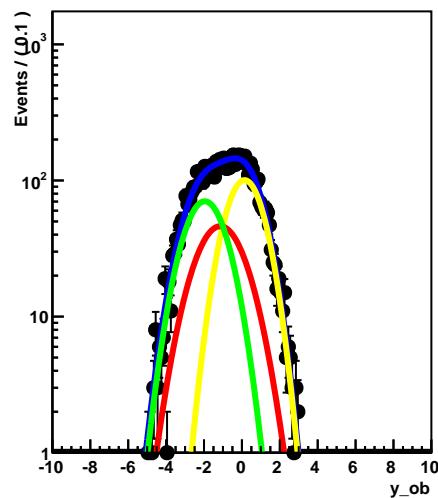
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



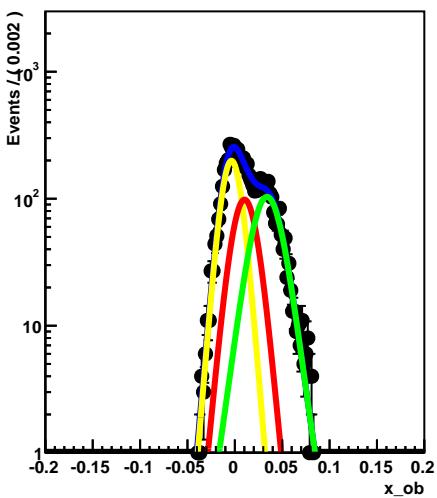
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.40-3.60] | $\eta$ | [0.0-0.2]



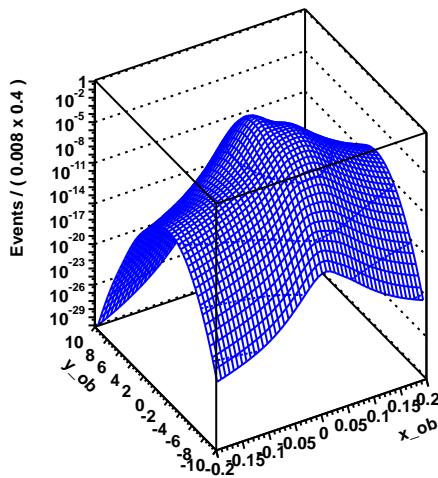
Pi nSigmaDEdx p[3.40-3.60]



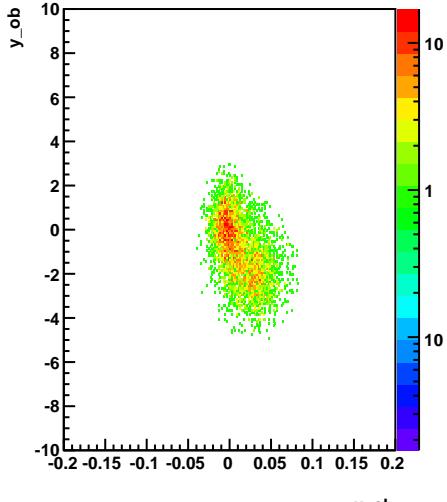
Pi dlnvBeta p[3.40-3.60]



Histogram of hh\_sig\_x\_ob\_y\_ob

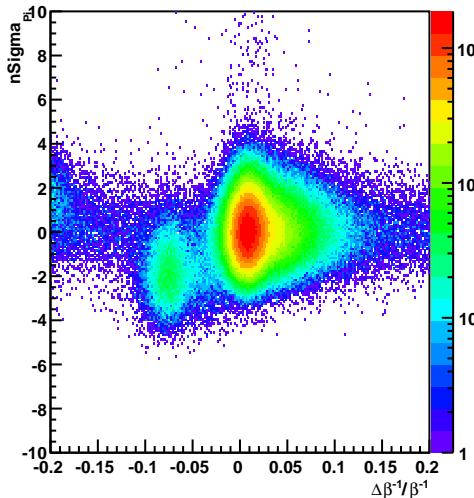


Histogram of hh\_data\_Pi\_x\_ob\_y\_ob

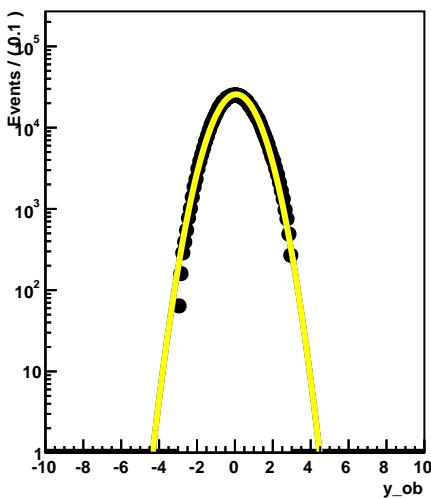




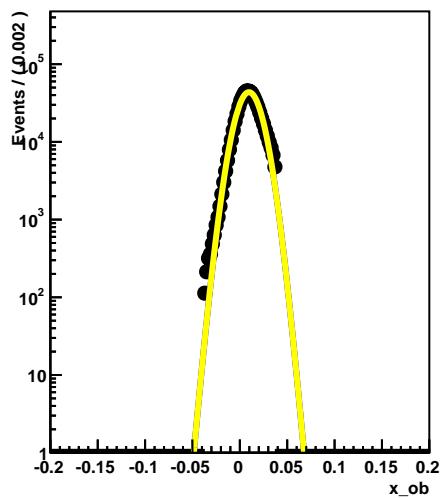
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.10-0.20] |η| [0.2-0.4]



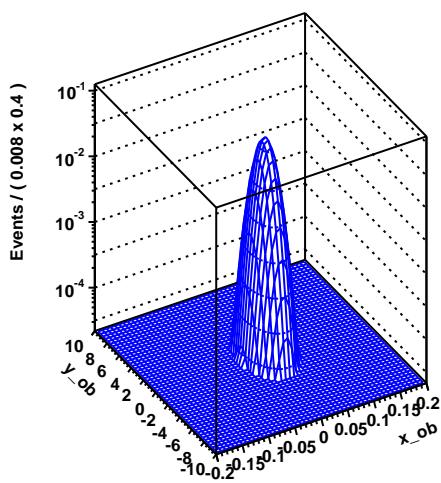
Pi nSigmaDEdx p[0.10-0.20]



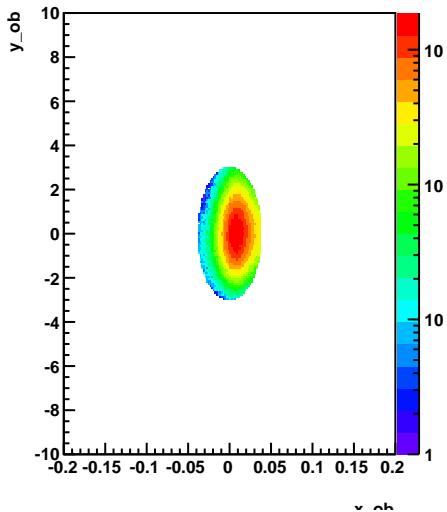
Pi dlnvBeta p[0.10-0.20]



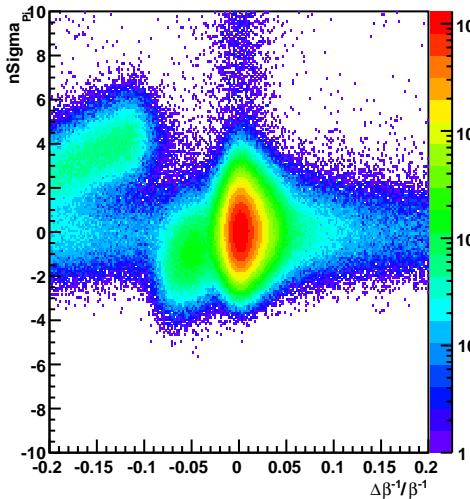
Histogram of hh\_sig\_x\_ob\_y\_ob



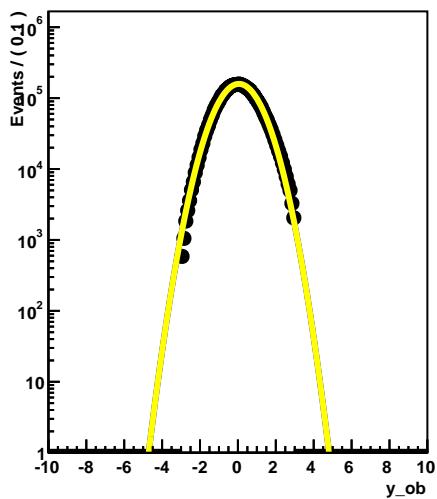
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



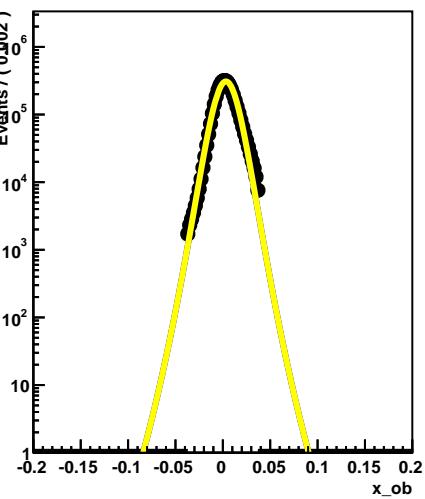
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30]  $|\eta|$  [0.2-0.4]



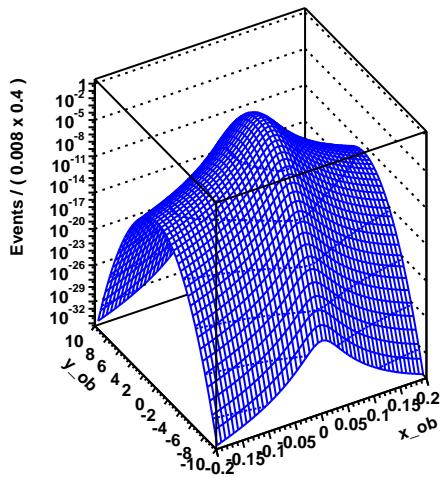
Pi nSigmaDEdx p[0.20-0.30]



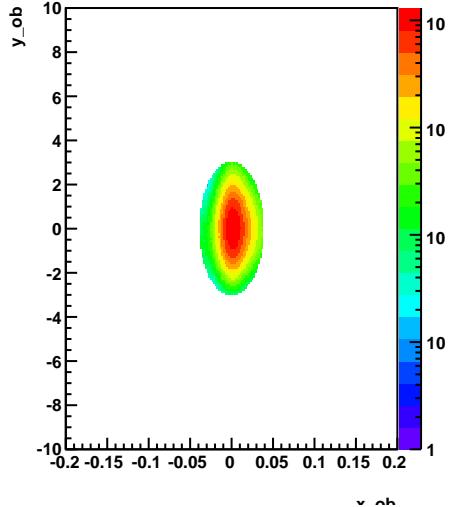
Pi dInvBeta p[0.20-0.30]



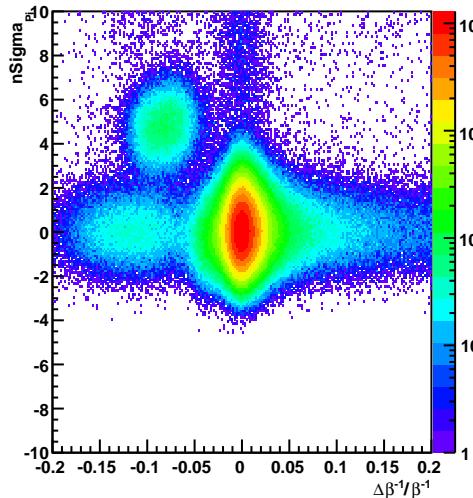
Histogram of hh\_sig\_x\_ob\_y\_ob



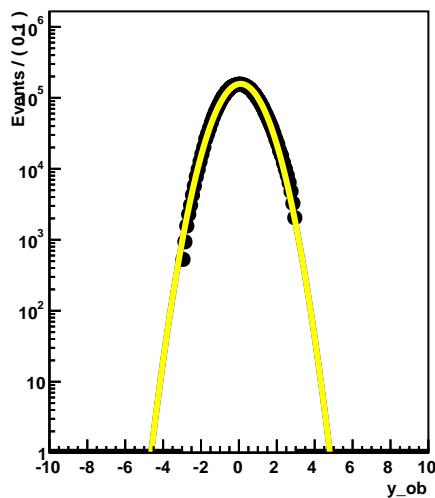
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



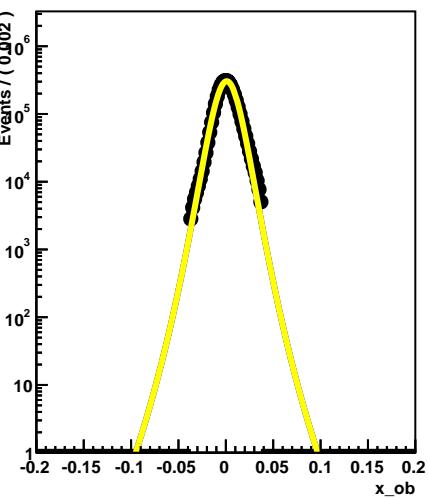
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.2-0.4]



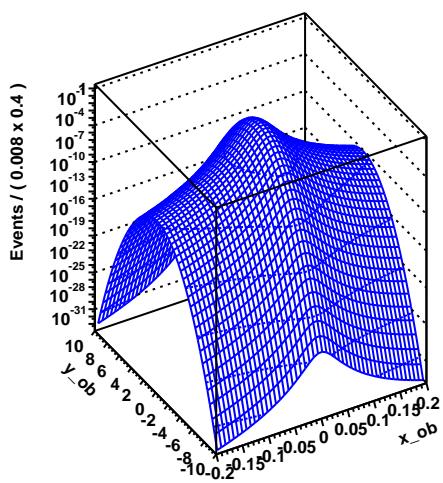
Pi nSigmaDEdx p[0.30-0.40]



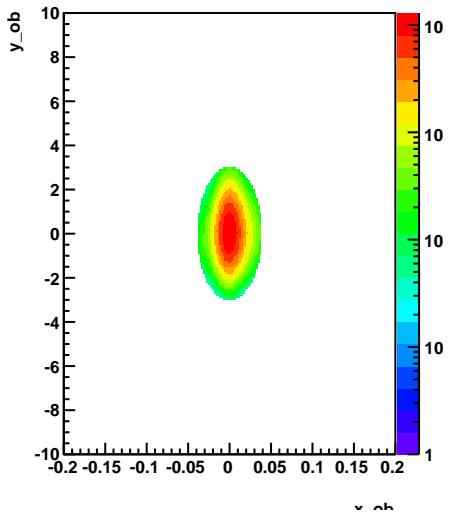
Pi dInvBeta p[0.30-0.40]



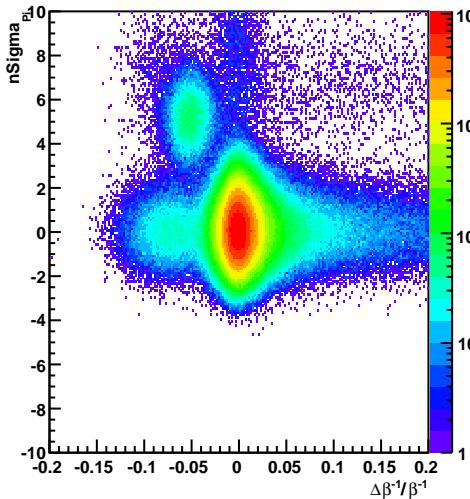
Histogram of hh\_sig\_x\_ob\_y\_ob



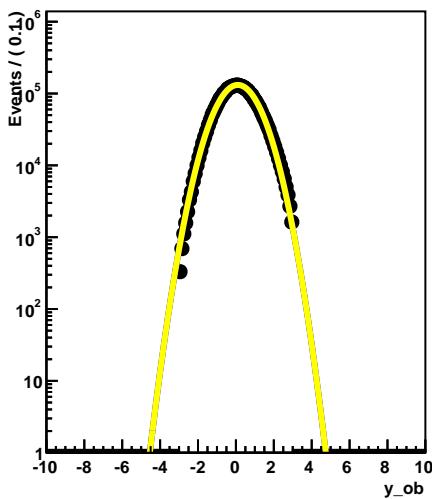
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



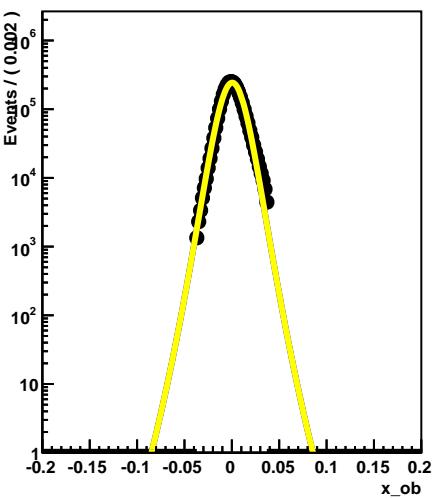
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.2-0.4]



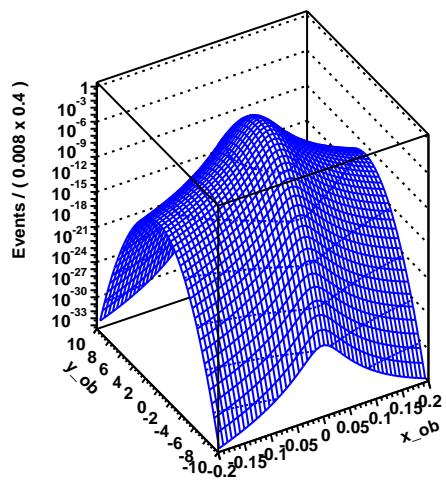
Pi nSigmaDEdx p[0.40-0.50]



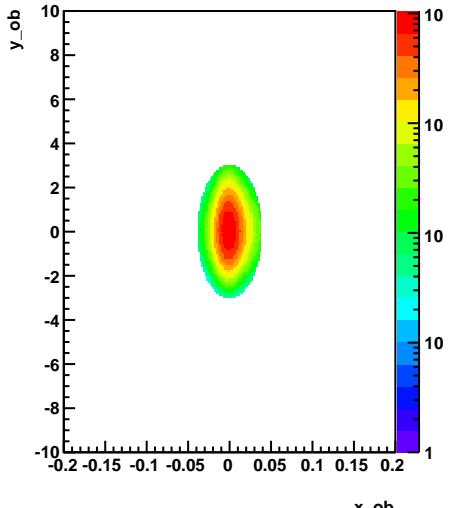
Pi dInvBeta p[0.40-0.50]



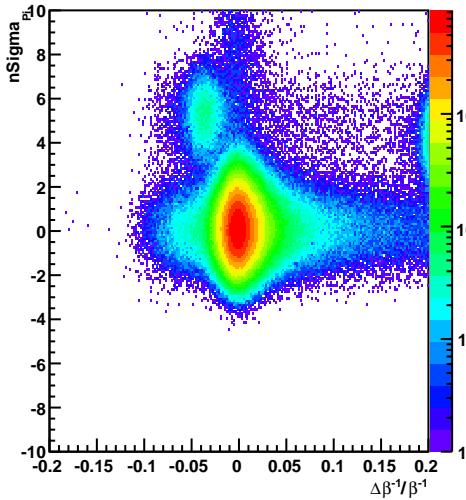
Histogram of hh\_sig\_x\_ob\_y\_ob



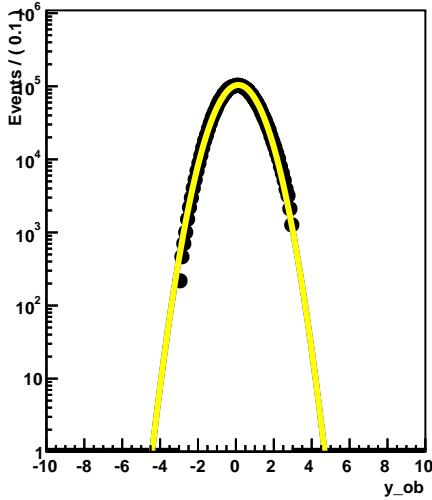
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



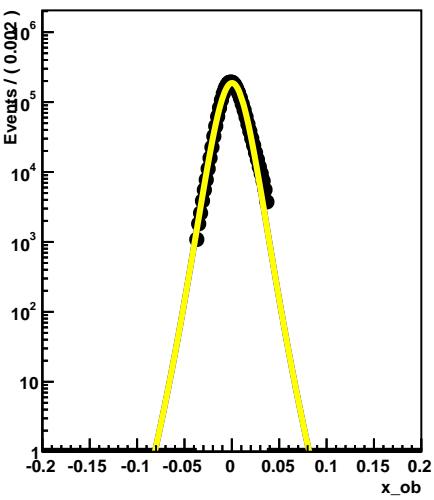
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.2-0.4]



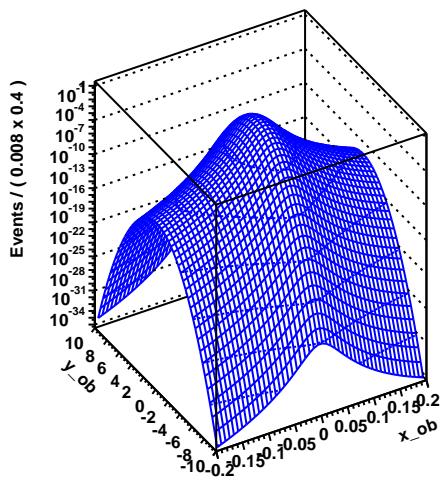
Pi nSigmaDEdx p[0.50-0.60]



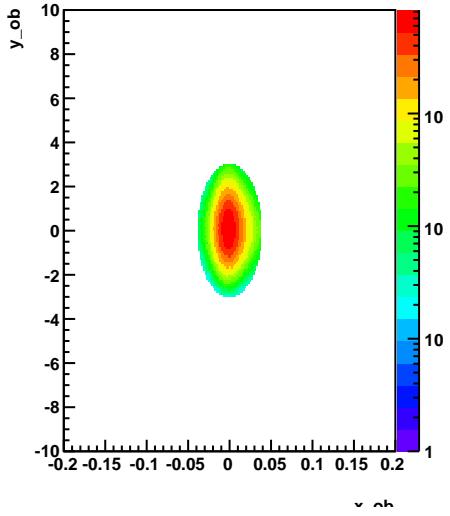
Pi dlnvBeta p[0.50-0.60]



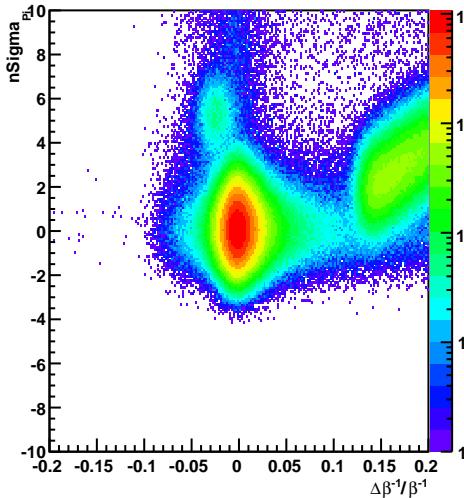
Histogram of hh\_sig\_x\_ob\_y\_ob



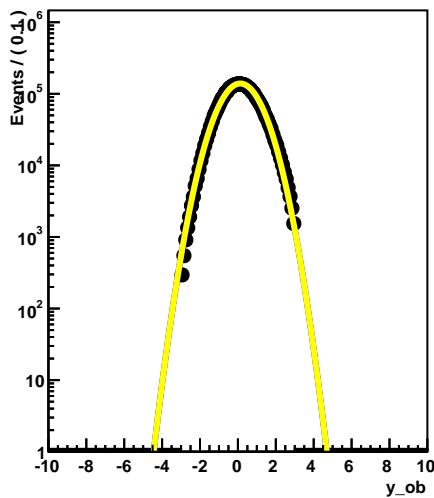
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



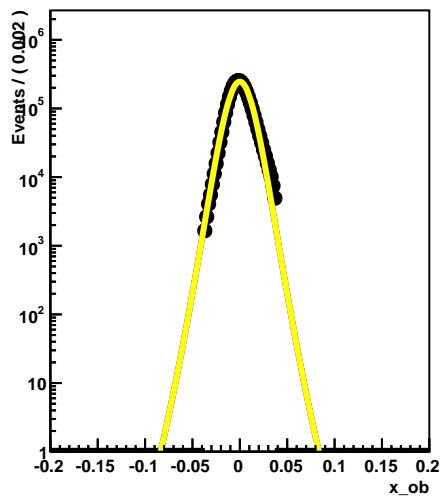
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.2-0.4]



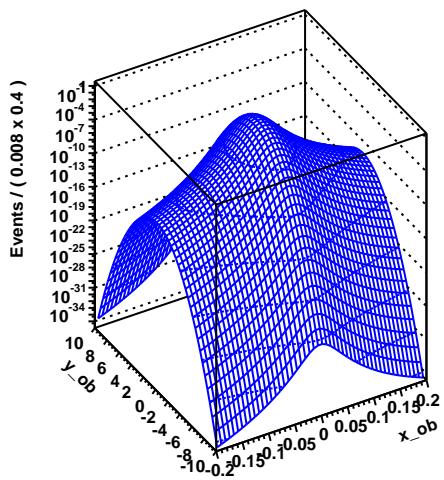
Pi nSigmaDEdx p[0.60-0.80]



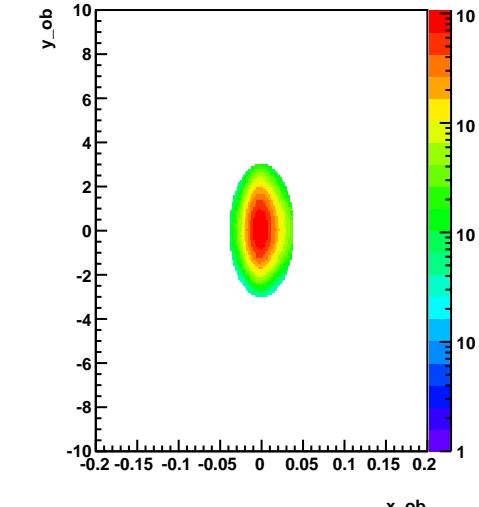
Pi dInvBeta p[0.60-0.80]



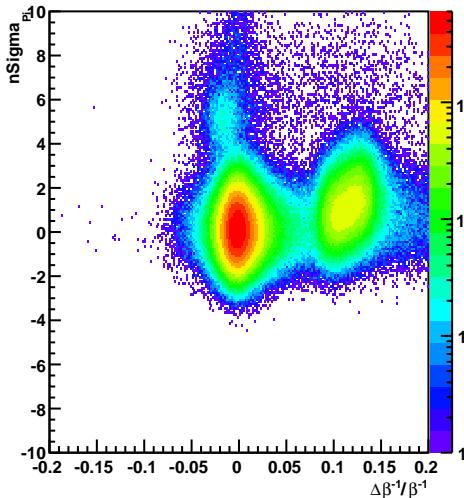
Histogram of hh\_sig\_x\_ob\_y\_ob



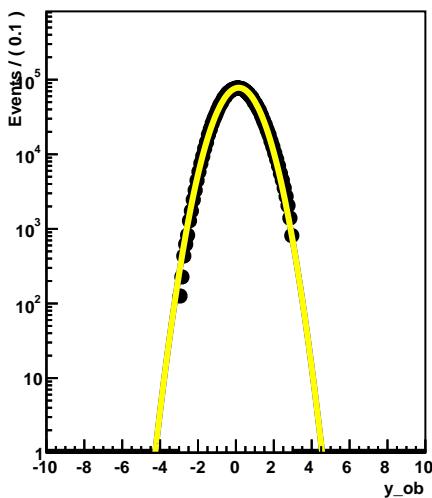
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



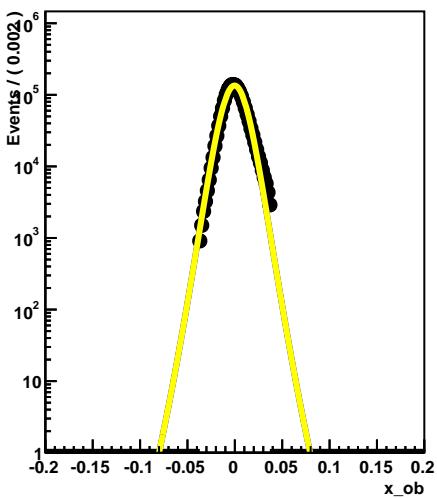
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] |η| [0.2-0.4]



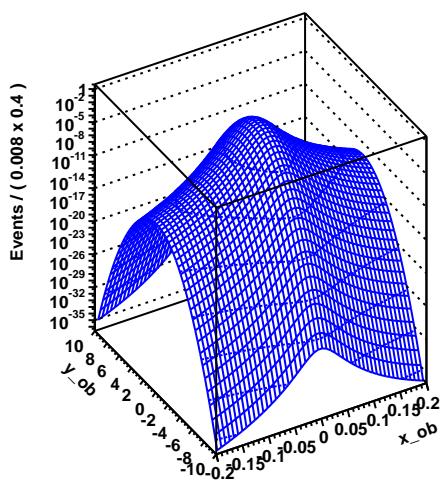
Pi nSigmaDEdx p[0.80-1.00]



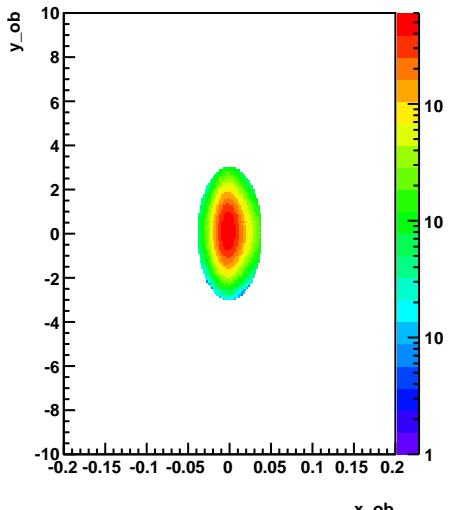
Pi dlnvBeta p[0.80-1.00]



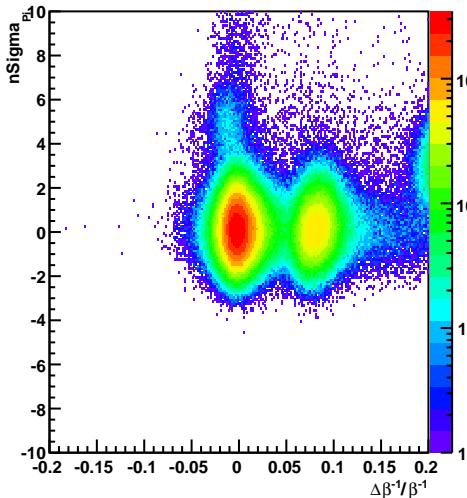
Histogram of hh\_sig\_x\_ob\_y\_ob



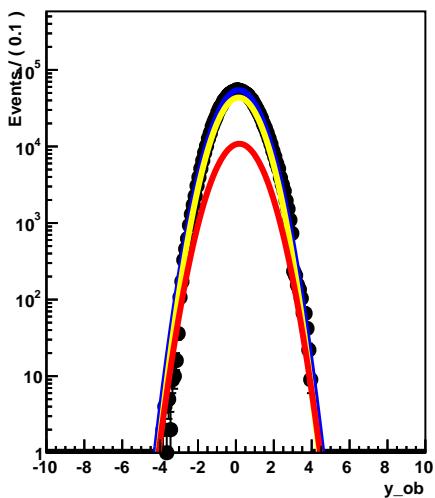
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



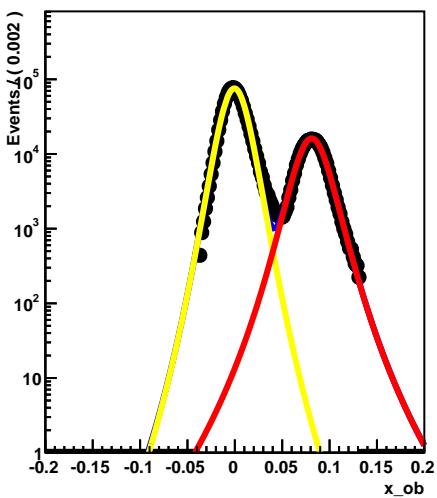
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] |η| [0.2-0.4]



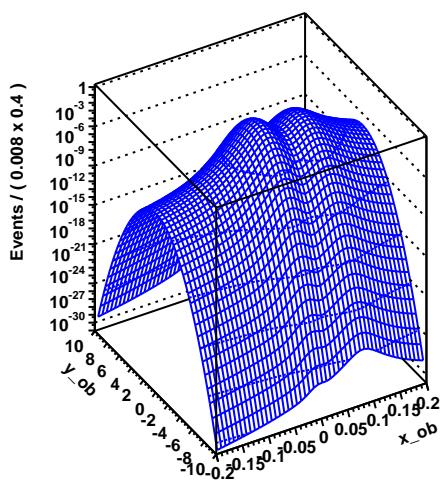
Pi nSigmaDEdx p[1.00-1.20]



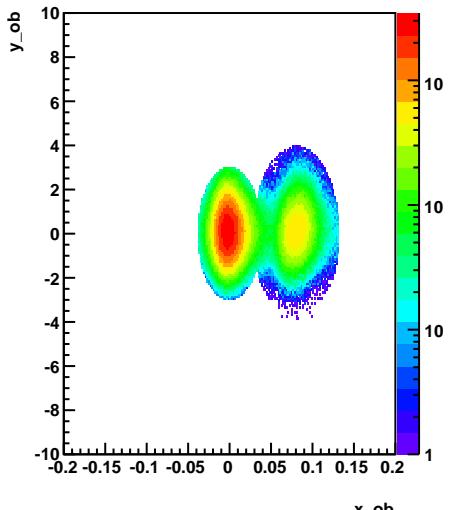
Pi dlnvBeta p[1.00-1.20]



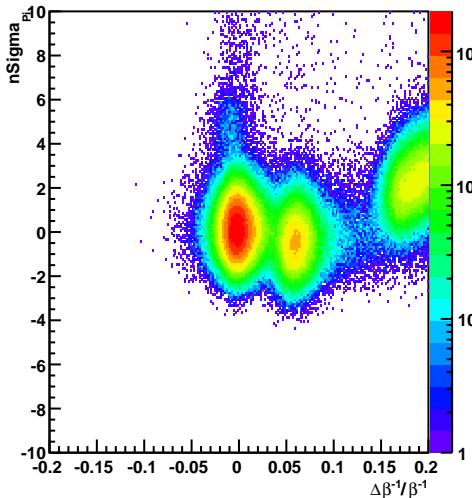
Histogram of hh\_sig\_x\_ob\_y\_ob



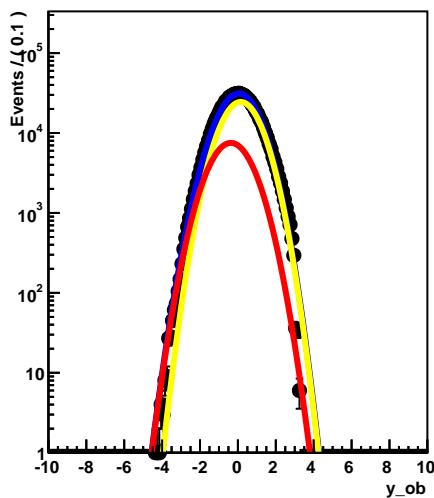
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



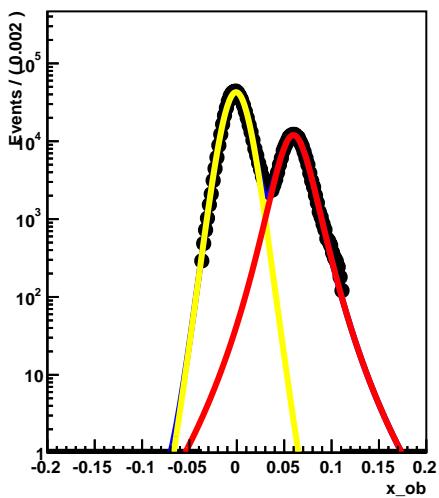
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] |η| [0.2-0.4]



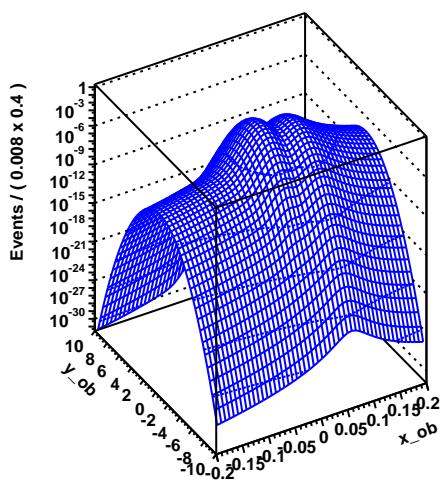
Pi nSigmaDEdx p[1.20-1.40]



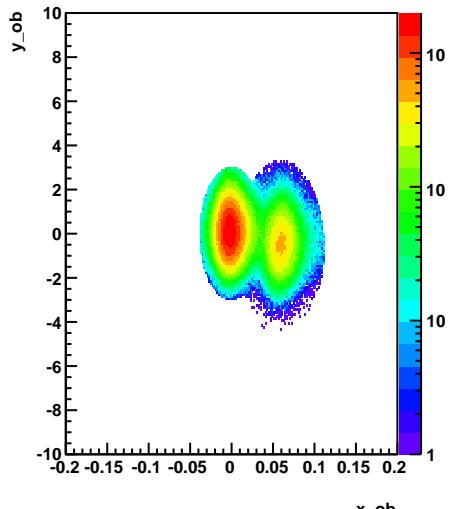
Pi dInvBeta p[1.20-1.40]



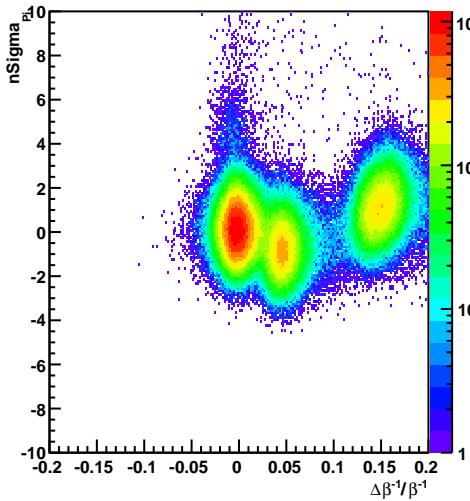
Histogram of hh\_sig\_x<sub>ob</sub>\_y<sub>ob</sub>



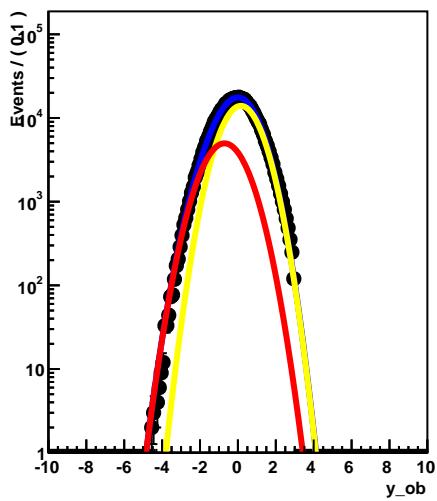
Histogram of hh\_data\_Pi\_x<sub>ob</sub>\_y<sub>ob</sub>



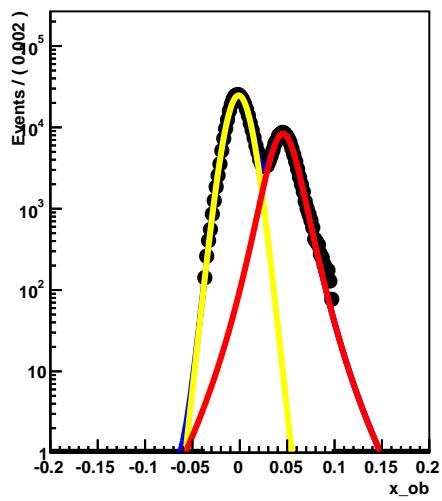
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] | $\eta$ | [0.2-0.4]



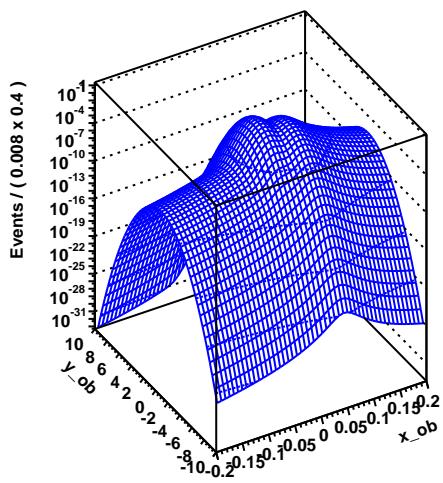
Pi nSigmaDEdx p[1.40-1.60]



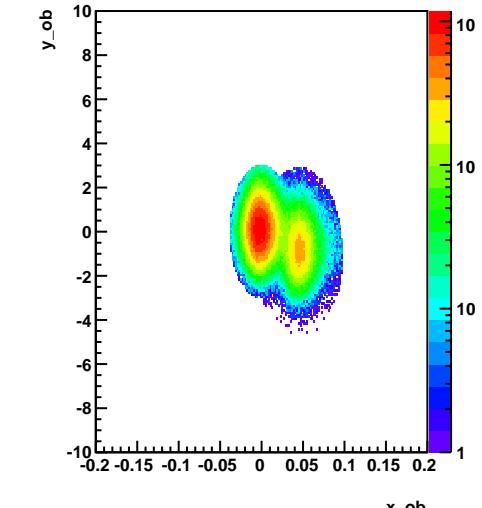
Pi dlnvBeta p[1.40-1.60]



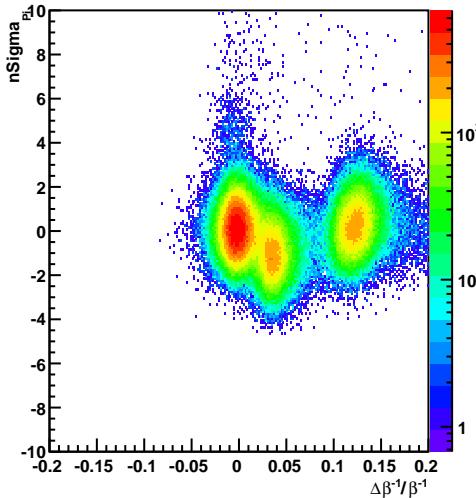
Histogram of hh\_sig\_x\_ob\_y\_ob



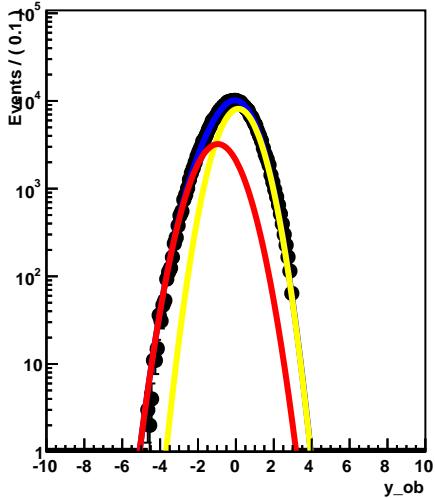
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



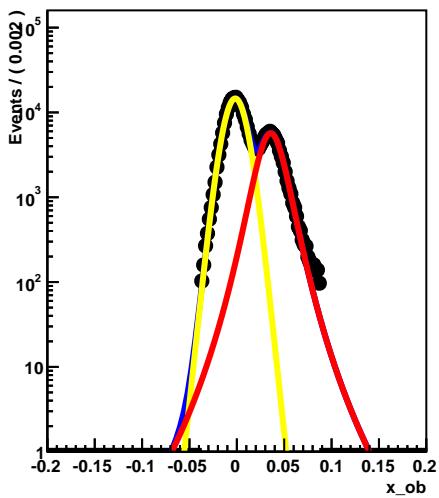
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] | $\eta$ | [0.2-0.4]



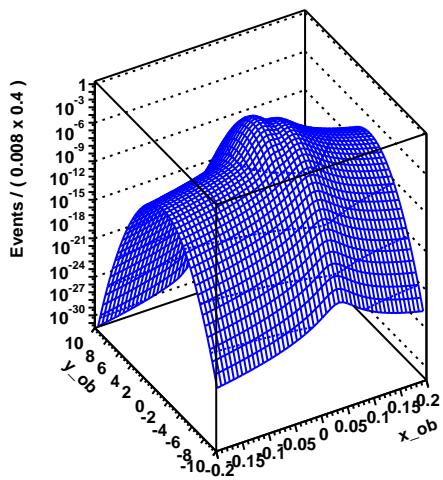
Pi nSigmaDEdx p[1.60-1.80]



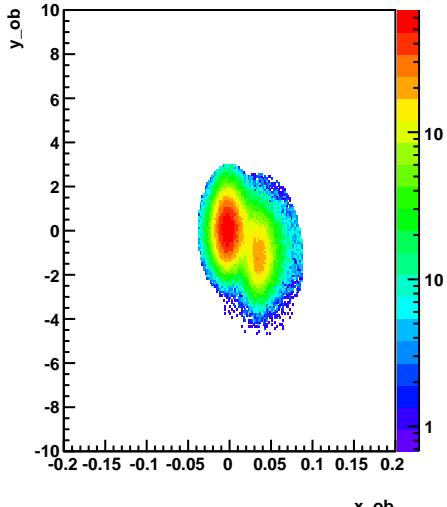
Pi dlnvBeta p[1.60-1.80]



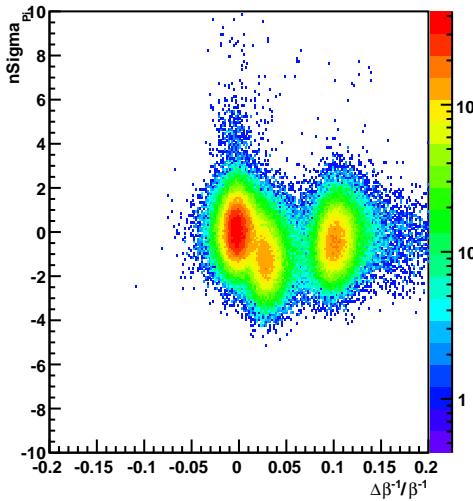
Histogram of hh\_sig\_x\_ob\_y\_ob



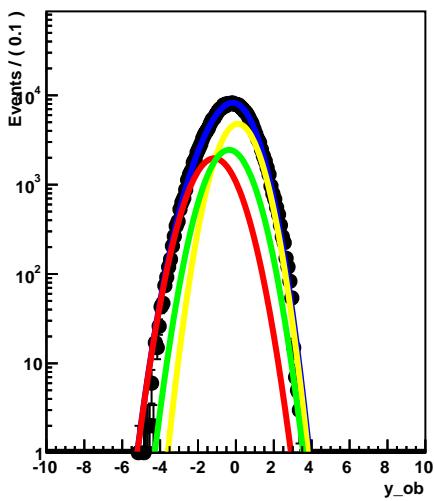
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



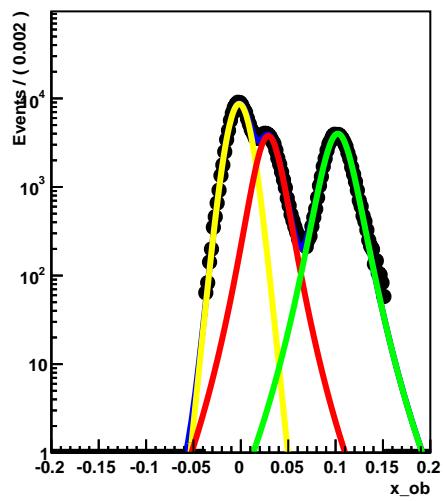
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.80-2.00] | $\eta$ | [0.2-0.4]



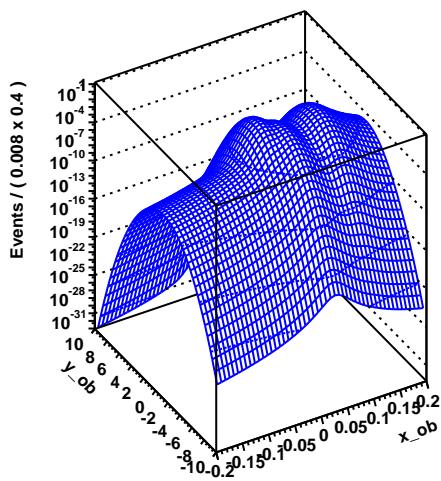
Pi nSigmaDEdx p[1.80-2.00]



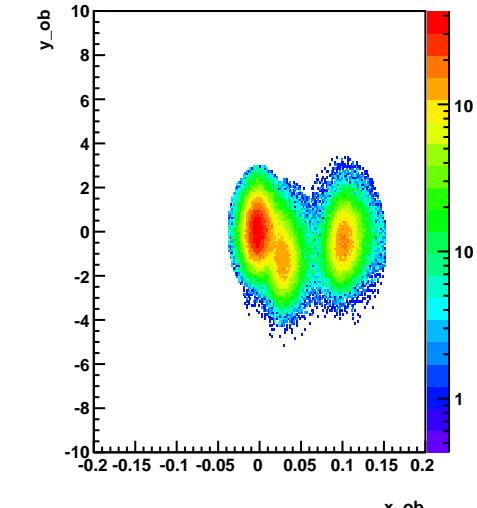
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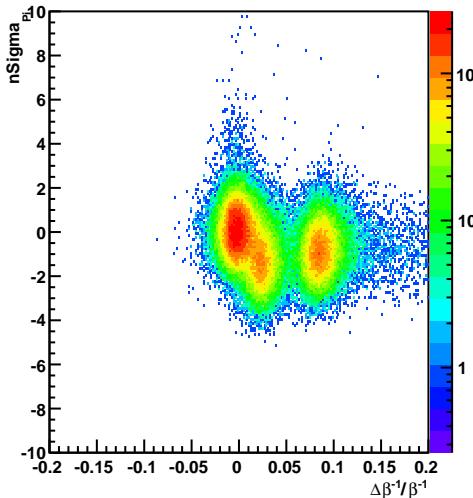
Histogram of hh\_sig\_x\_ob\_y\_ob



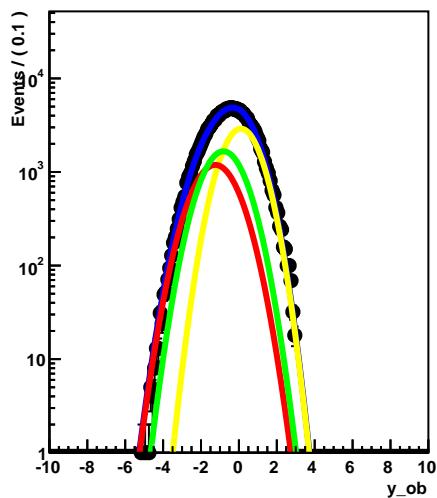
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



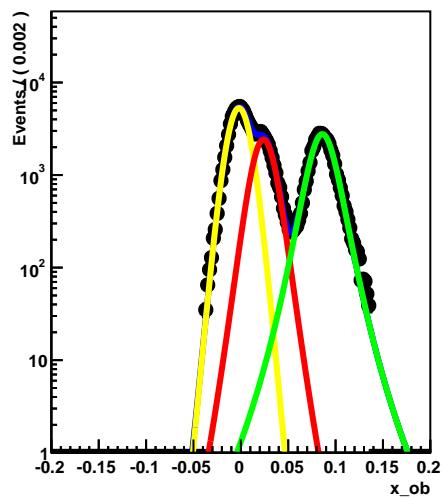
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.00-2.20]  $|\eta|$  [0.2-0.4]



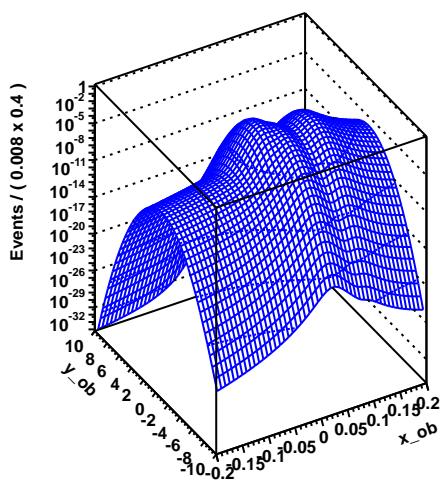
Pi nSigmaDEdx p[2.00-2.20]



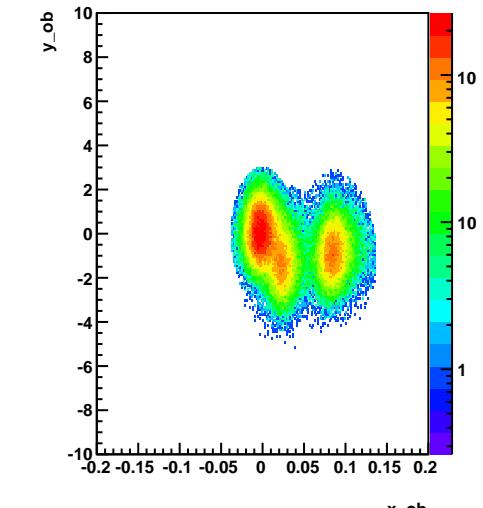
Pi dlnvBeta p[2.00-2.20]



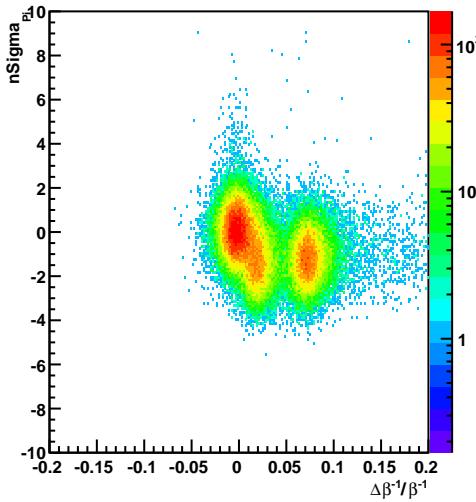
Histogram of hh\_sig\_x\_ob\_y\_ob



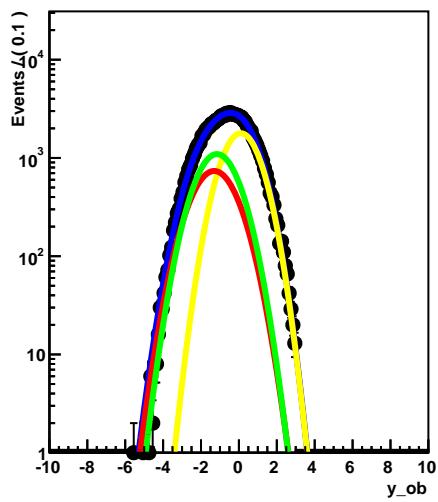
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



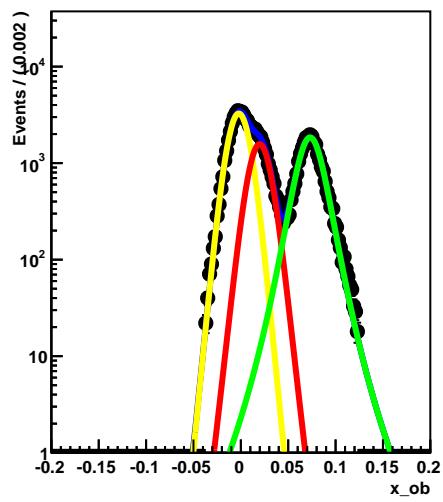
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.20-2.40]  $|\eta|$  [0.2-0.4]



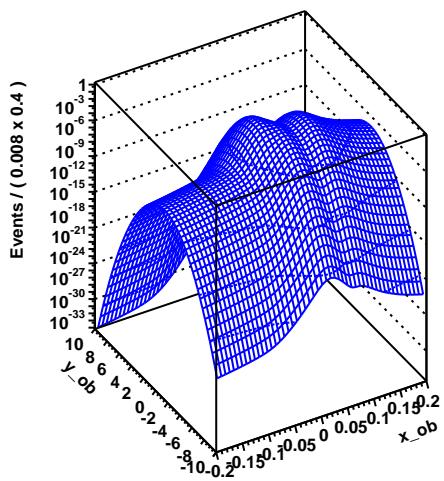
Pi nSigmaDEdx p[2.20-2.40]



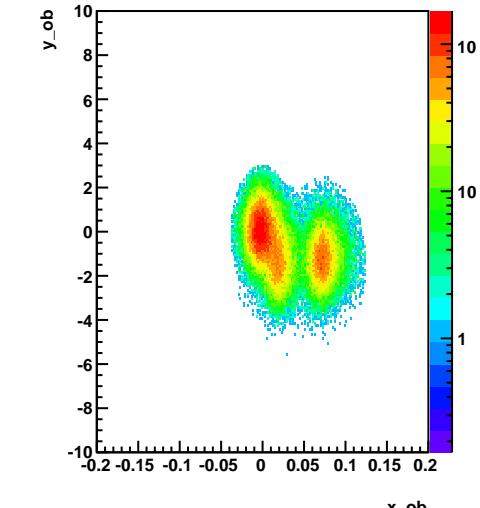
Pi dlnvBeta p[2.20-2.40]



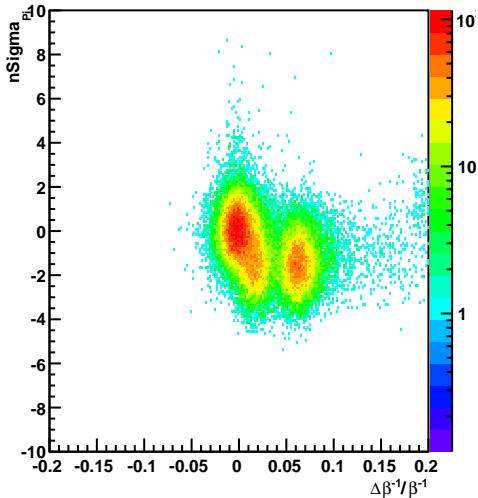
Histogram of hh\_sig\_x\_ob\_y\_ob



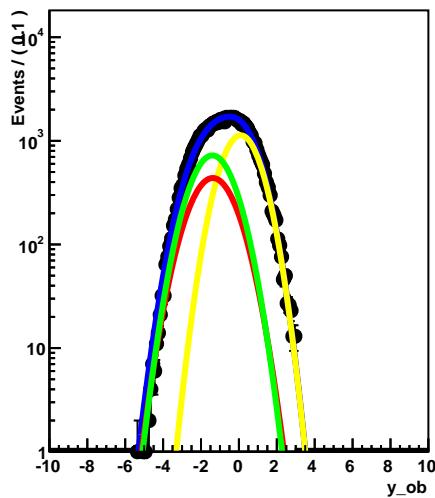
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



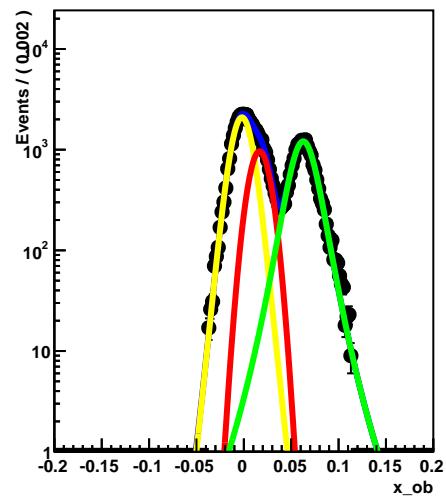
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.40-2.60] | $\eta$ | [0.2-0.4]



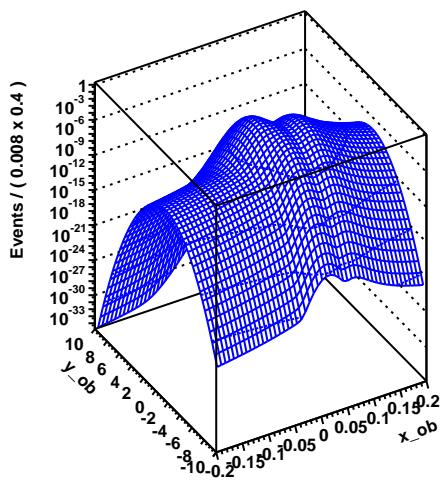
Pi nSigmaDEdx p[2.40-2.60]



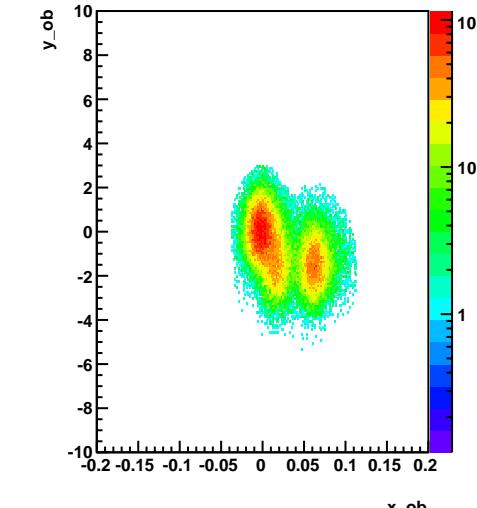
Pi dInvBeta p[2.40-2.60]



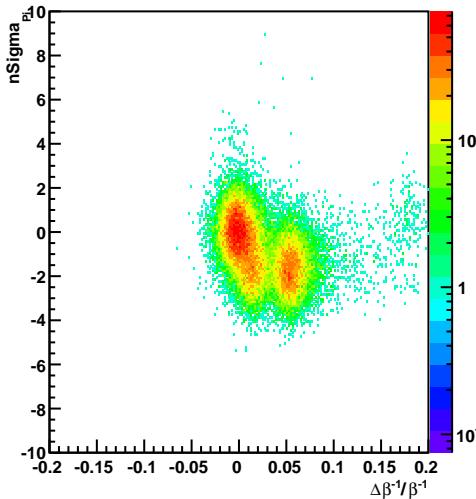
Histogram of hh\_sig\_x\_ob\_y\_ob



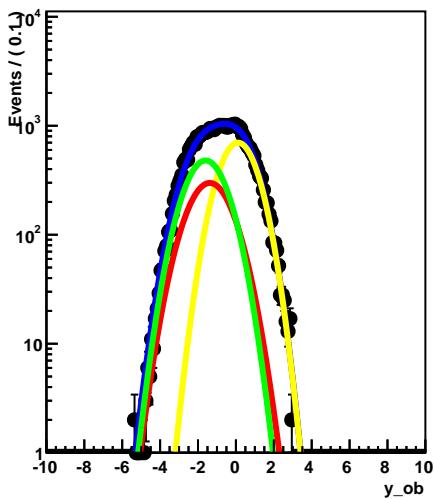
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



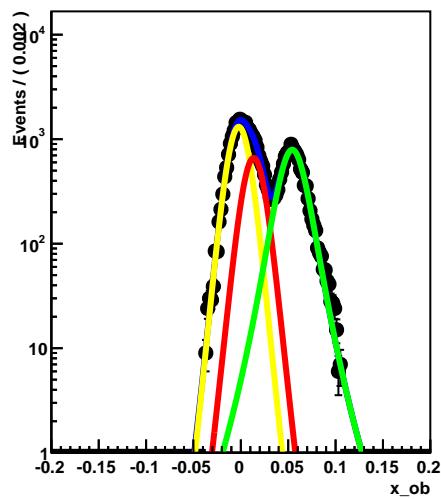
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.60-2.80] | $\eta$ | [0.2-0.4]



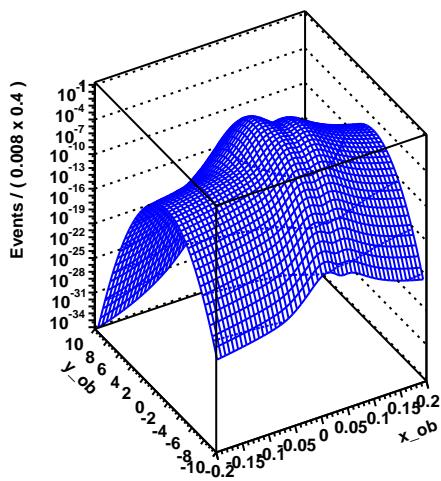
Pi nSigmaDEdx p[2.60-2.80]



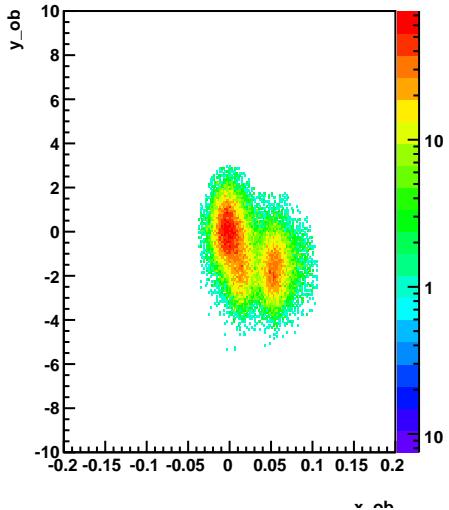
Pi dInvBeta p[2.60-2.80]



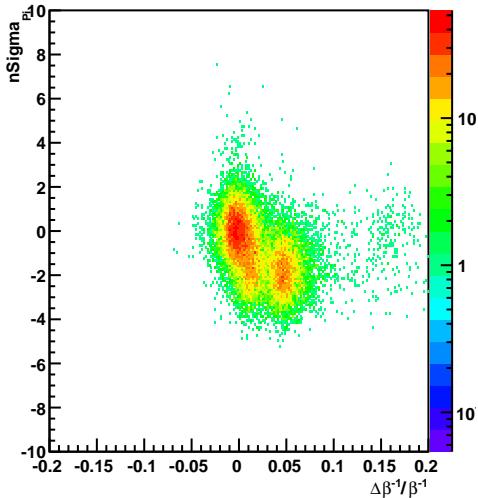
Histogram of hh\_sig\_x\_ob\_y\_ob



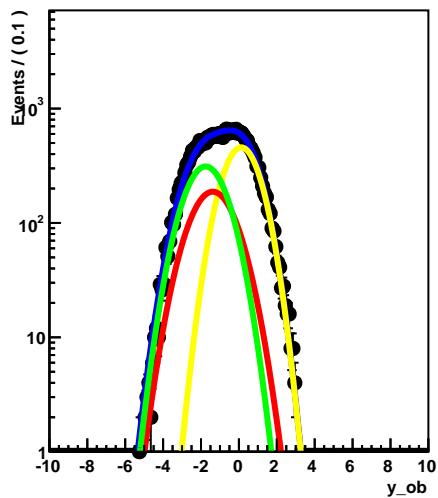
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



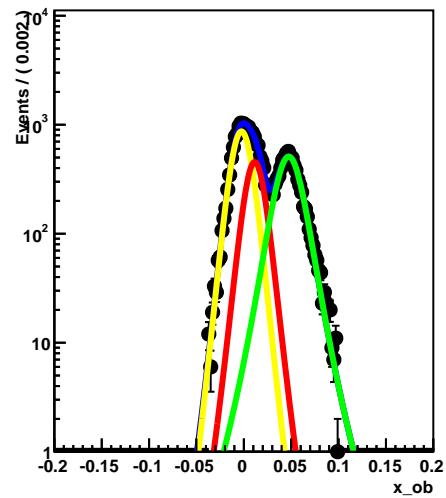
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.80-3.00]  $|\eta|$  [0.2-0.4]



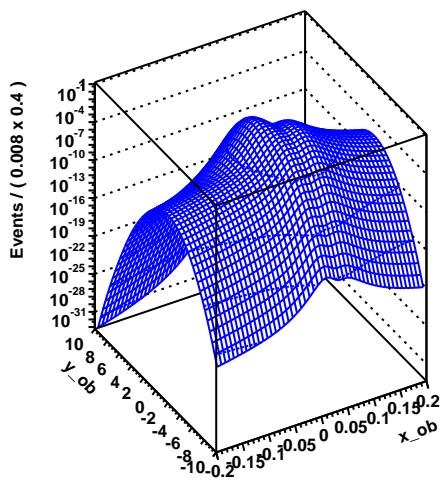
Pi nSigmaDEdx p[2.80-3.00]



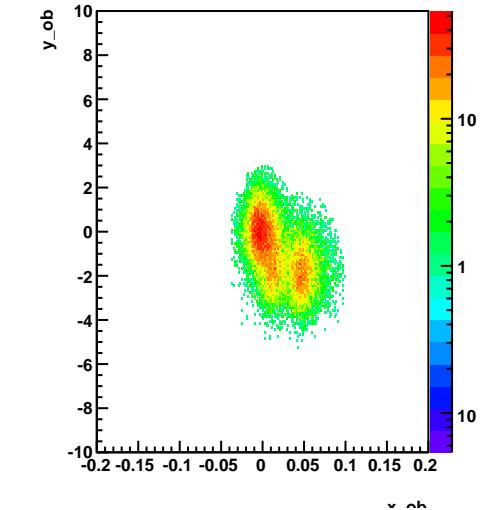
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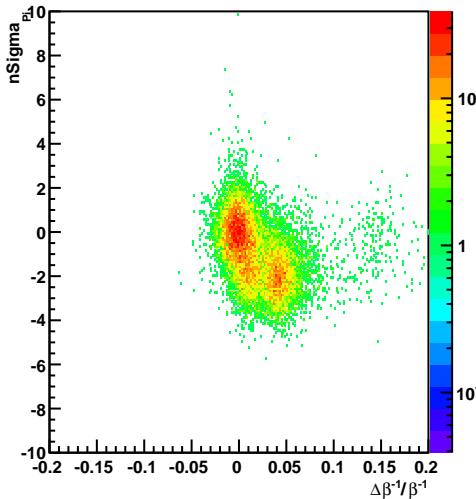
Histogram of hh\_sig\_x\_ob\_y\_ob



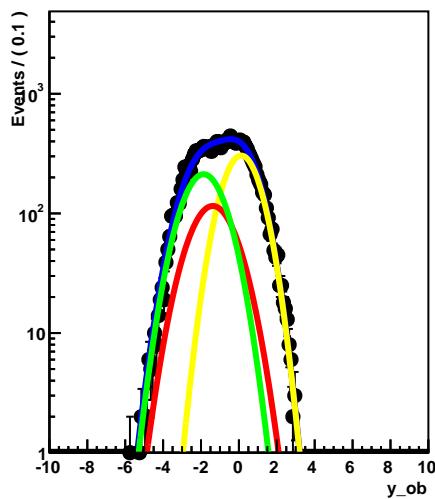
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



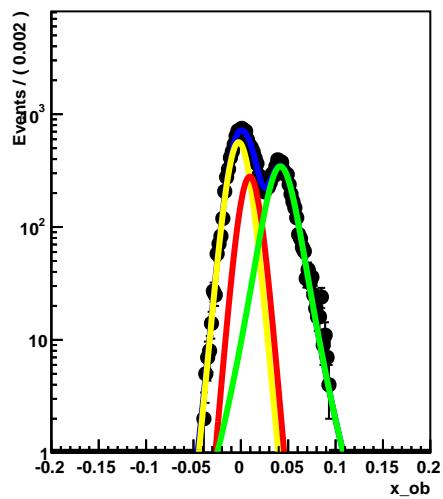
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.00-3.20]  $|\eta|$  [0.2-0.4]



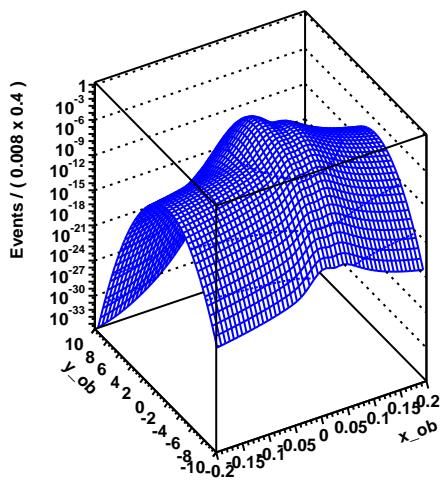
Pi nSigmaDEdx p[3.00-3.20]



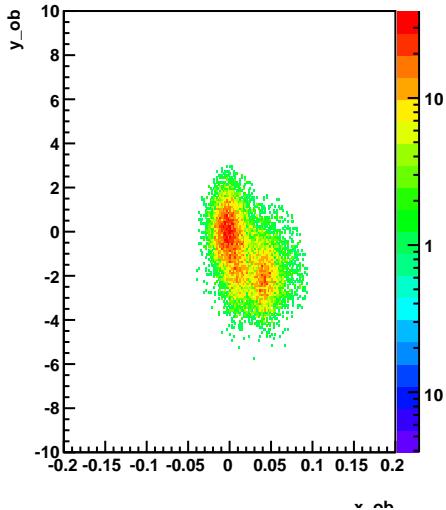
Pi dlnvBeta p[3.00-3.20]



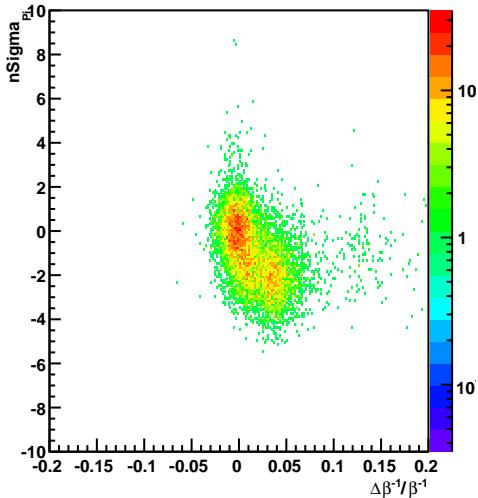
Histogram of hh\_sig\_x\_ob\_y\_ob



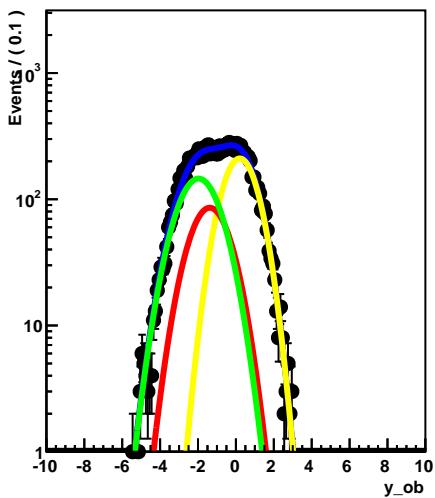
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



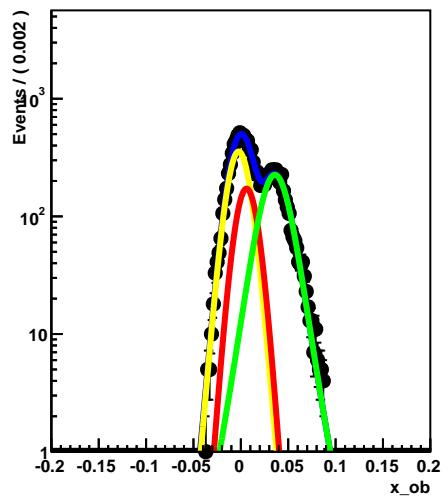
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.20-3.40] | $\eta$ | [0.2-0.4]



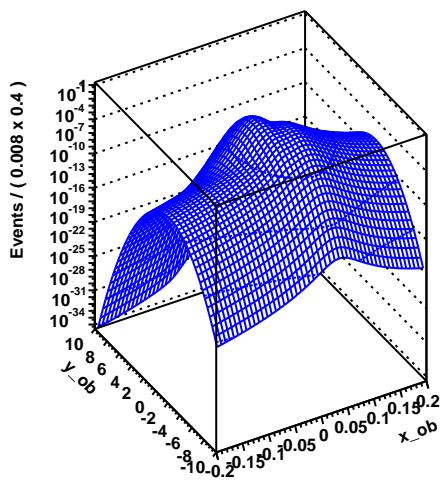
Pi nSigmaDEdx p[3.20-3.40]



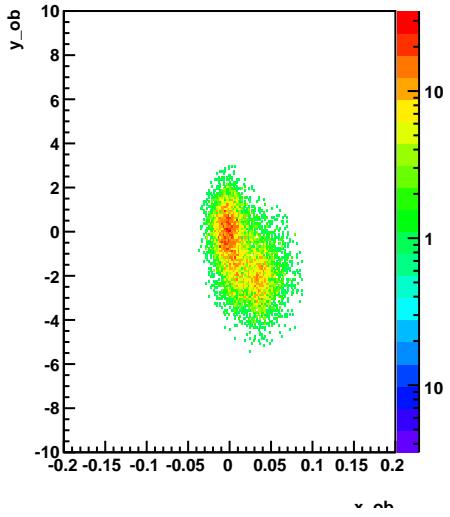
Pi dlnvBeta p[3.20-3.40]



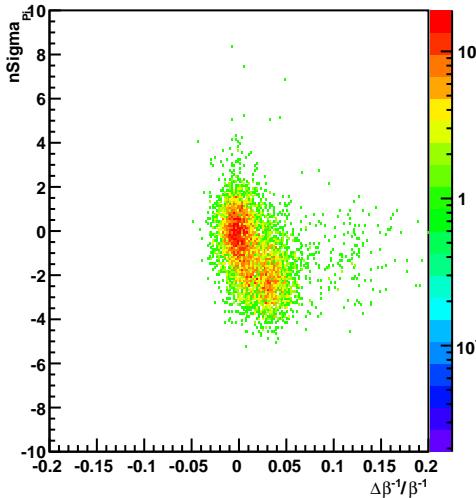
Histogram of hh\_sig\_x\_ob\_y\_ob



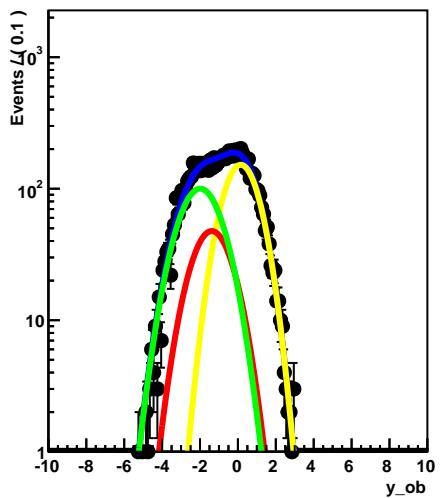
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



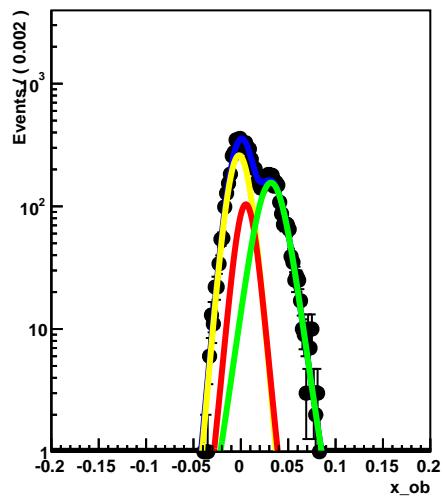
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.40-3.60] | $\eta$ | [0.2-0.4]



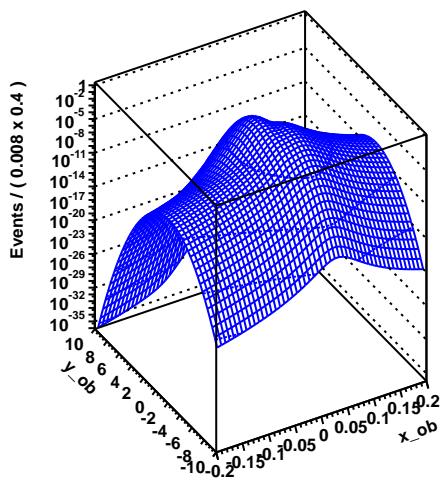
Pi nSigmaDEdx p[3.40-3.60]



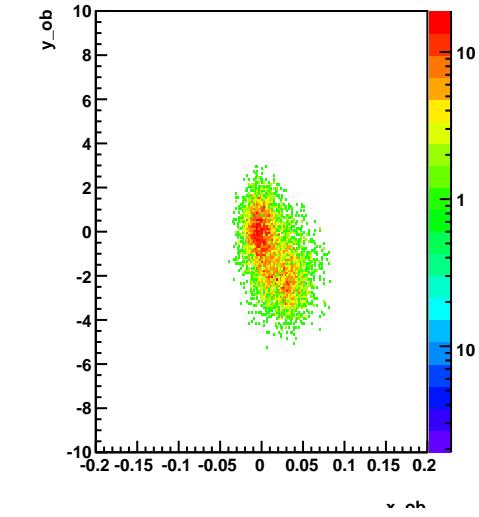
Pi dlnvBeta p[3.40-3.60]



Histogram of hh\_sig\_x\_ob\_y\_ob

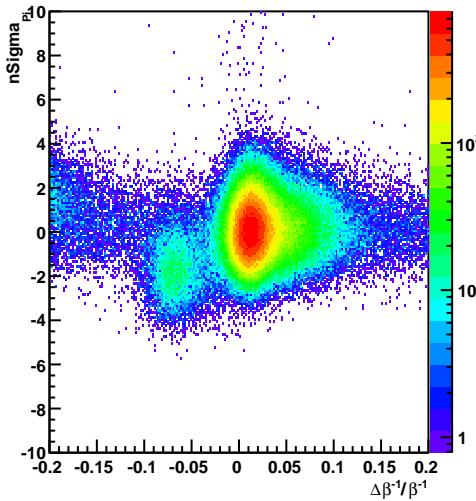


Histogram of hh\_data\_Pi\_x\_ob\_y\_ob

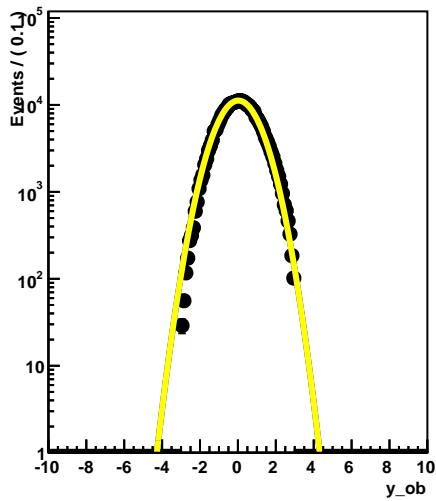




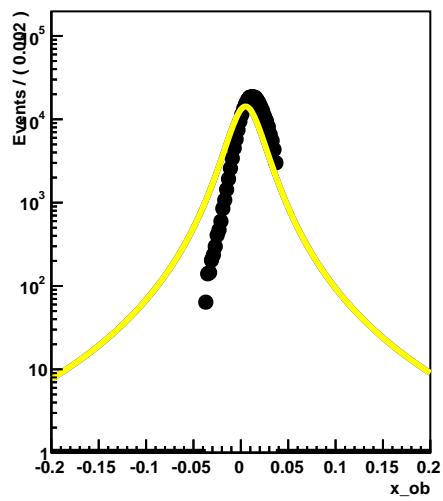
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.10-0.20] | $\eta$ | [0.4-0.6]



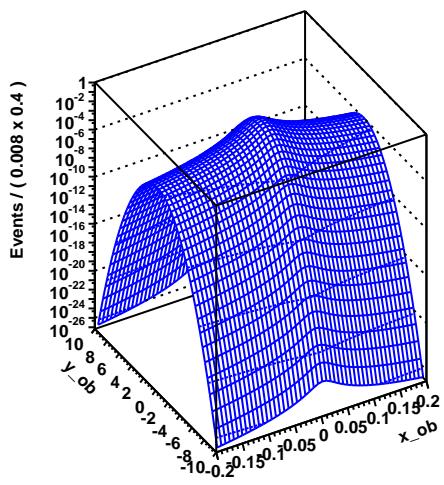
Pi nSigmaDEdx p[0.10-0.20]



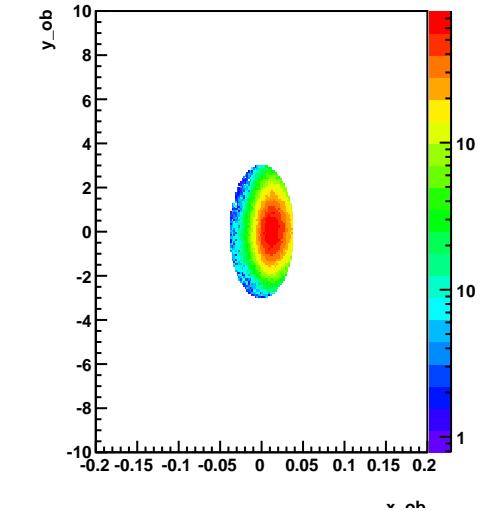
Pi dlnvBeta p[0.10-0.20]



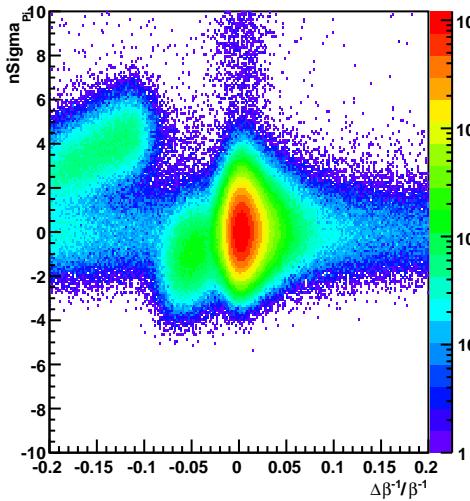
Histogram of hh\_sig\_x\_ob\_y\_ob



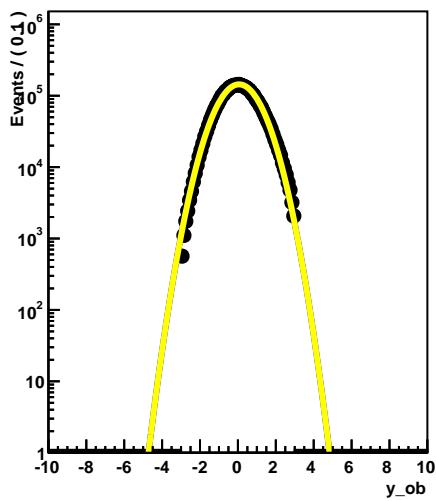
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



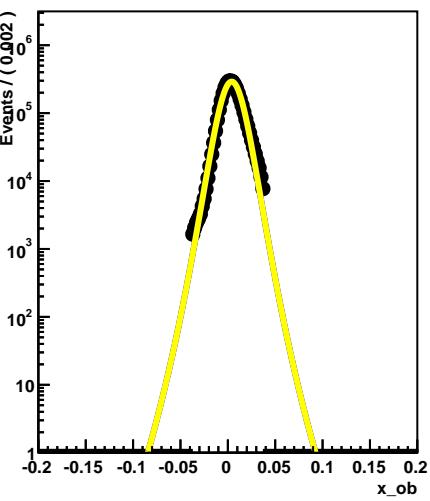
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.4-0.6]



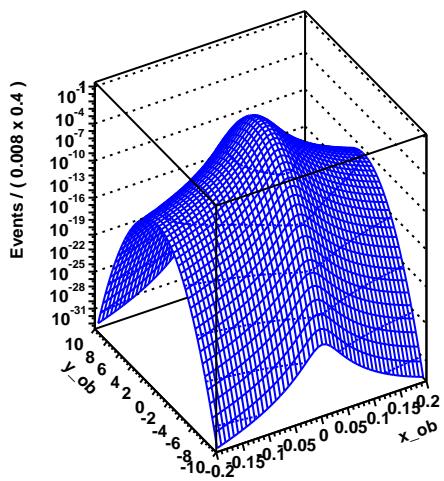
Pi nSigmaDEdx p[0.20-0.30]



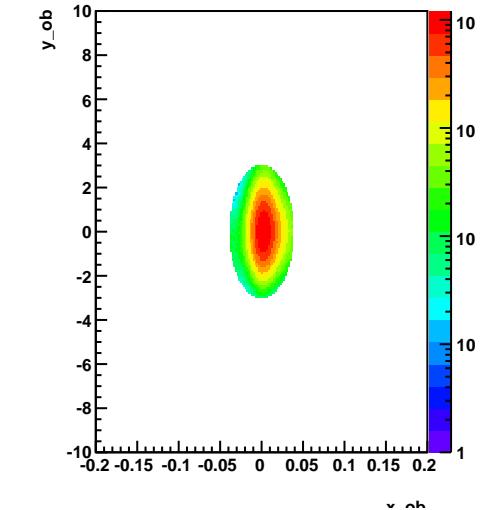
Pi dInvBeta p[0.20-0.30]



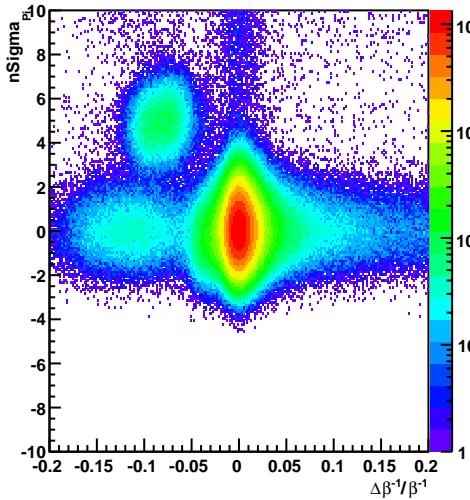
Histogram of hh\_sig\_x\_ob\_y\_ob



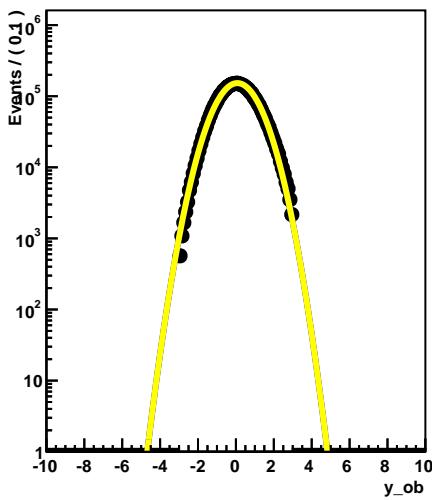
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



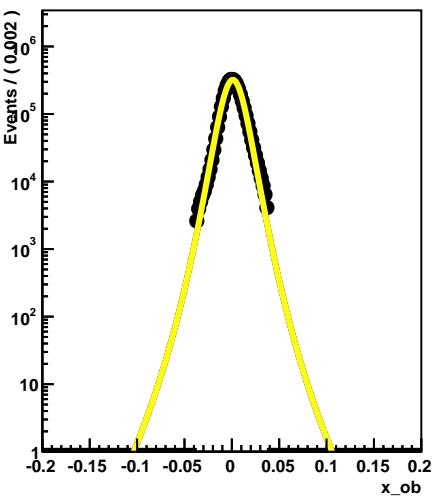
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.4-0.6]



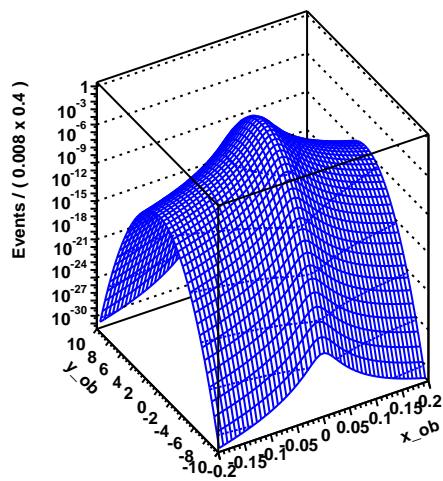
Pi nSigmaDEdx p[0.30-0.40]



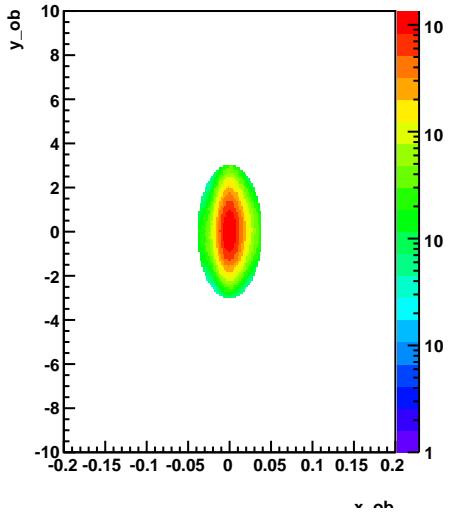
Pi dInvBeta p[0.30-0.40]



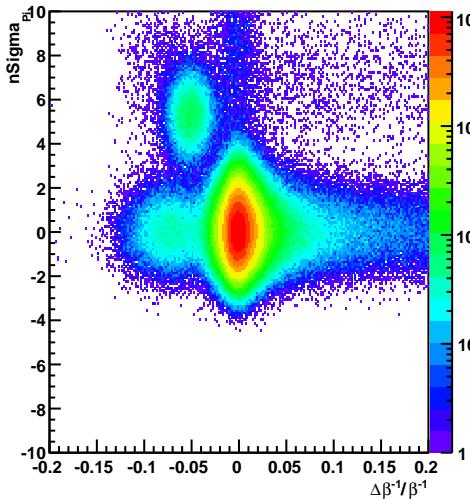
Histogram of hh\_sig\_x\_ob\_y\_ob



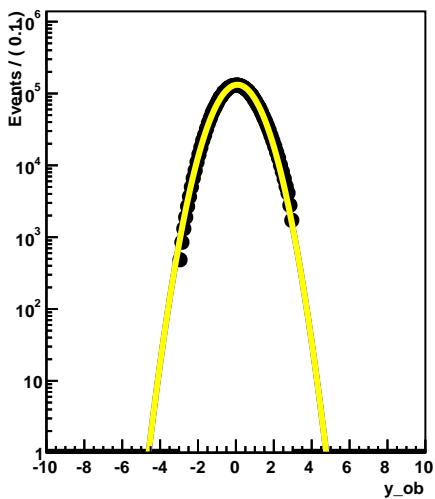
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



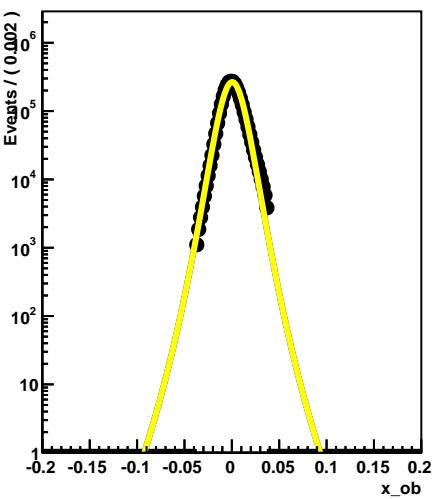
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] |η| [0.4-0.6]



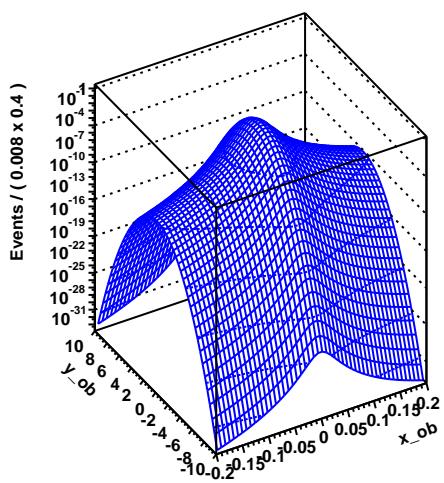
Pi nSigmaDEdx p[0.40-0.50]



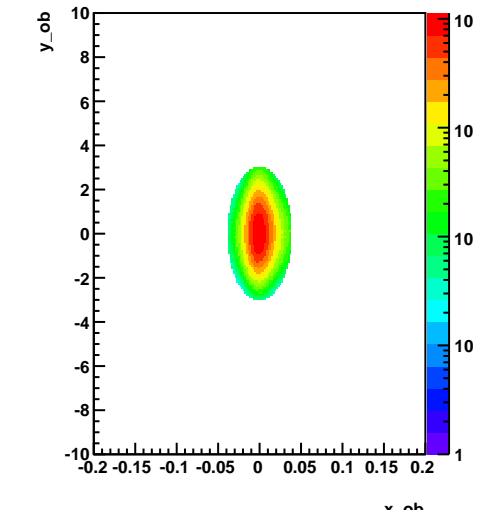
Pi dInvBeta p[0.40-0.50]



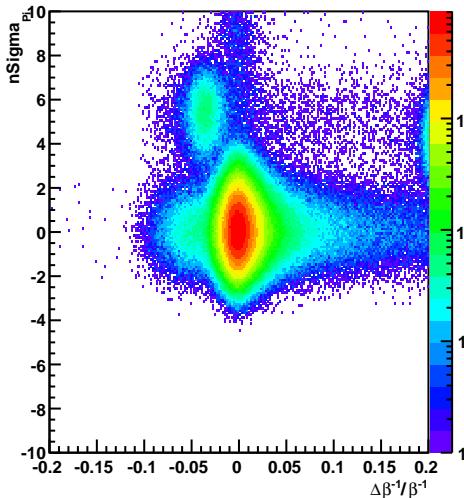
Histogram of hh\_sig\_x\_ob\_y\_ob



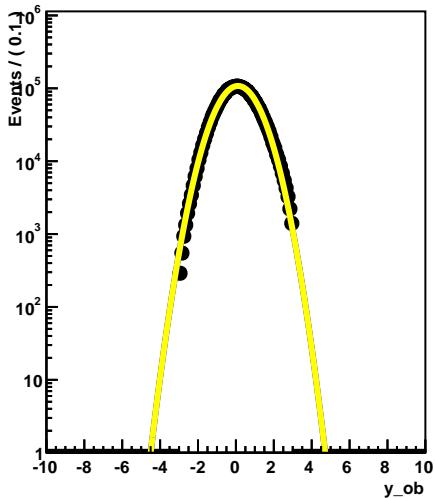
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



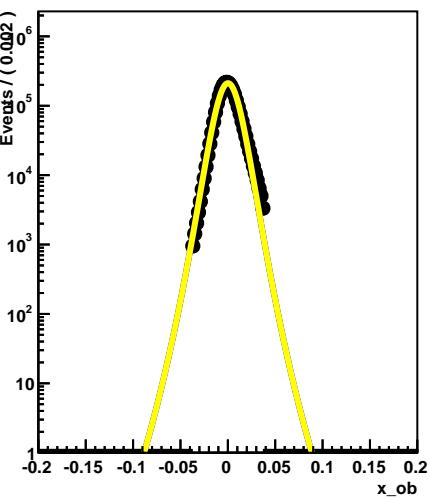
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.4-0.6]



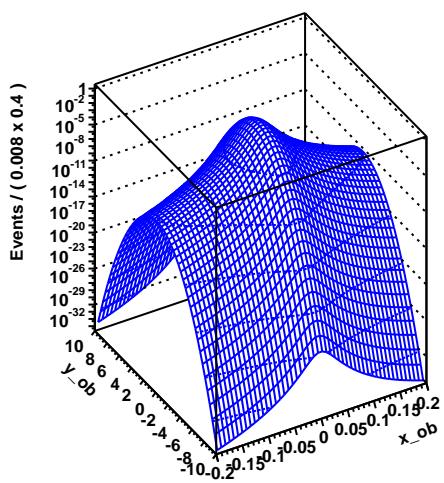
Pi nSigmaDEdx p[0.50-0.60]



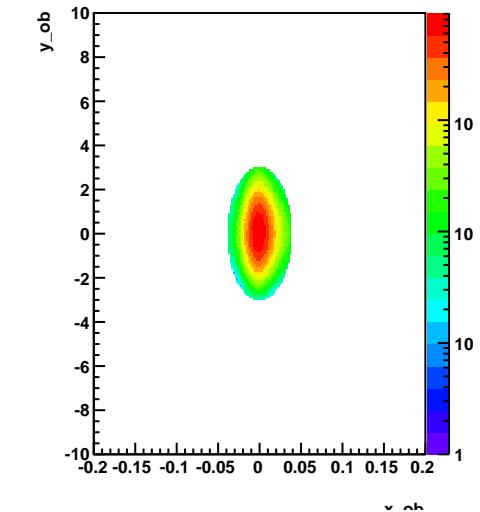
Pi dInvBeta p[0.50-0.60]



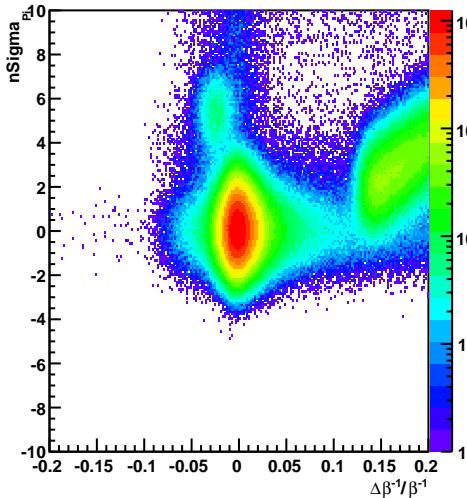
Histogram of hh\_sig\_x\_ob\_y\_ob



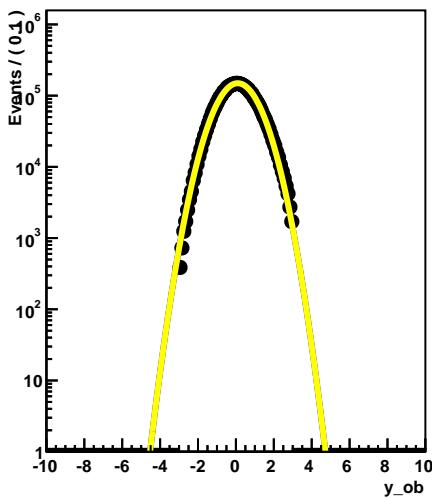
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



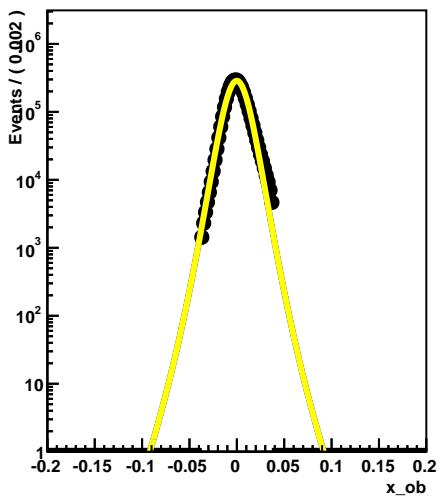
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.4-0.6]



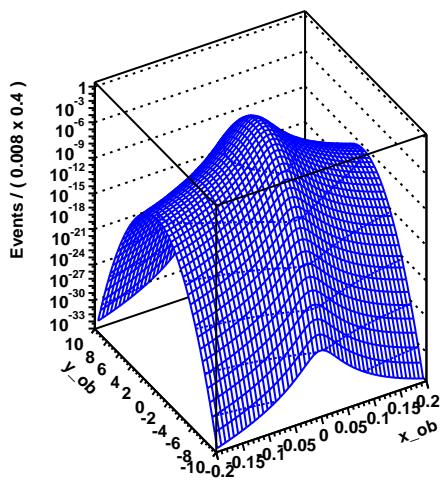
Pi nSigmaDEdx p[0.60-0.80]



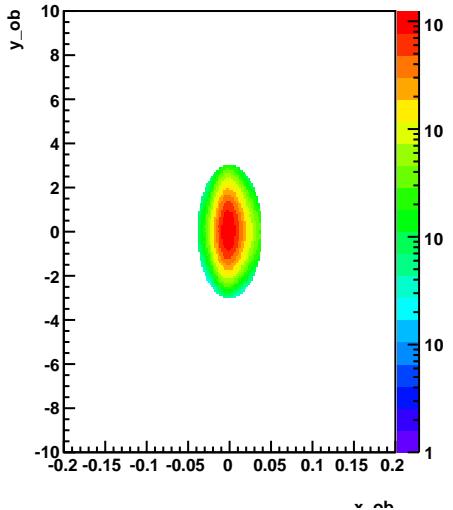
Pi dInvBeta p[0.60-0.80]



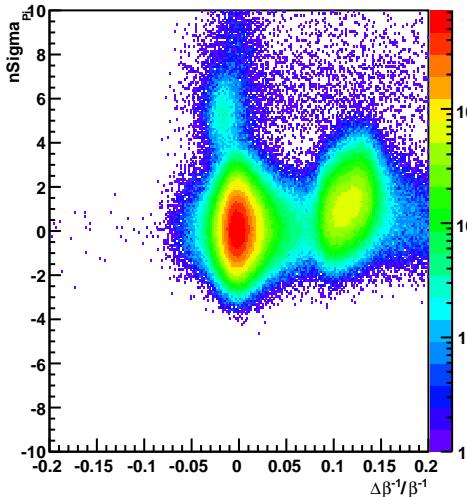
Histogram of hh\_sig\_x\_ob\_y\_ob



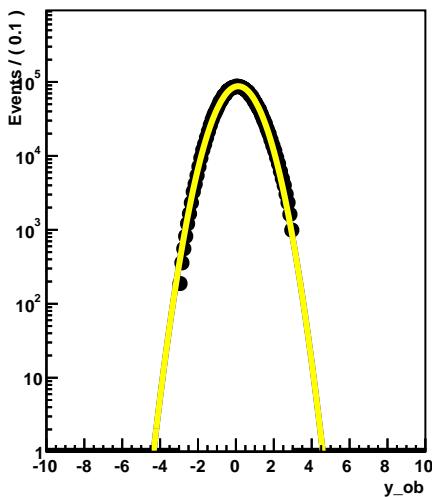
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



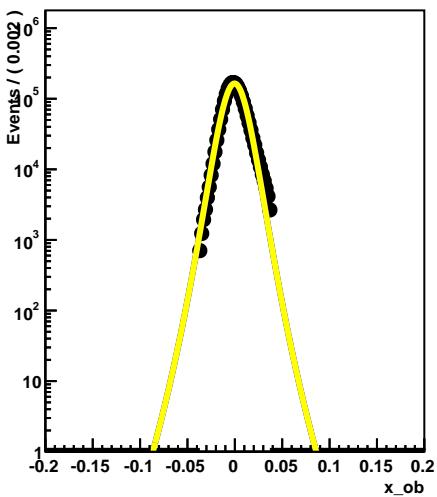
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.4-0.6]



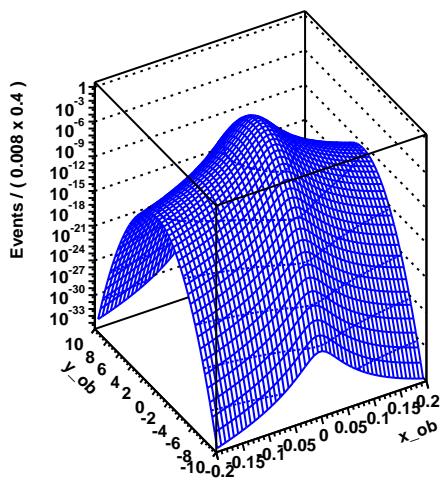
Pi nSigmaDEdx p[0.80-1.00]



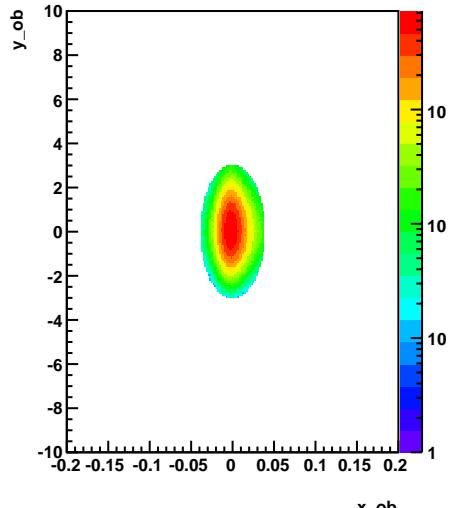
Pi dlnvBeta p[0.80-1.00]



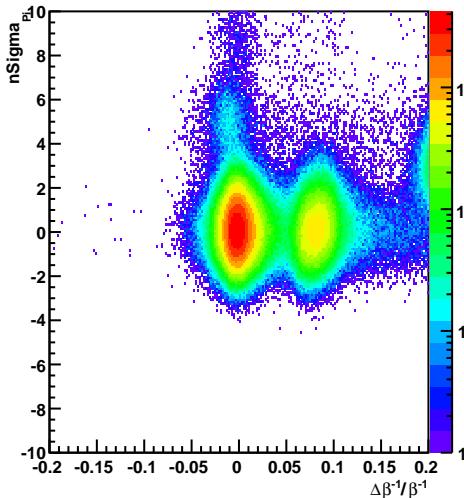
Histogram of hh\_sig\_x\_ob\_y\_ob



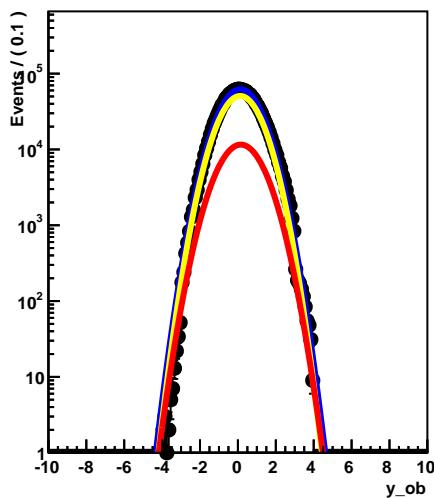
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



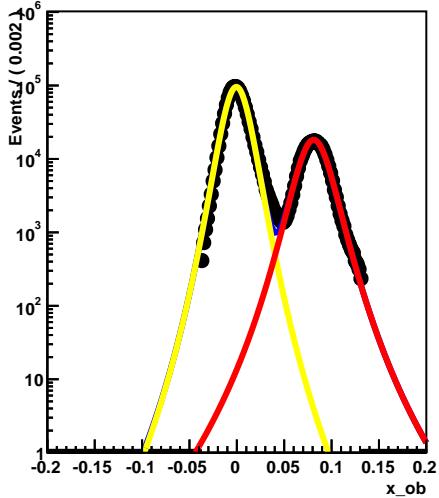
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] |η| [0.4-0.6]



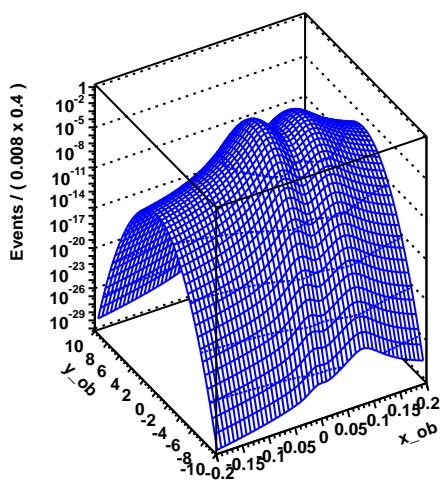
Pi nSigmaDEdx p[1.00-1.20]



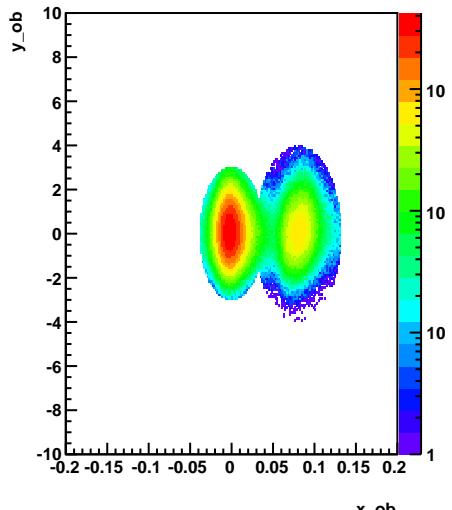
Pi dInvBeta p[1.00-1.20]



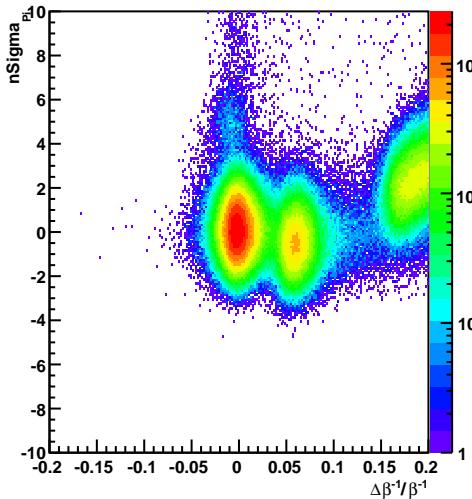
Histogram of hh\_sig\_x\_ob\_y\_ob



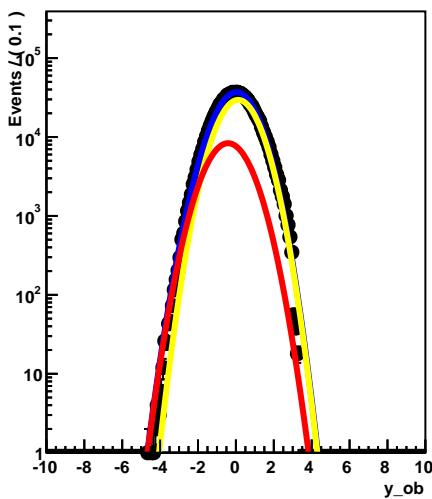
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



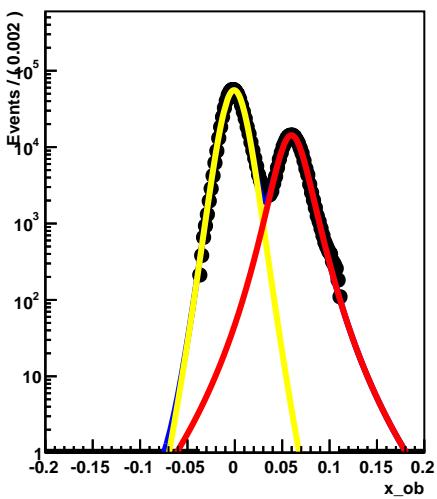
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] |η| [0.4-0.6]



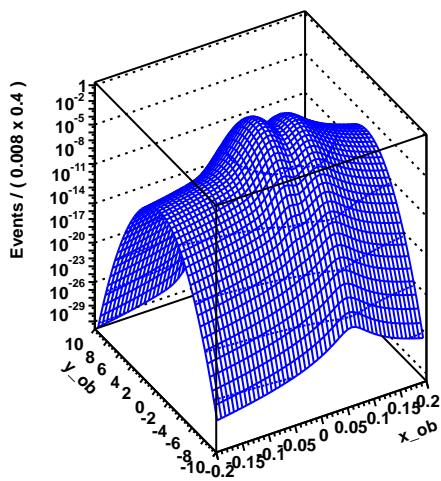
Pi nSigmaDEdx p[1.20-1.40]



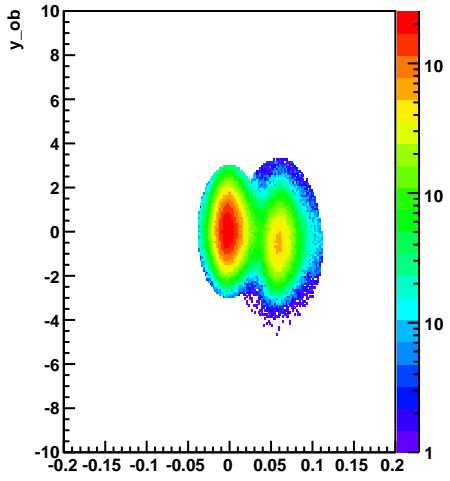
Pi dlnvBeta p[1.20-1.40]



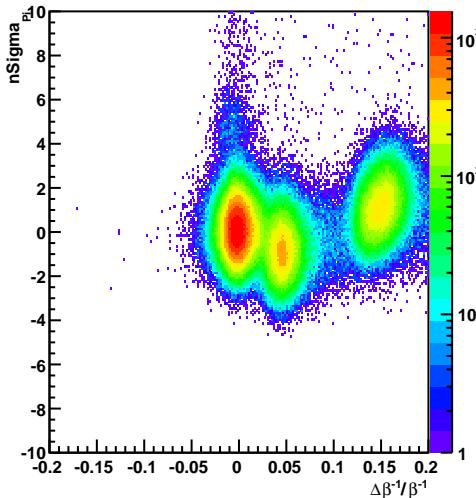
Histogram of hh\_sig\_x\_ob\_y\_ob



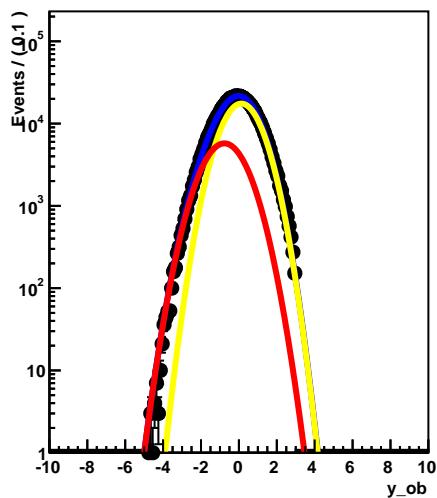
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



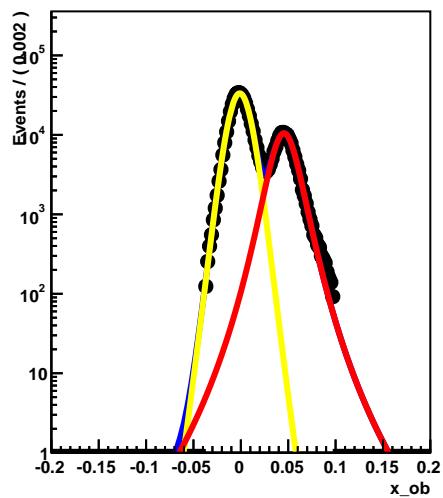
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] |η| [0.4-0.6]



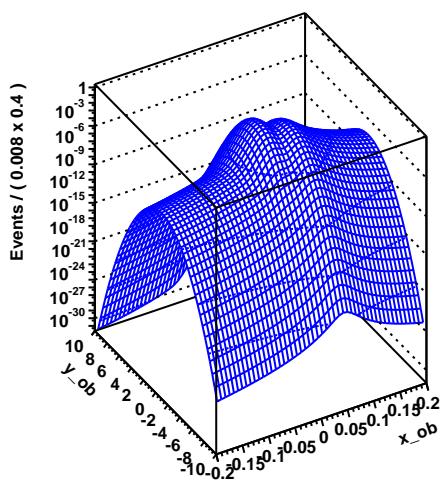
Pi nSigmaDEdx p[1.40-1.60]



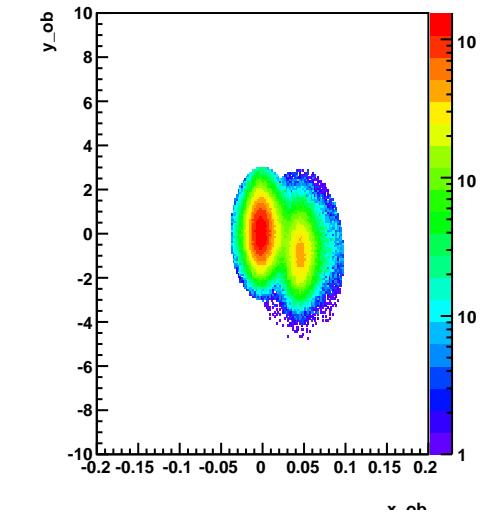
Pi dlnvBeta p[1.40-1.60]



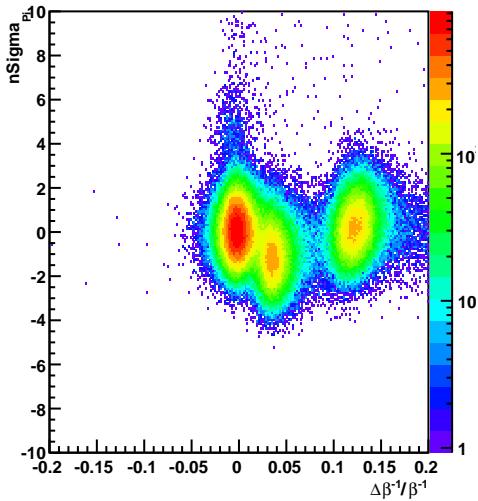
Histogram of hh\_sig\_x\_ob\_y\_ob



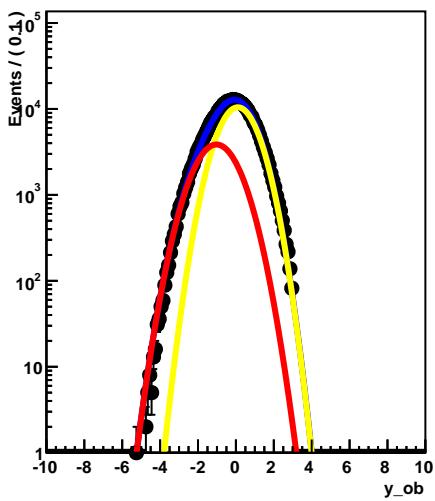
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



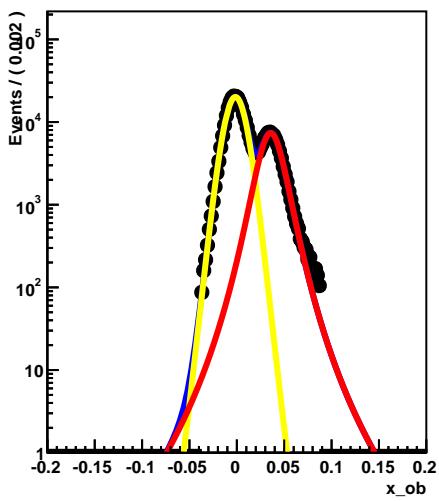
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] |η| [0.4-0.6]



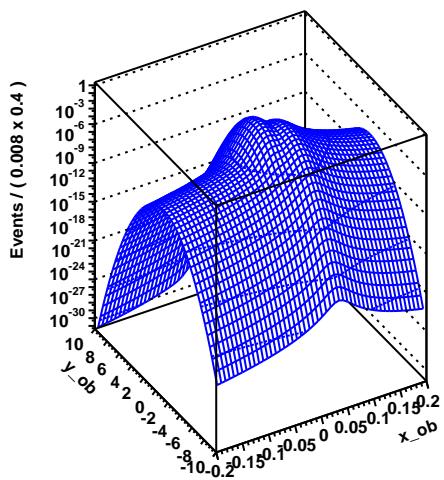
Pi nSigmaDEdx p[1.60-1.80]



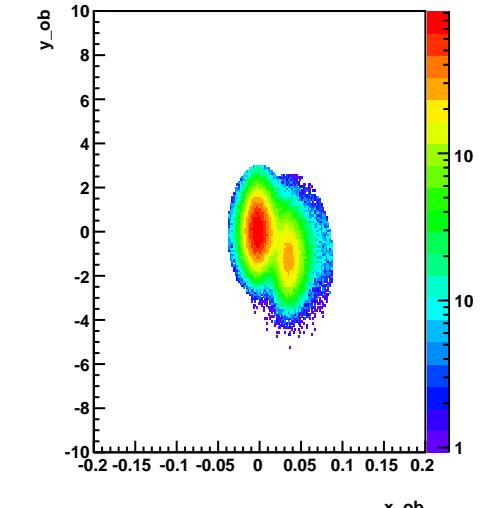
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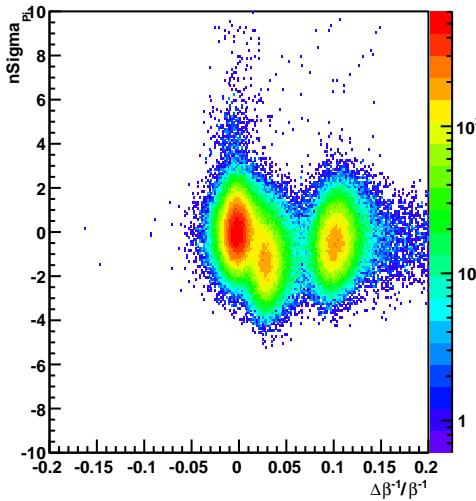
Histogram of hh\_sig\_x\_ob\_y\_ob



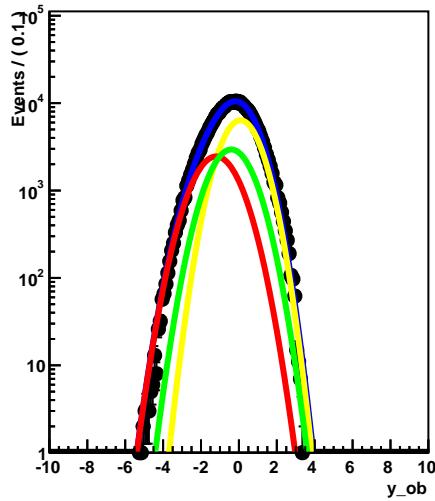
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



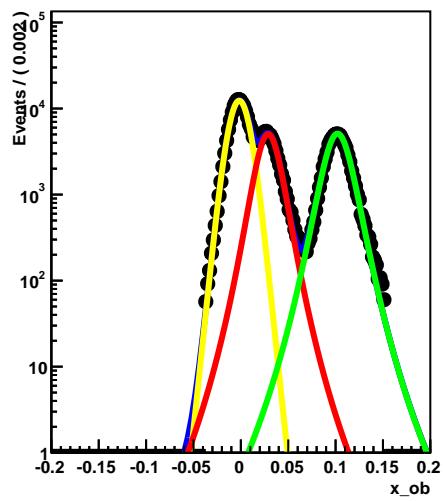
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.80-2.00] |η| [0.4-0.6]



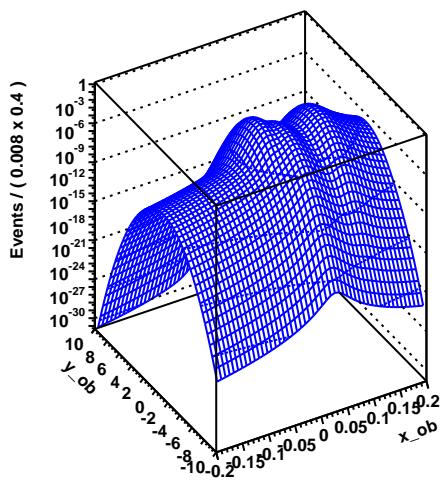
Pi nSigmaDEdx p[1.80-2.00]



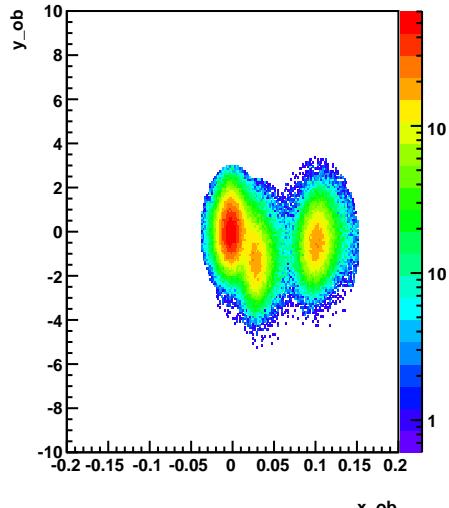
Pi dInvBeta p[1.80-2.00]



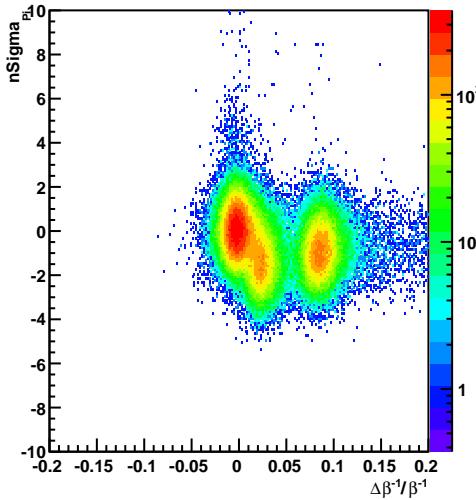
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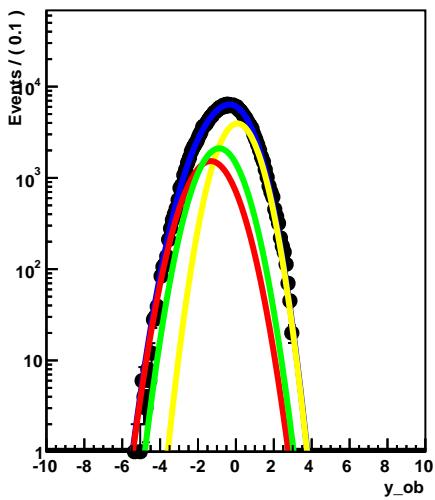
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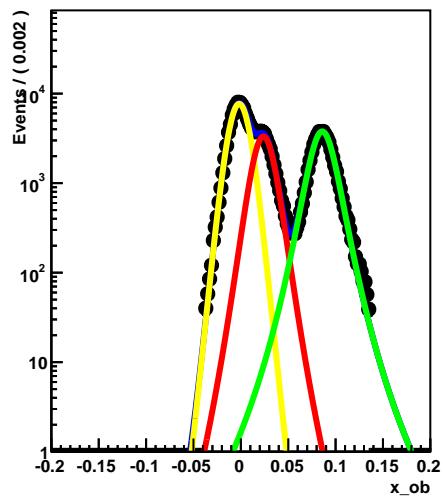
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.00-2.20] | $\eta$ | [0.4-0.6]



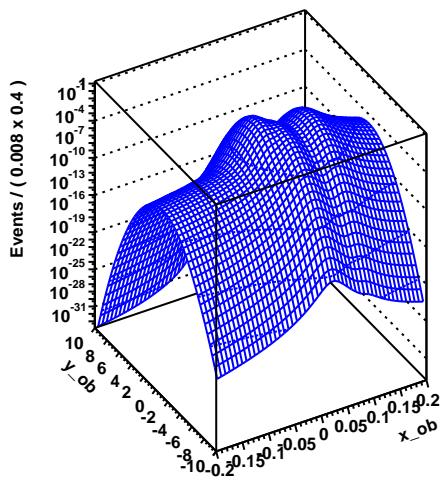
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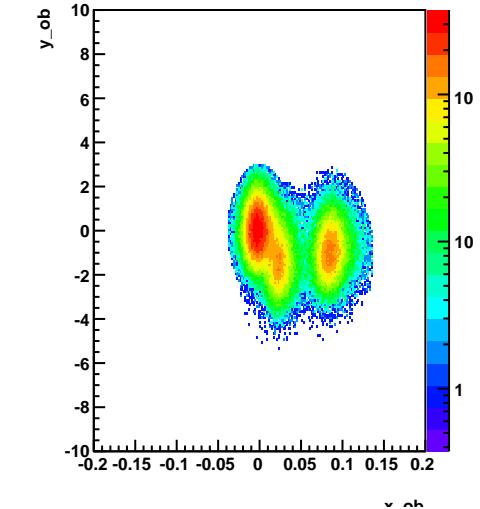
Pi dlnvBeta p[2.00-2.20]



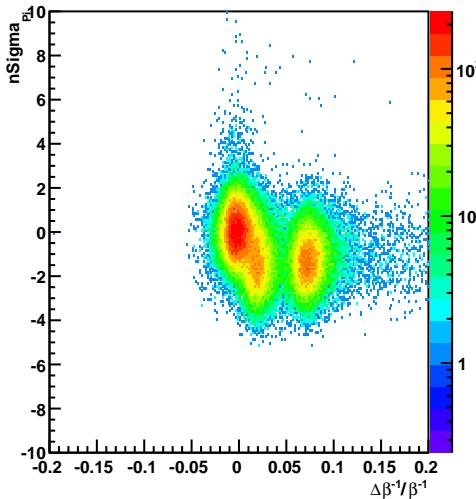
Histogram of hh\_sig\_x\_ob\_y\_ob



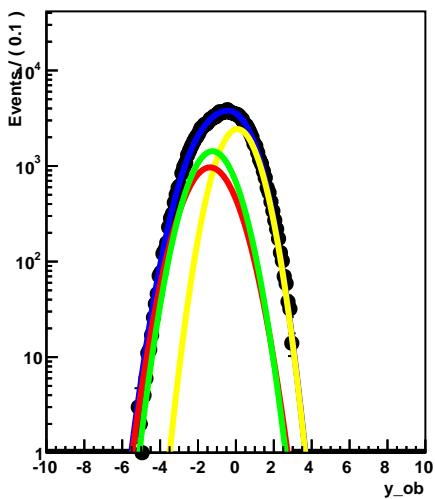
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



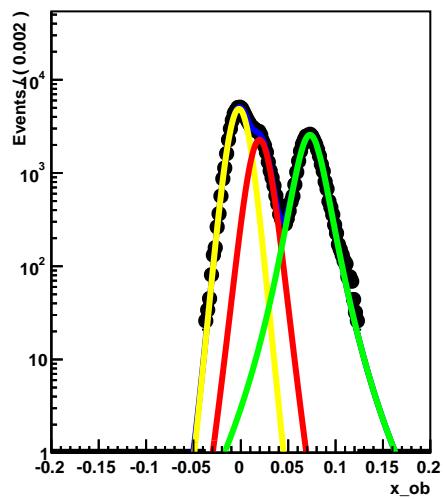
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.20-2.40] | $\eta$ | [0.4-0.6]



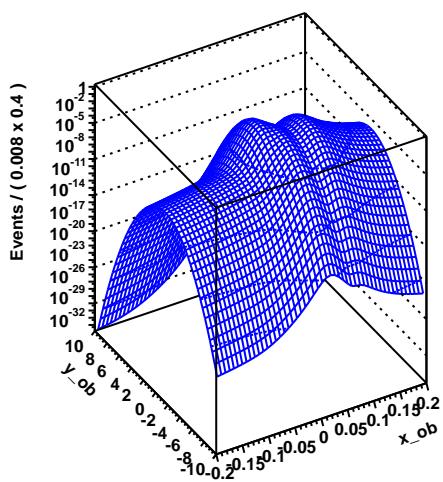
Pi nSigmaDEdx p[2.20-2.40]



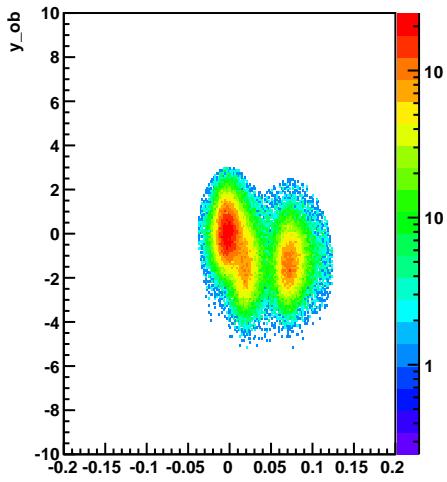
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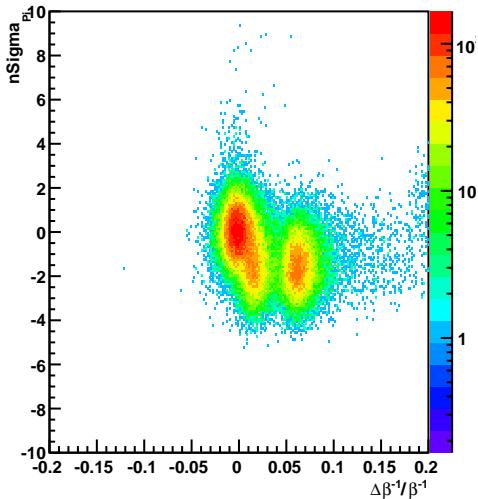
Histogram of hh\_sig\_x\_ob\_y\_ob



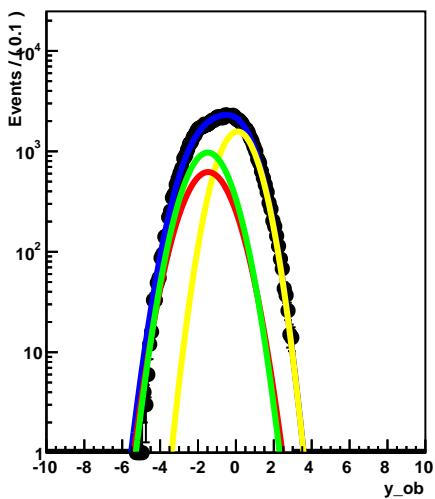
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



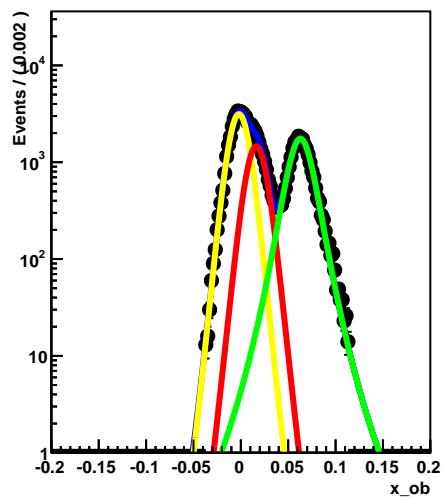
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.40-2.60] | $\eta$ | [0.4-0.6]



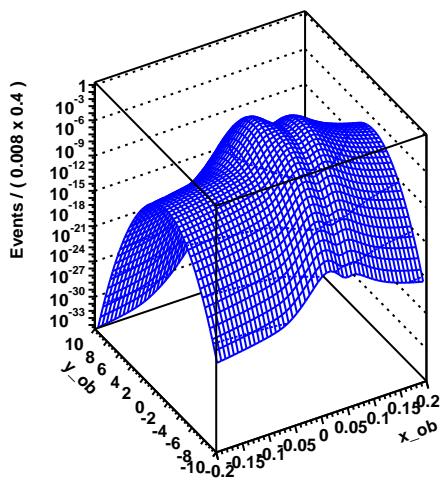
Pi nSigmaDEdx p[2.40-2.60]



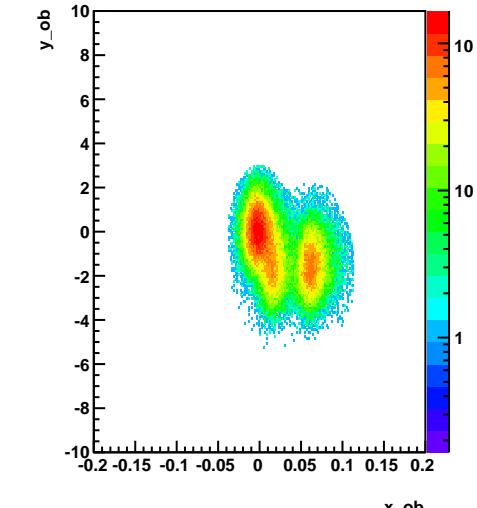
Pi dlnvBeta p[2.40-2.60]



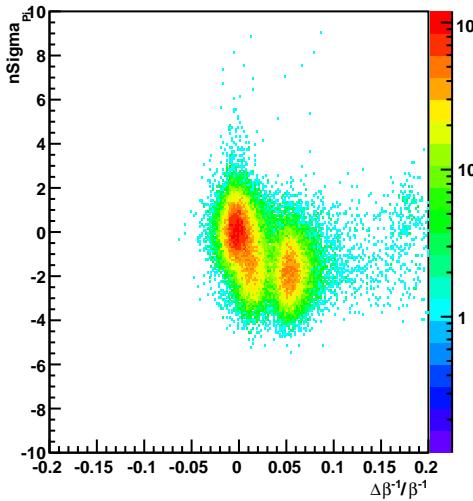
Histogram of hh\_sig\_x\_ob\_y\_ob



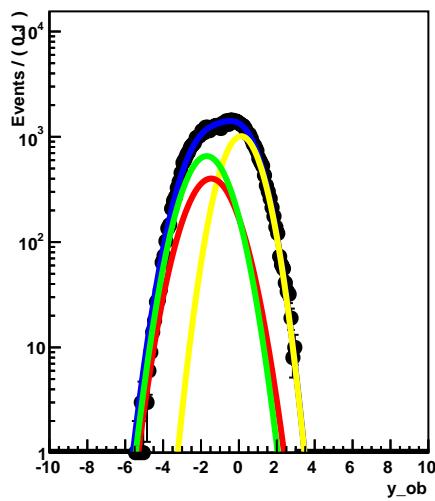
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



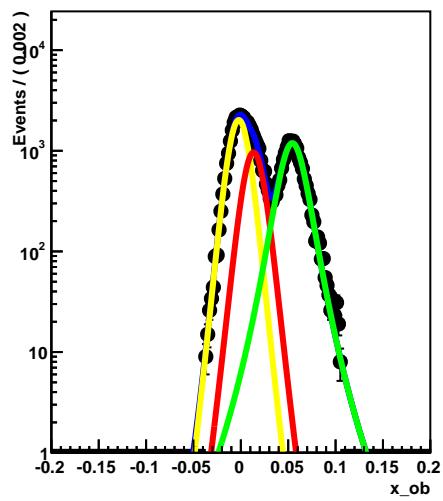
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.60-2.80] | $\eta$ | [0.4-0.6]



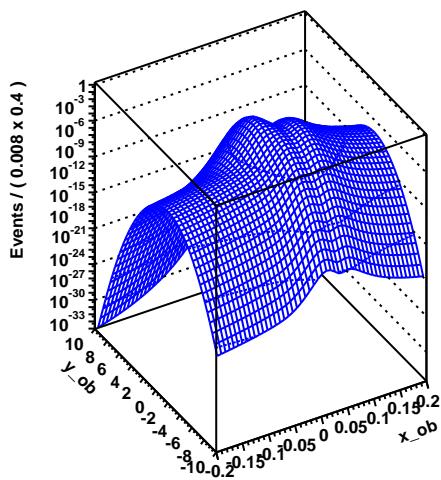
Pi nSigmaDEdx p[2.60-2.80]



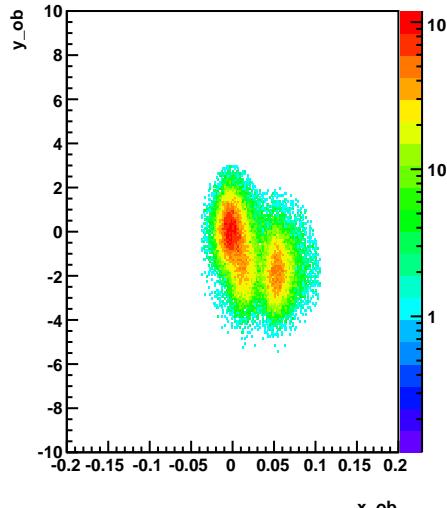
Pi dlnvBeta p[2.60-2.80]



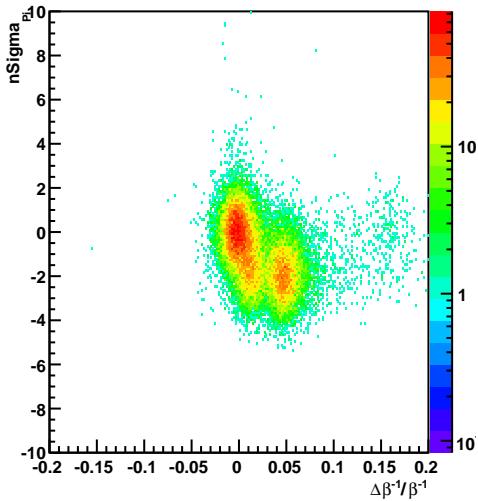
Histogram of hh\_sig\_x\_ob\_y\_ob



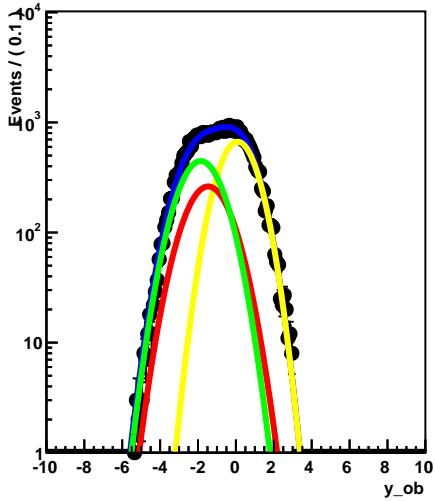
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



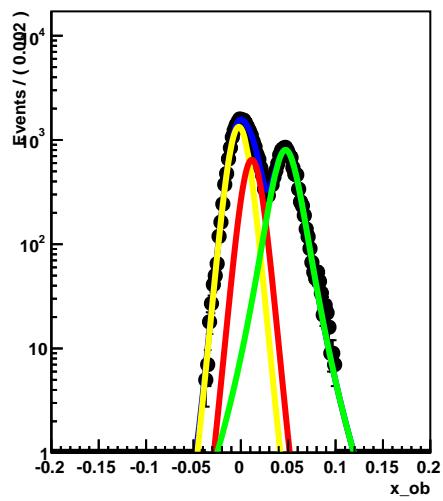
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.80-3.00]  $|\eta|$  [0.4-0.6]



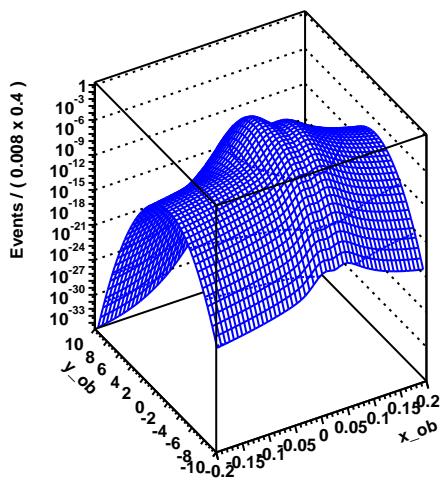
Pi nSigmaDEdx p[2.80-3.00]



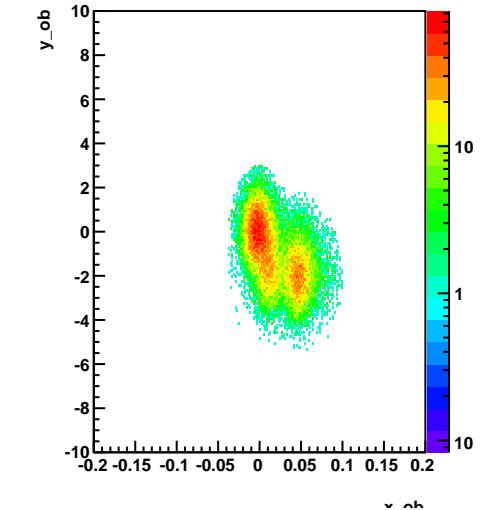
Pi dInvBeta p[2.80-3.00]



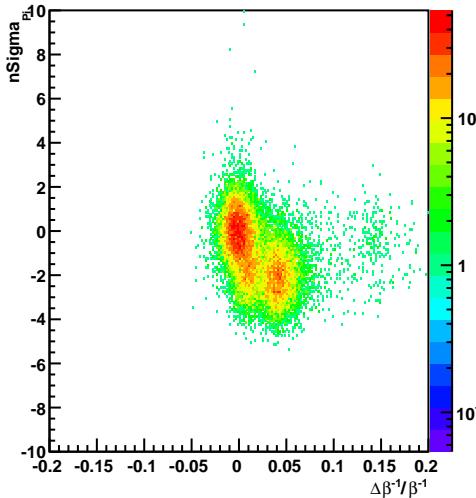
Histogram of hh\_sig\_x\_ob\_y\_ob



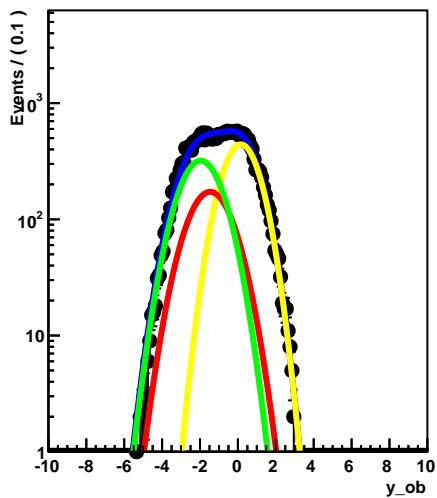
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



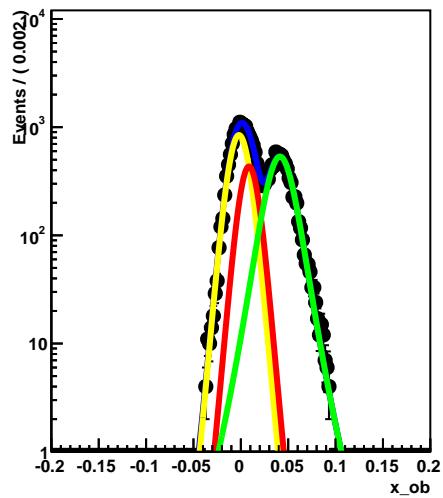
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.00-3.20] | $\eta$ | [0.4-0.6]



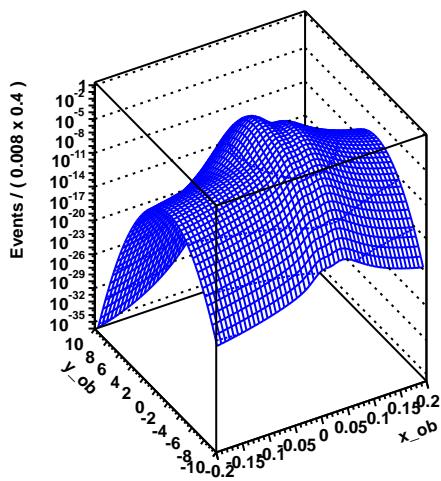
Pi nSigmaDEdx p[3.00-3.20]



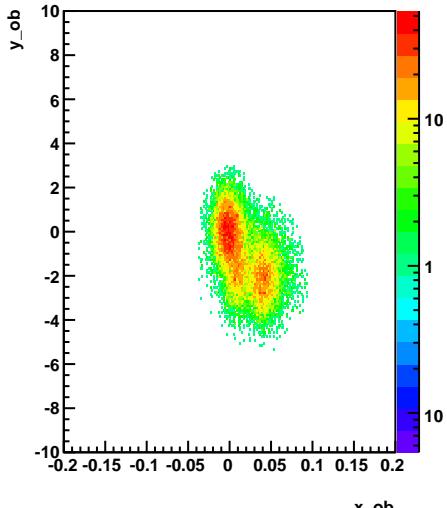
Pi dlnvBeta p[3.00-3.20]



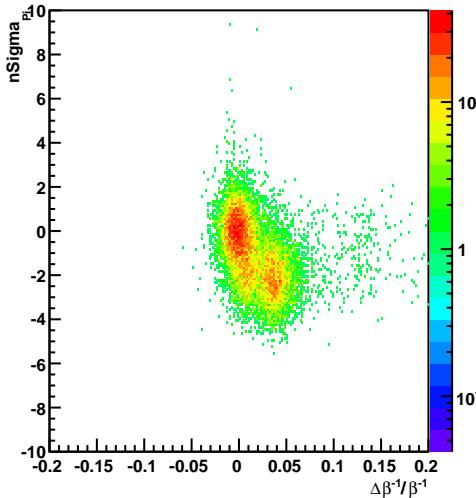
Histogram of hh\_sig\_x\_ob\_y\_ob



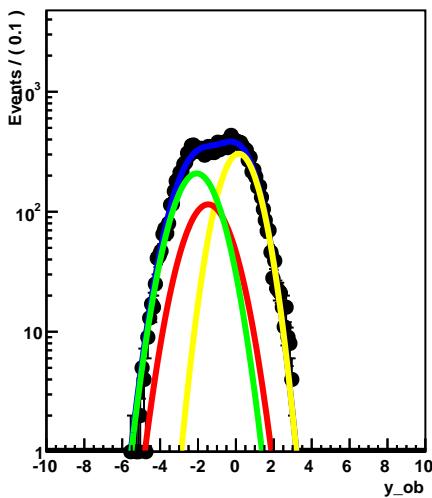
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



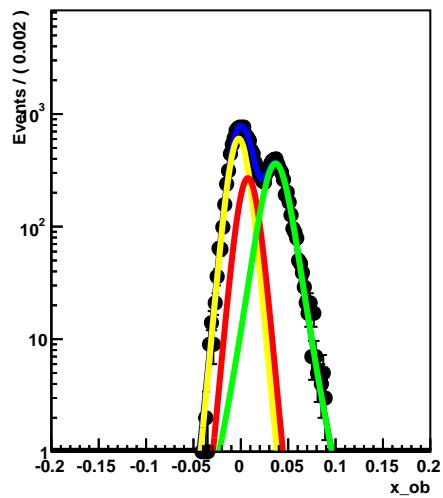
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.20-3.40] | $\eta$ | [0.4-0.6]



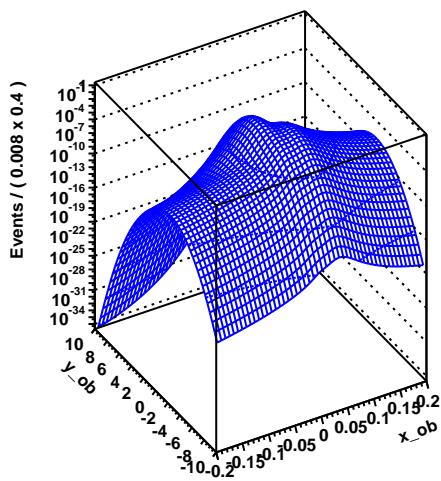
Pi nSigmaDEdx p[3.20-3.40]



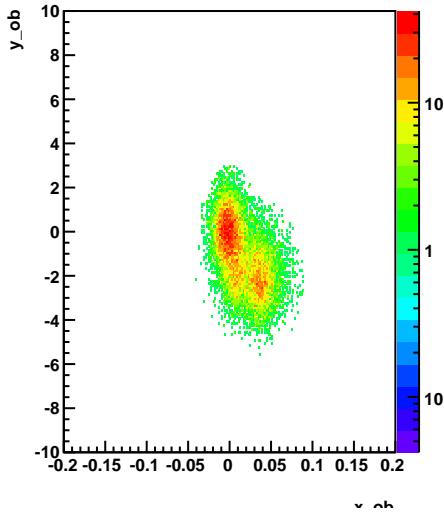
Pi dInvBeta p[3.20-3.40]



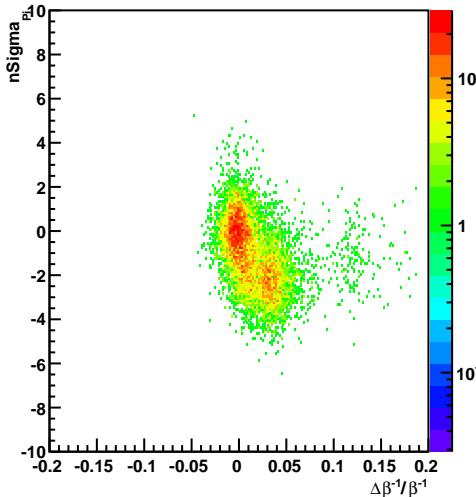
Histogram of hh\_sig\_x\_ob\_y\_ob



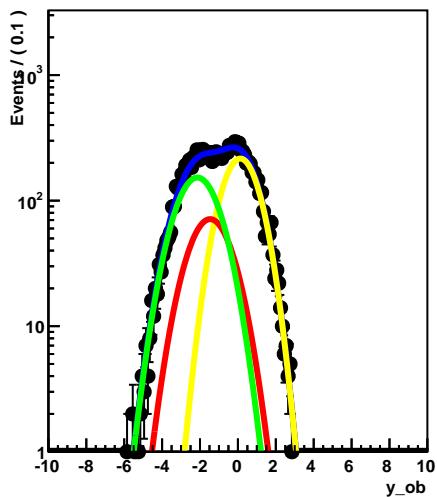
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



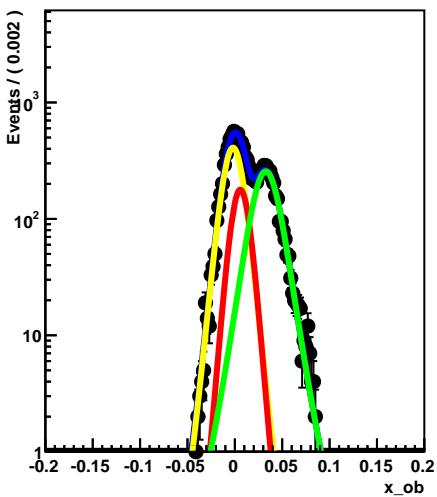
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.40-3.60] | $\eta$ | [0.4-0.6]



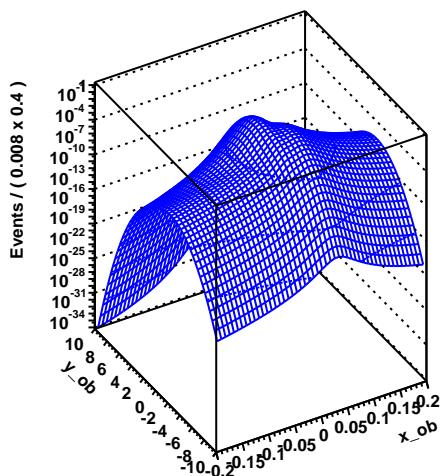
Pi nSigmaDEdx p[3.40-3.60]



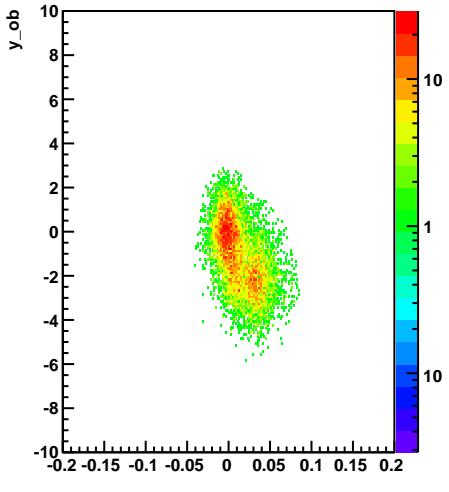
Pi dInvBeta p[3.40-3.60]



Histogram of hh\_sig\_x\_ob\_y\_ob

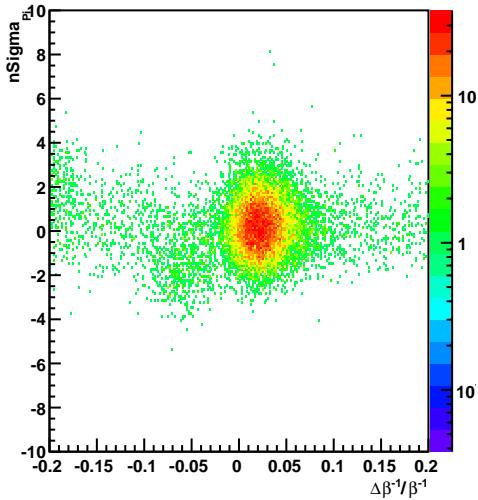


Histogram of hh\_data\_Pi\_x\_ob\_y\_ob

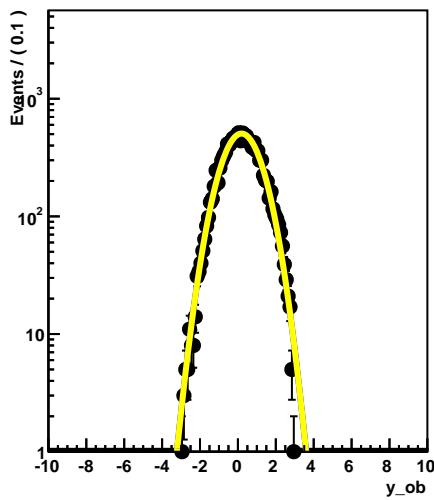




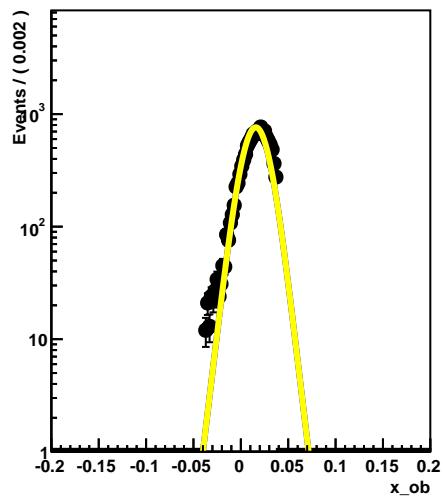
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.10-0.20] | $\eta$ | [0.6-0.8]



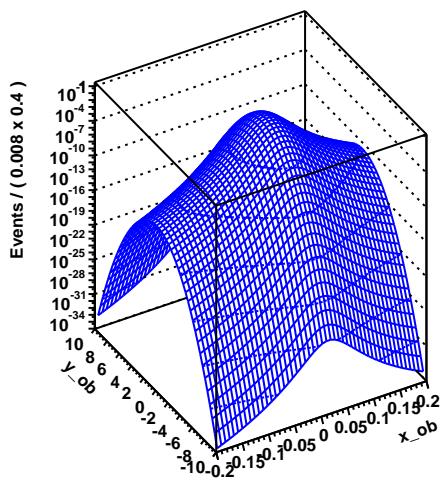
Pi nSigmaDEdx p[0.10-0.20]



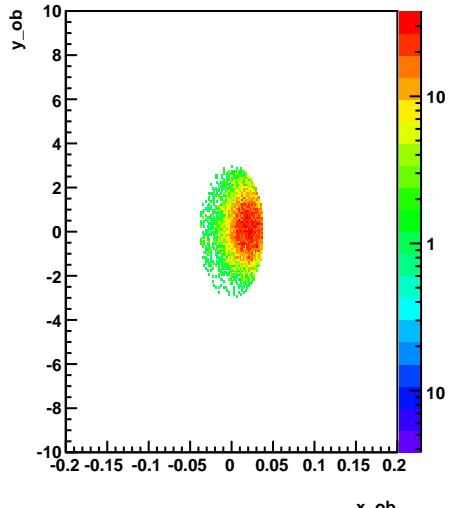
Pi dlnvBeta p[0.10-0.20]



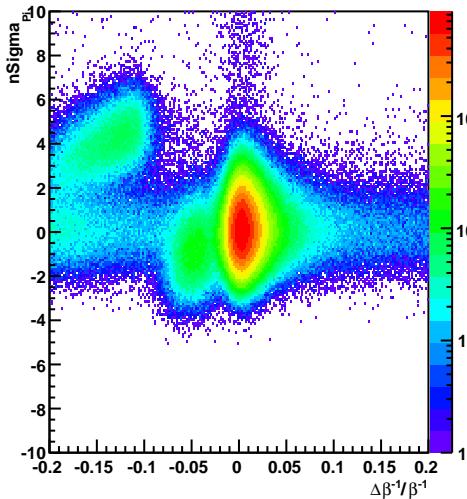
Histogram of hh\_sig\_x\_ob\_y\_ob



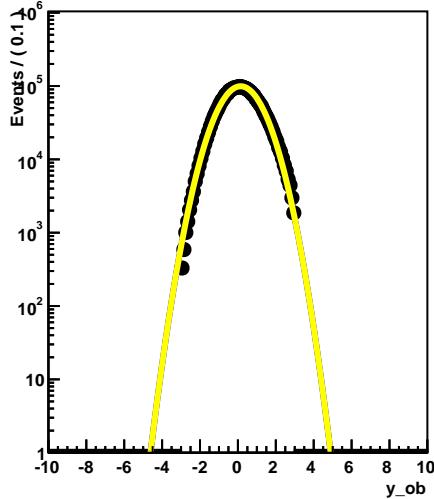
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



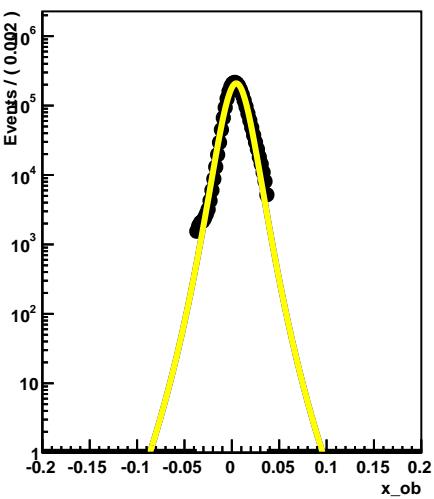
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.6-0.8]



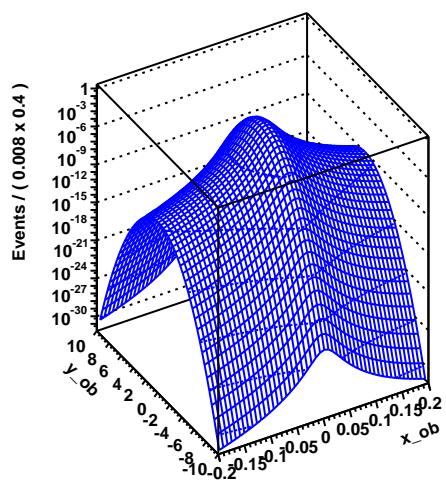
Pi nSigmaDEdx p[0.20-0.30]



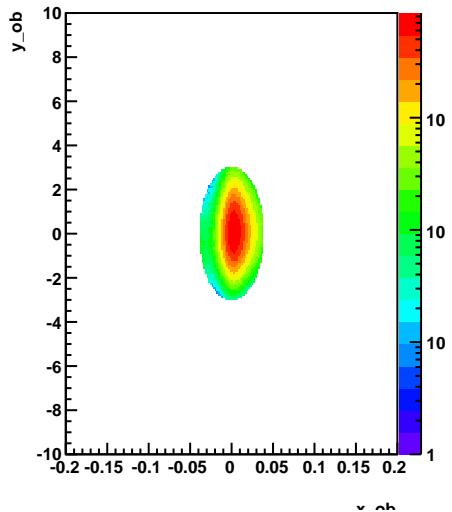
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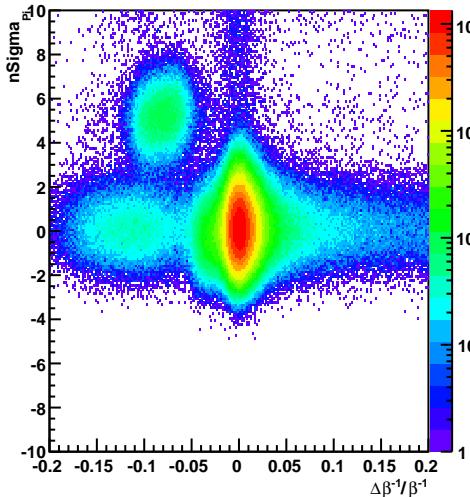
Histogram of hh\_sig\_x\_ob\_y\_ob



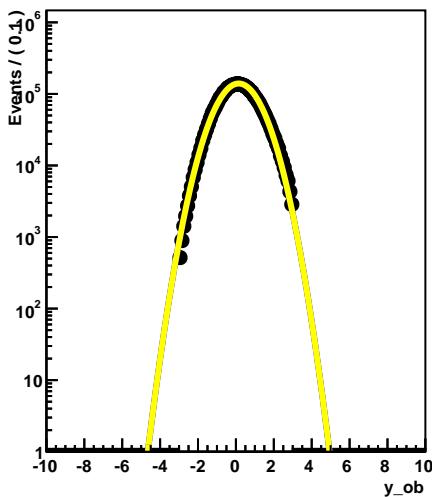
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



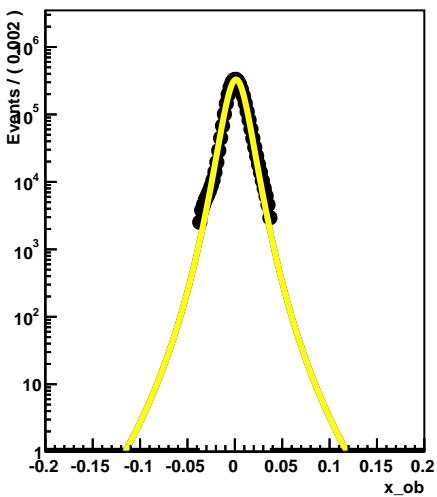
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.6-0.8]



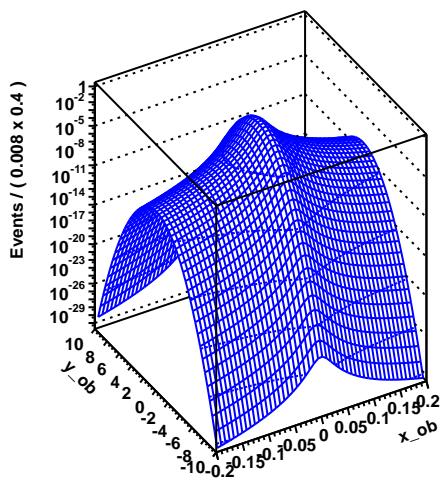
Pi nSigmaDEdx p[0.30-0.40]



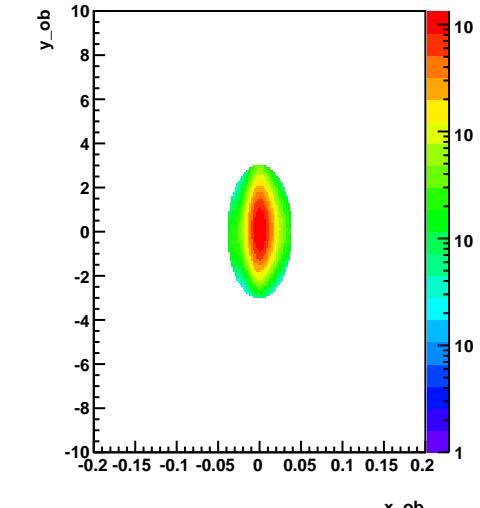
Pi dInvBeta p[0.30-0.40]



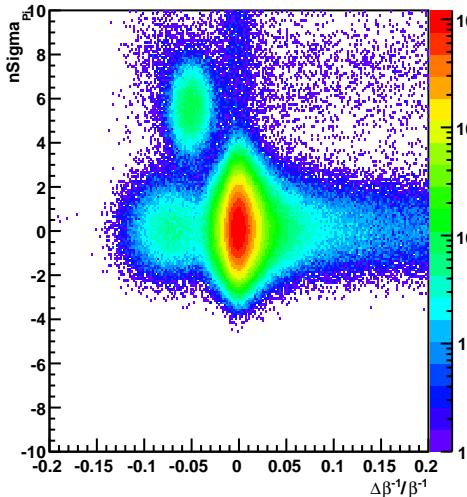
Histogram of hh\_sig\_x\_ob\_y\_ob



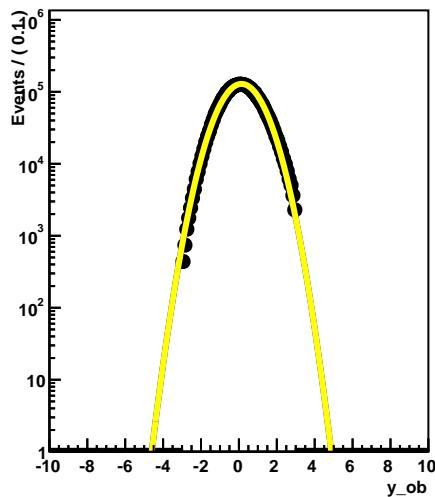
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



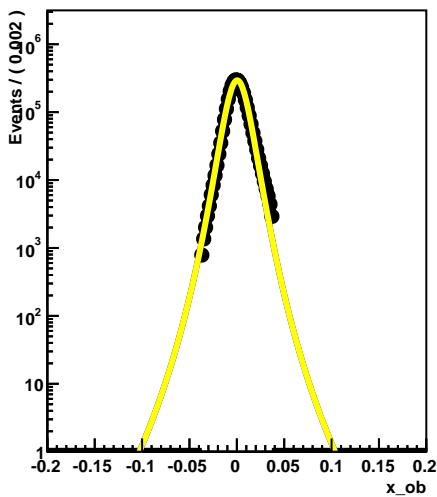
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] |η| [0.6-0.8]



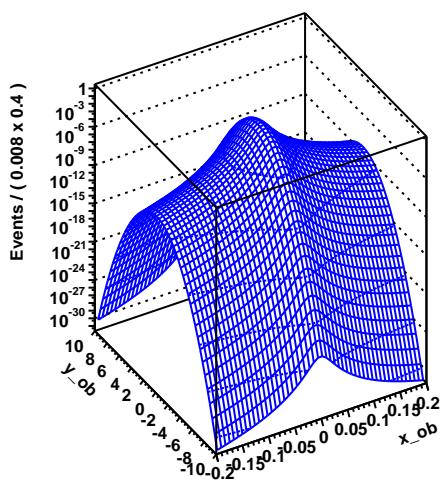
Pi nSigmaDEdx p[0.40-0.50]



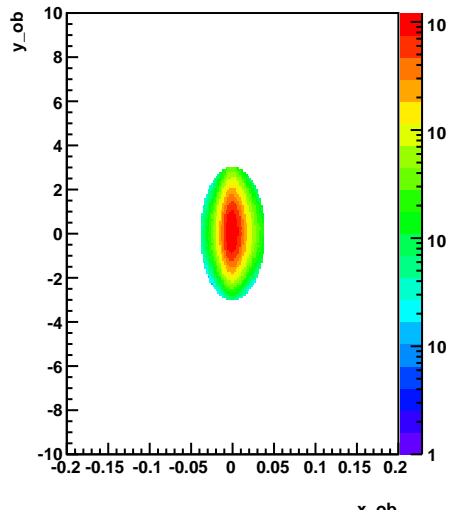
Pi dInvBeta p[0.40-0.50]



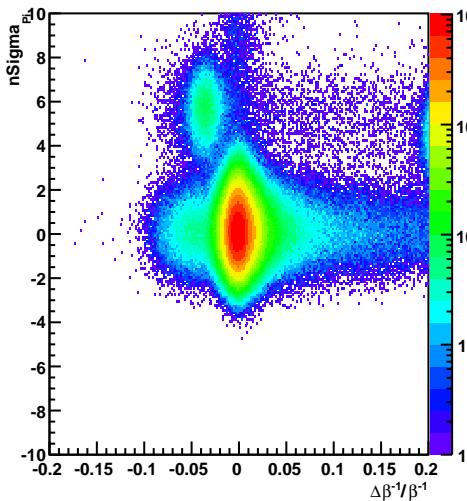
Histogram of hh\_sig\_x\_ob\_y\_ob



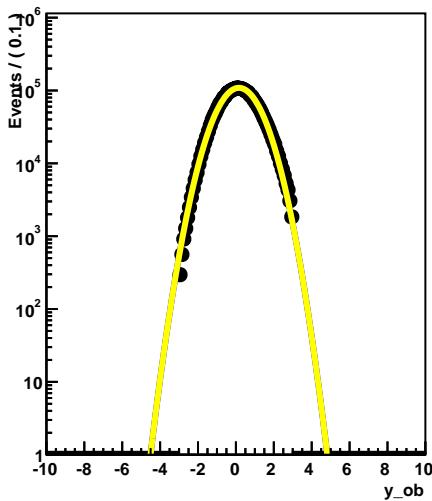
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



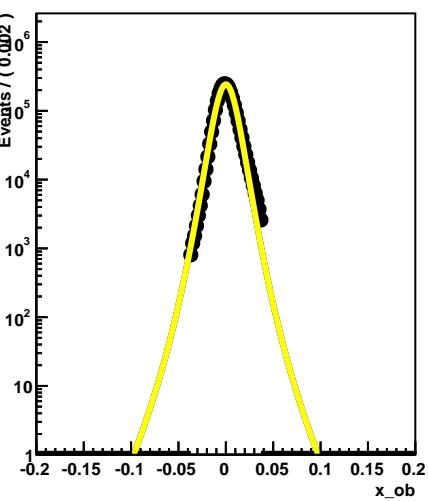
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.6-0.8]



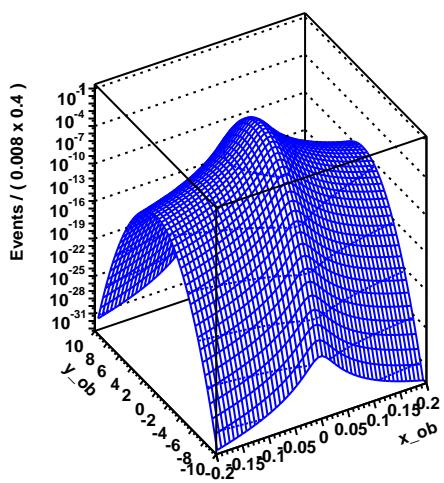
Pi nSigmaDEdx p[0.50-0.60]



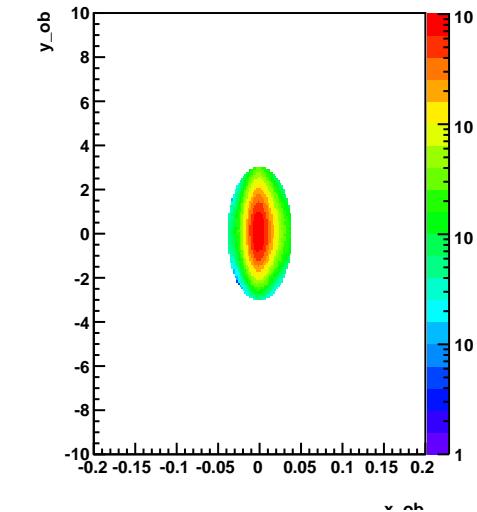
Pi dInvBeta p[0.50-0.60]



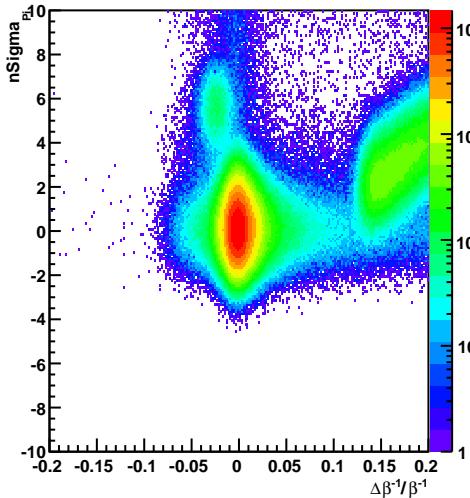
Histogram of hh\_sig\_x\_ob\_y\_ob



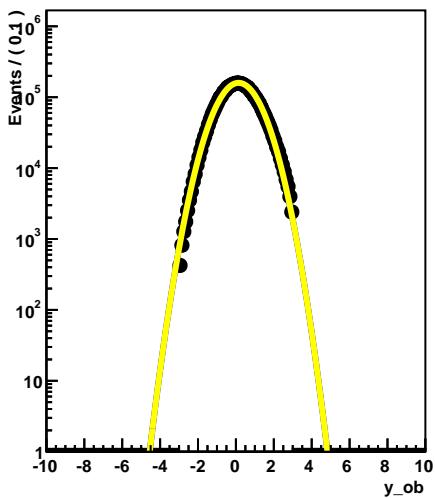
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



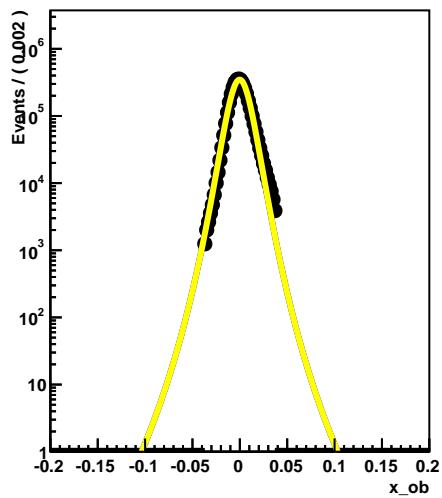
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] |η| [0.6-0.8]



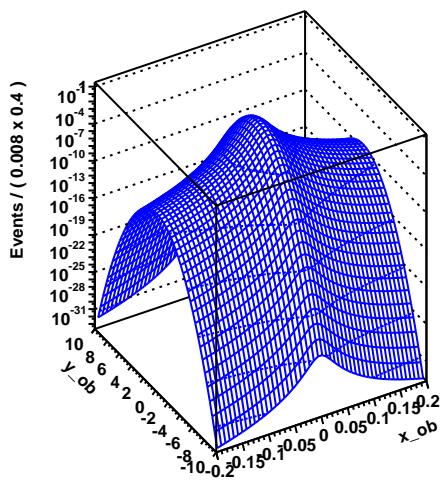
Pi nSigmaDEdx p[0.60-0.80]



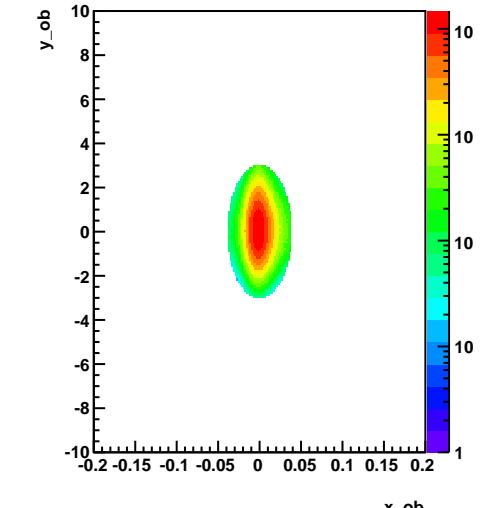
Pi dInvBeta p[0.60-0.80]



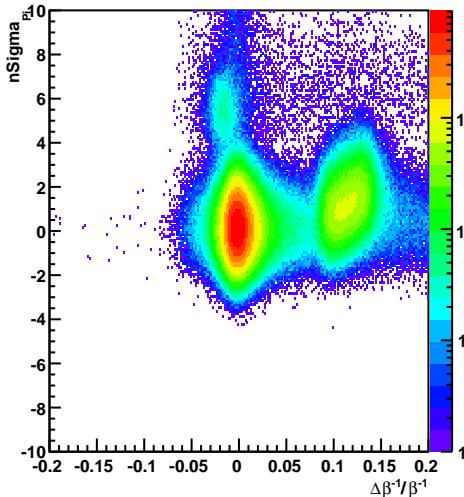
Histogram of hh\_sig\_x\_ob\_y\_ob



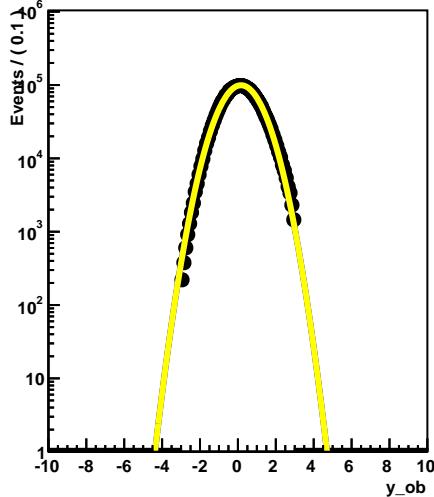
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



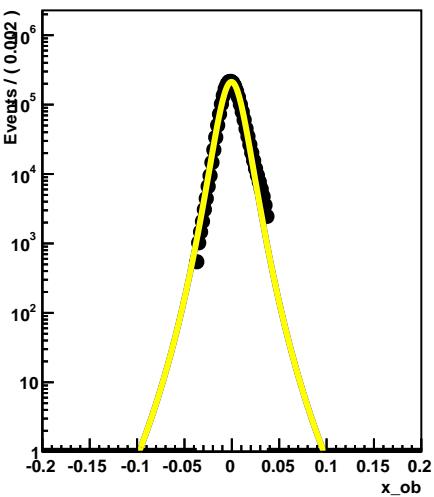
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] |η| [0.6-0.8]



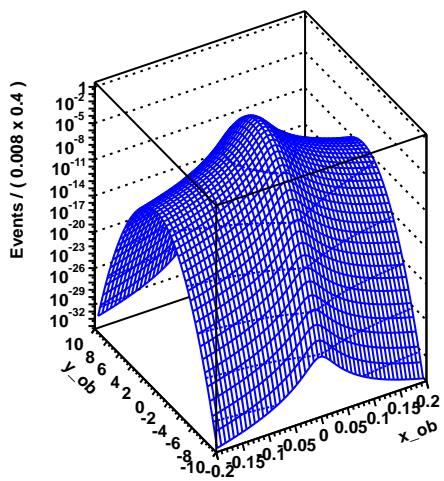
Pi nSigmaDEdx p[0.80-1.00]



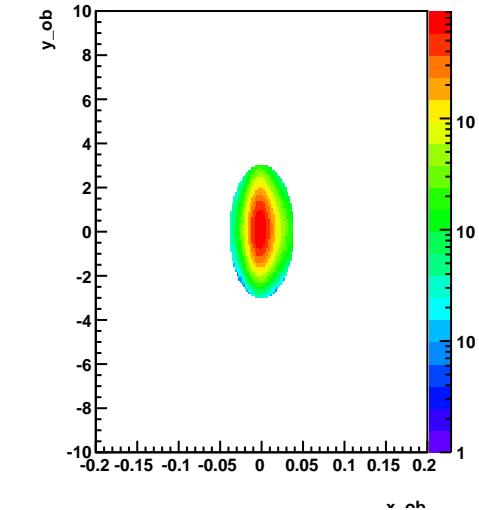
Pi dlnvBeta p[0.80-1.00]



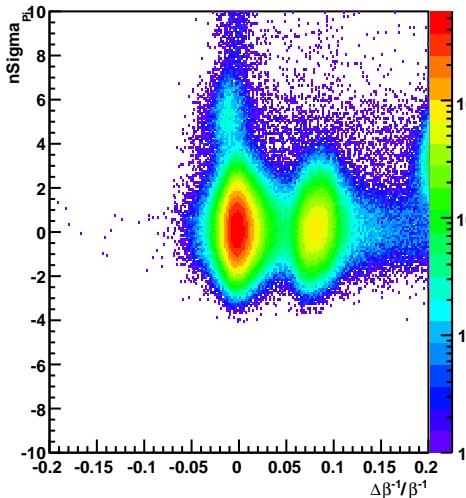
Histogram of hh\_sig\_x\_ob\_y\_ob



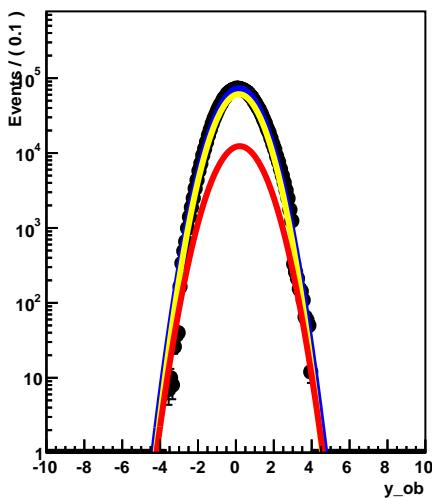
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



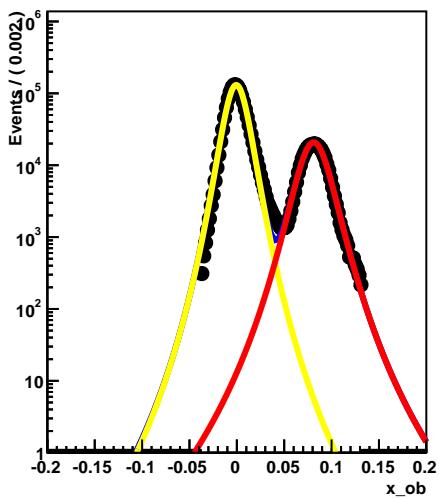
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] | $\eta$ | [0.6-0.8]



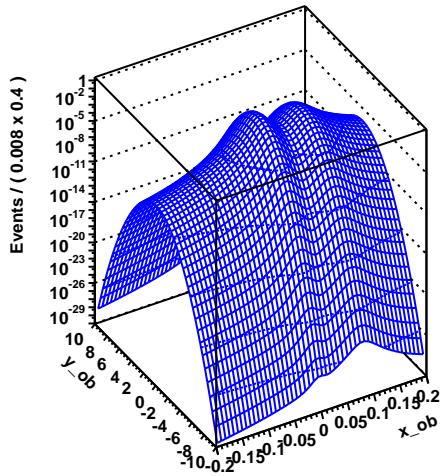
Pi nSigmaDEdx p[1.00-1.20]



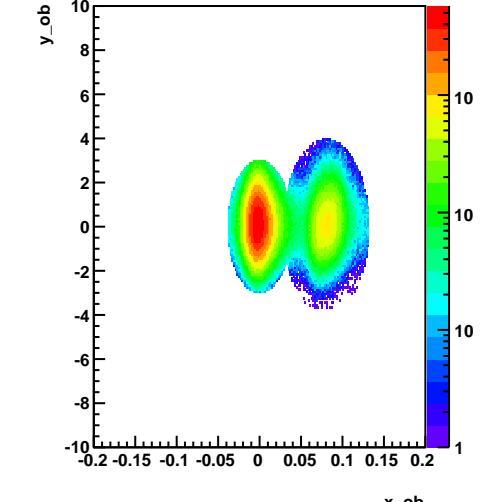
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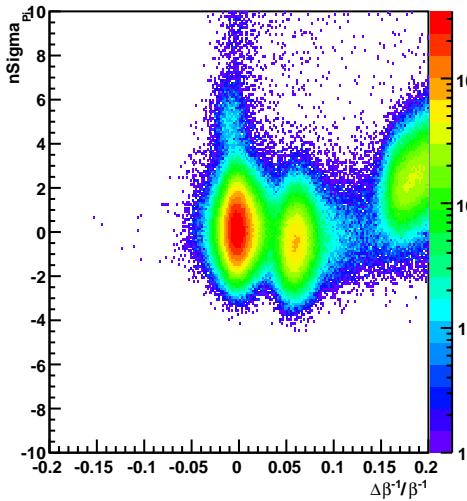
Histogram of hh\_sig\_x\_ob\_y\_ob



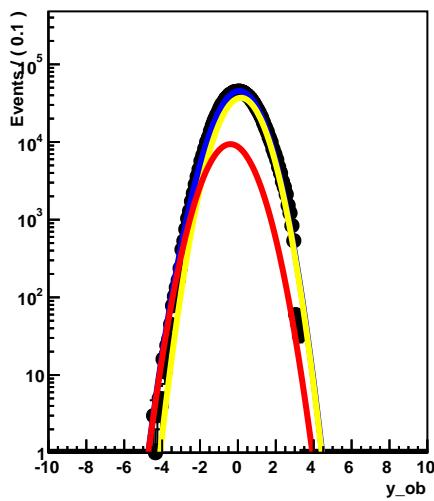
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



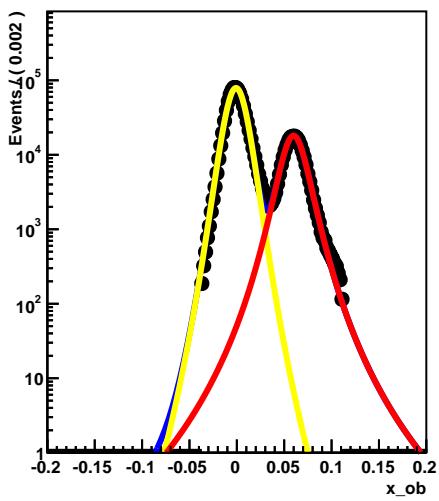
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40]  $|\eta|$  [0.6-0.8]



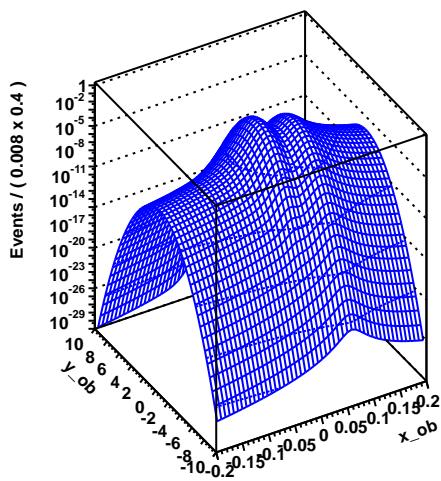
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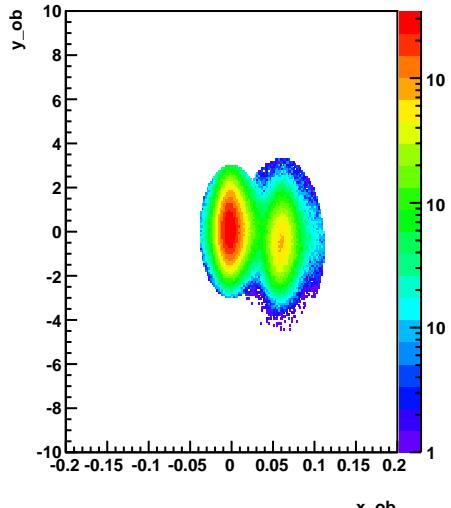
Pi dlnvBeta p[1.20-1.40]



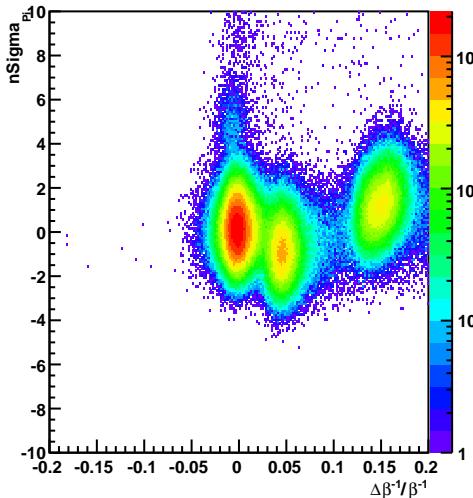
Histogram of hh\_sig\_x\_ob\_y\_ob



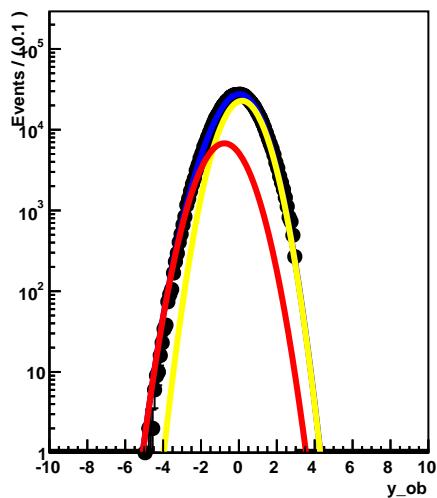
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



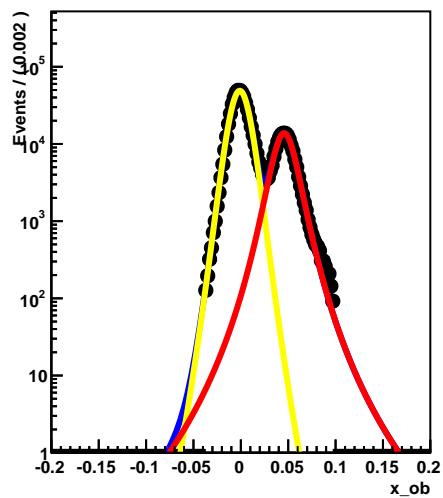
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] |η| [0.6-0.8]



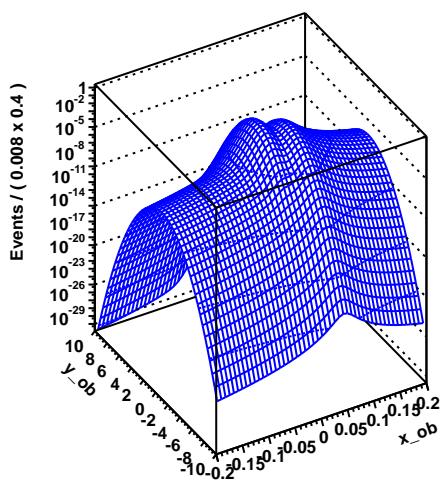
Pi nSigmaDEdx p[1.40-1.60]



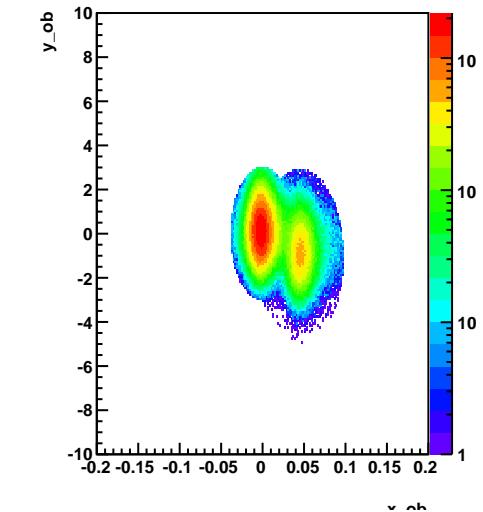
Pi dInvBeta p[1.40-1.60]



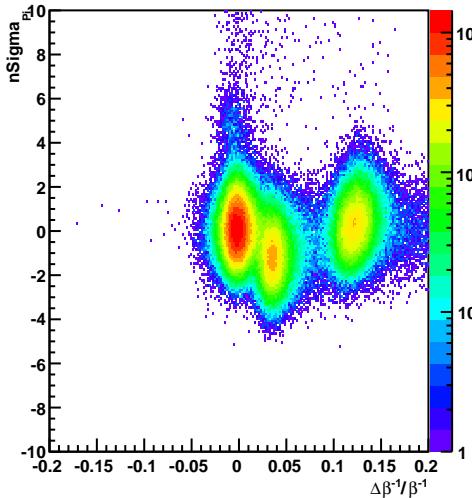
Histogram of hh\_sig\_x\_ob\_y\_ob



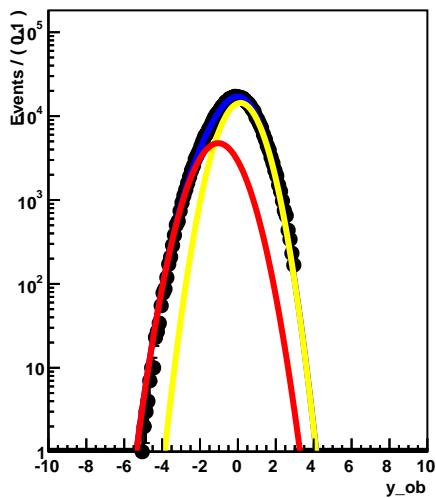
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



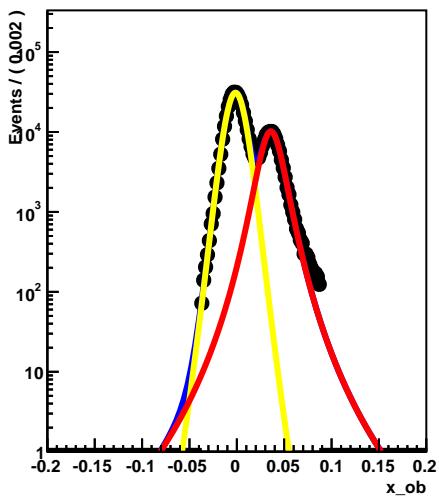
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] |η| [0.6-0.8]



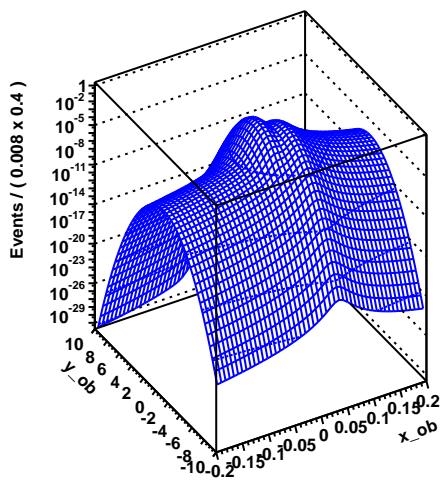
Pi nSigmaDEdx p[1.60-1.80]



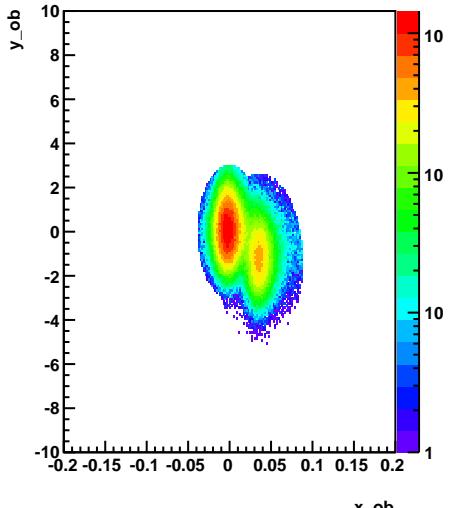
Pi dlnvBeta p[1.60-1.80]



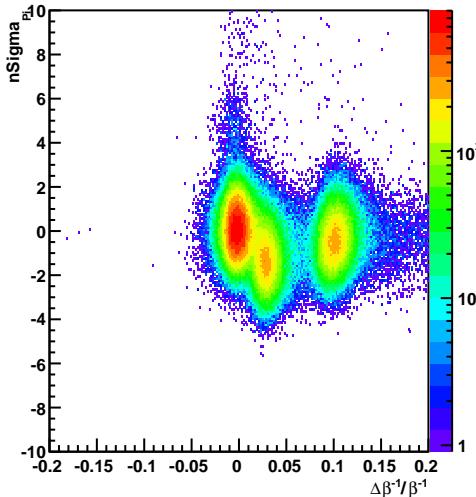
Histogram of hh\_sig\_x\_ob\_y\_ob



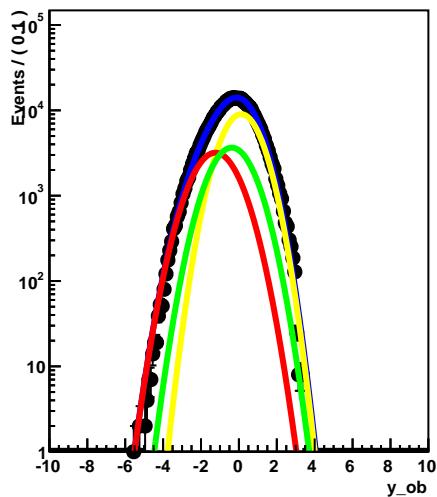
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



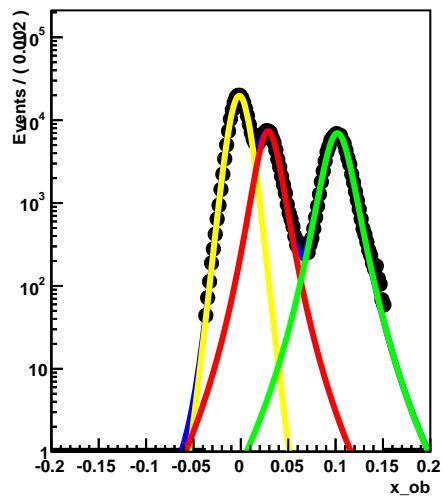
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.80-2.00] |η| [0.6-0.8]



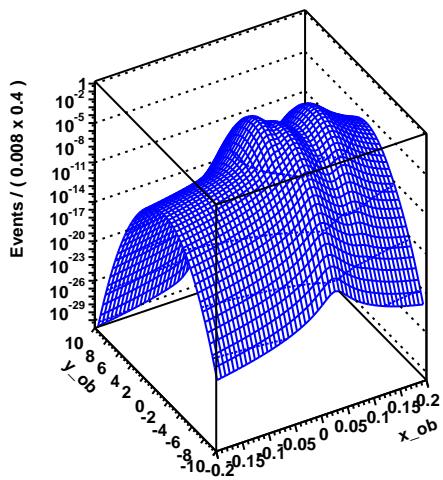
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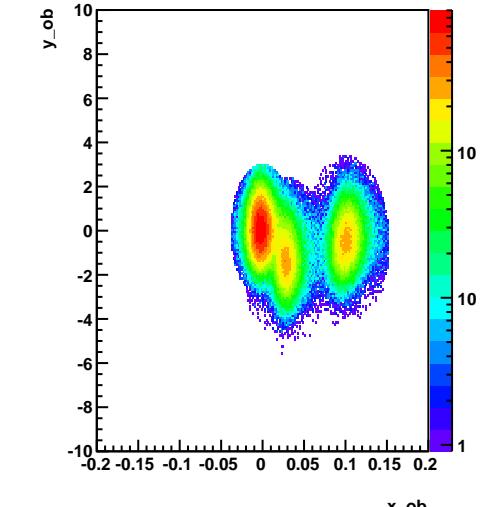
Pi dlnvBeta p[1.80-2.00]



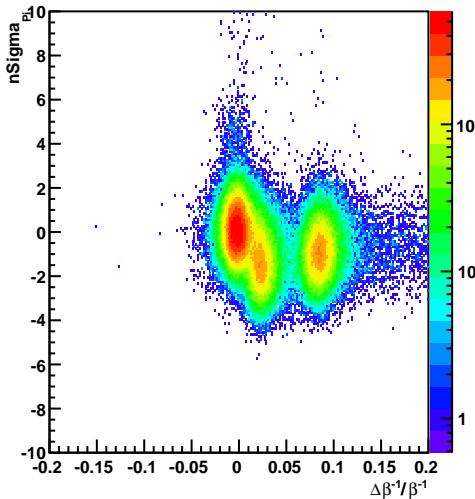
Histogram of hh\_sig\_x\_ob\_y\_ob



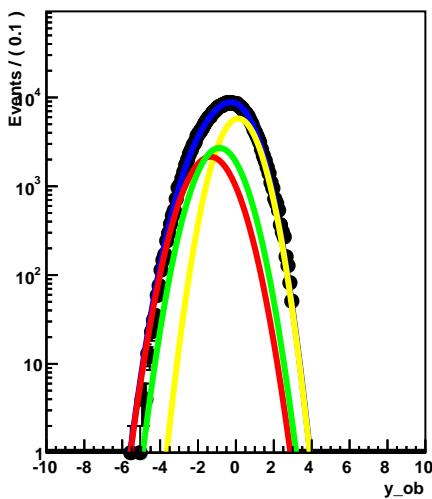
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



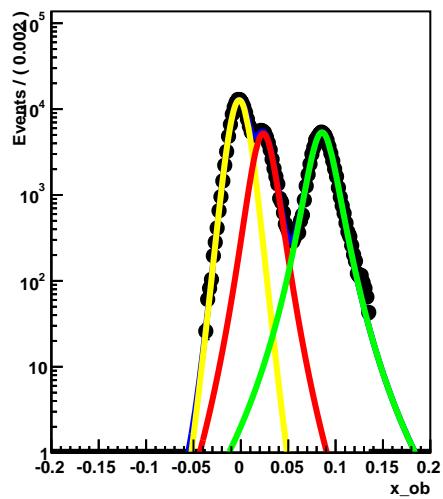
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.00-2.20] |η| [0.6-0.8]



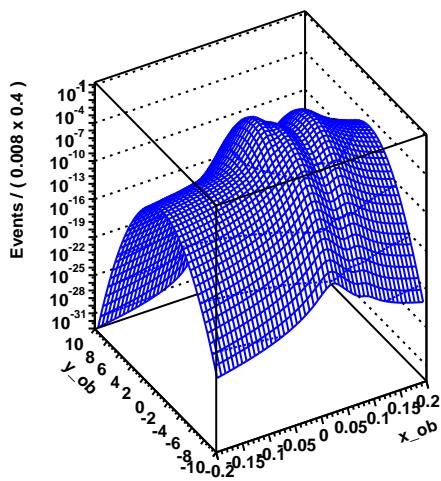
Pi nSigmaDEdx p[2.00-2.20]



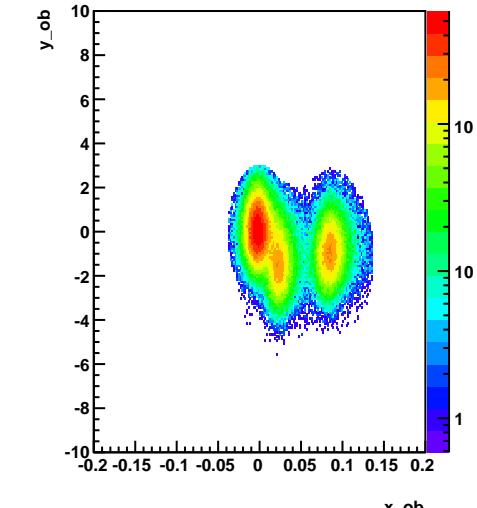
Pi dlnvBeta p[2.00-2.20]



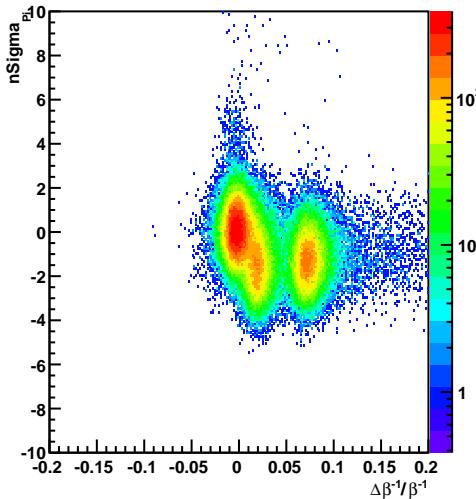
Histogram of hh\_sig\_x\_ob\_y\_ob



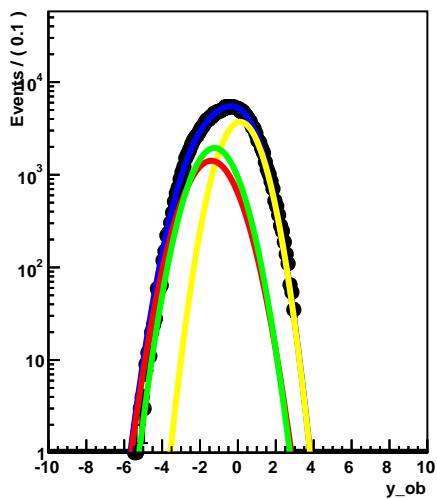
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



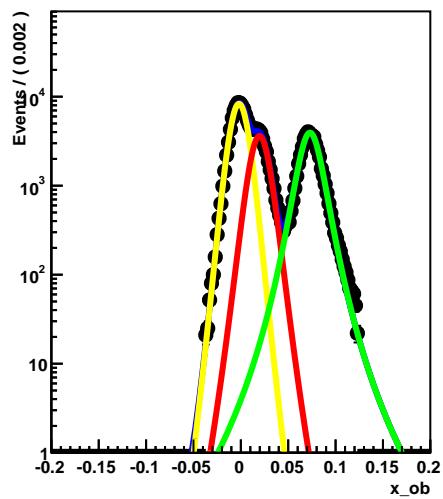
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.20-2.40] | $\eta$ | [0.6-0.8]



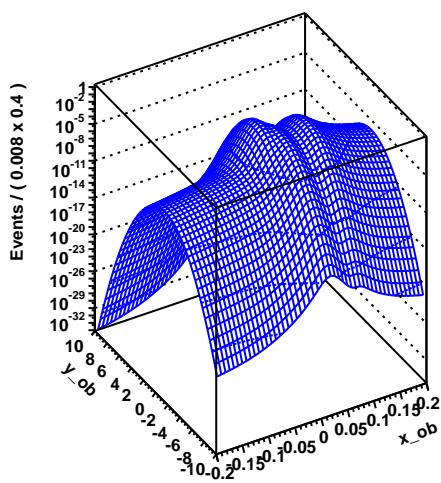
Pi nSigmaDEdx p[2.20-2.40]



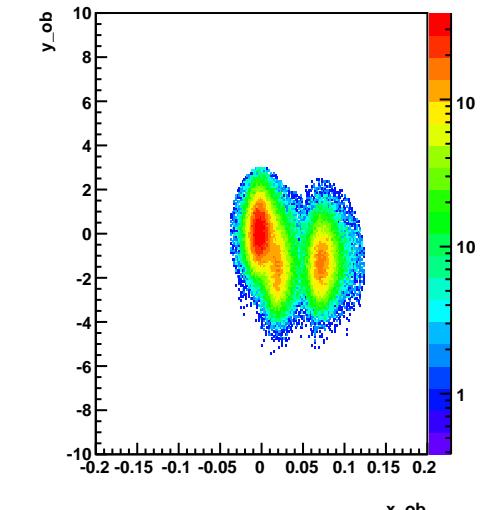
Pi dlnvBeta p[2.20-2.40]



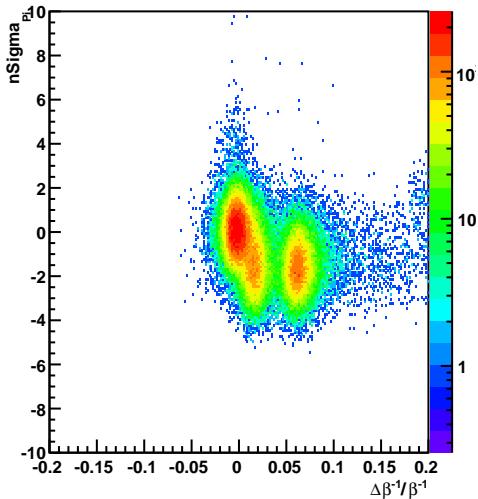
Histogram of hh\_sig\_x\_ob\_y\_ob



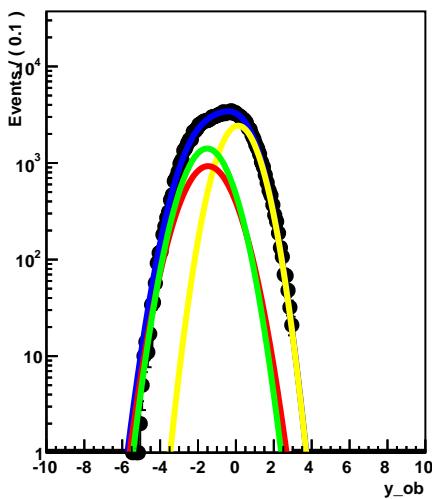
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



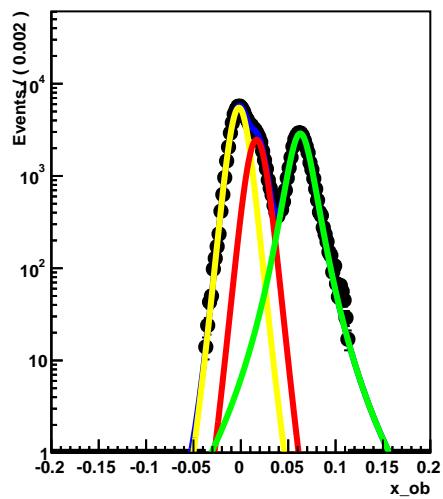
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.40-2.60]  $|\eta|$  [0.6-0.8]



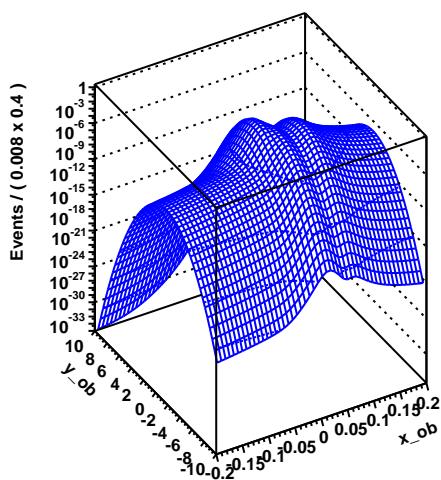
Pi nSigmaDEdx p[2.40-2.60]



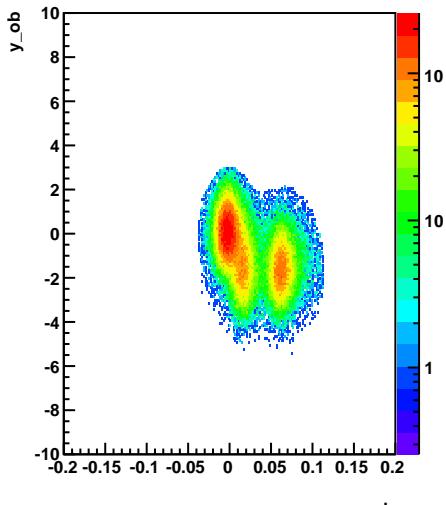
Pi dInvBeta p[2.40-2.60]



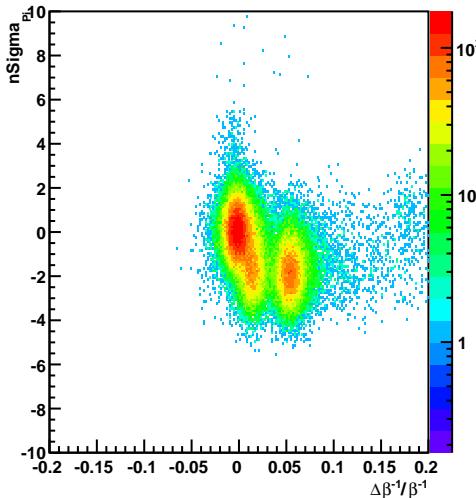
Histogram of hh\_sig\_x\_ob\_y\_ob



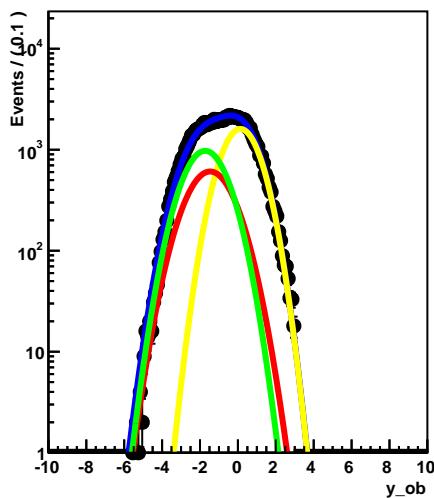
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



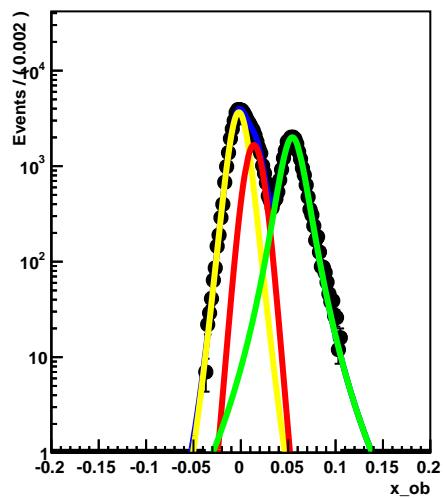
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.60-2.80] | $\eta$ | [0.6-0.8]



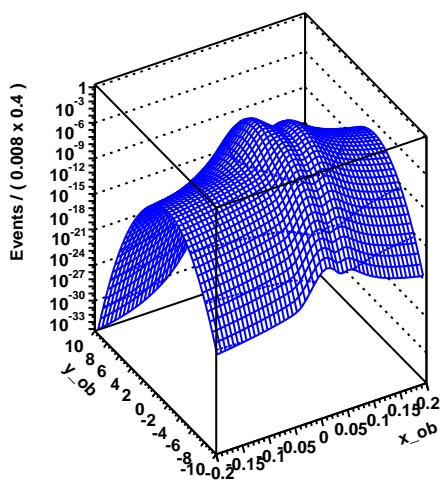
Pi nSigmaDEdx p[2.60-2.80]



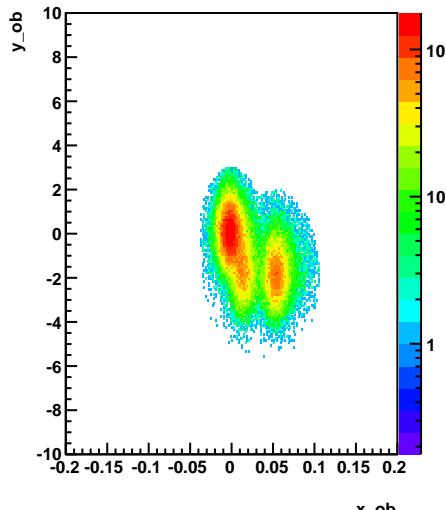
Pi dlnvBeta p[2.60-2.80]



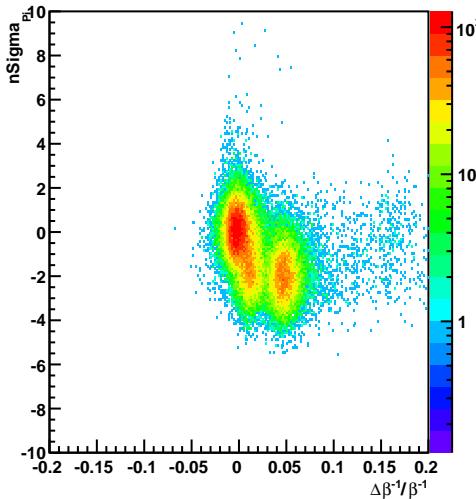
Histogram of hh\_sig\_x\_ob\_y\_ob



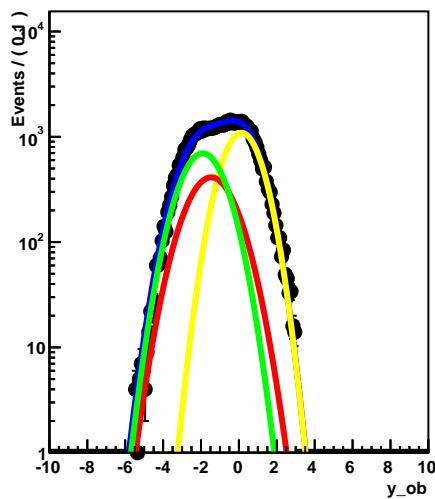
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



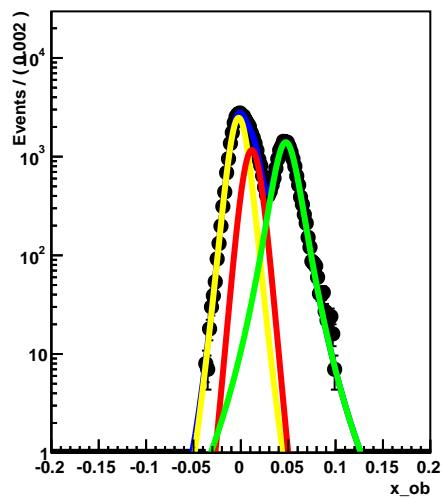
nσ vs.  $\Delta \beta^{-1}/\beta^{-1}$  p [2.80-3.00] |η| [0.6-0.8]



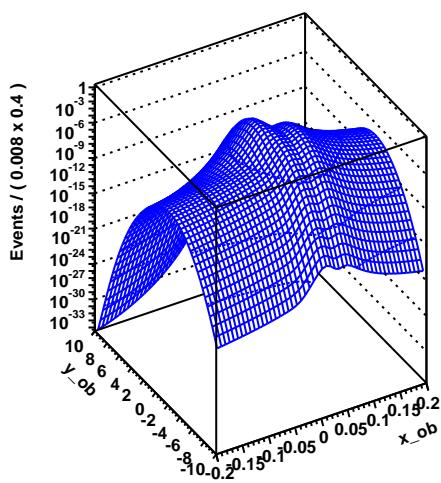
Pi nSigmaDEdx p[2.80-3.00]



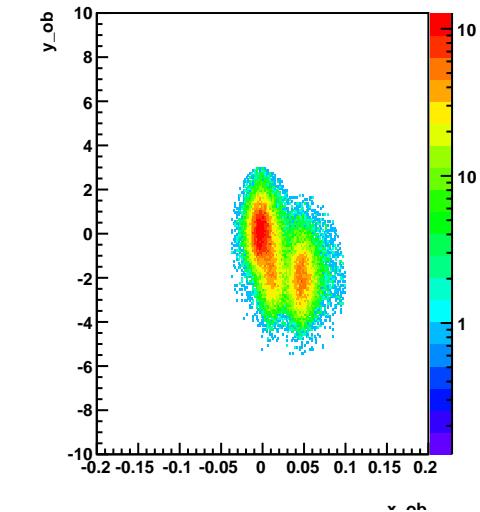
Pi dInvBeta p[2.80-3.00]



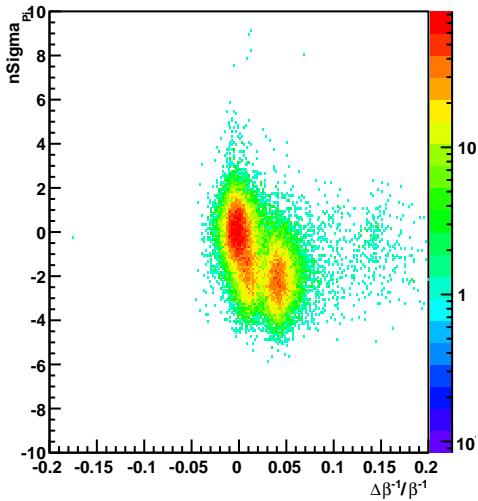
Histogram of hh\_sig\_x\_ob\_y\_ob



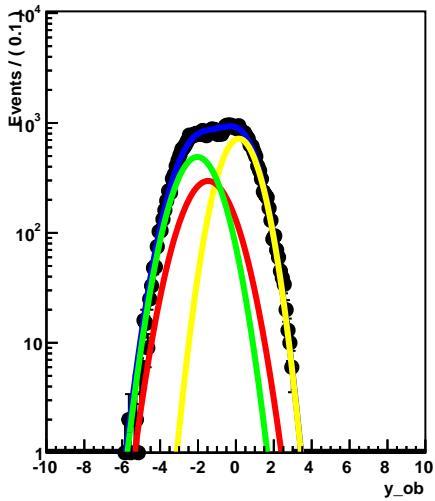
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



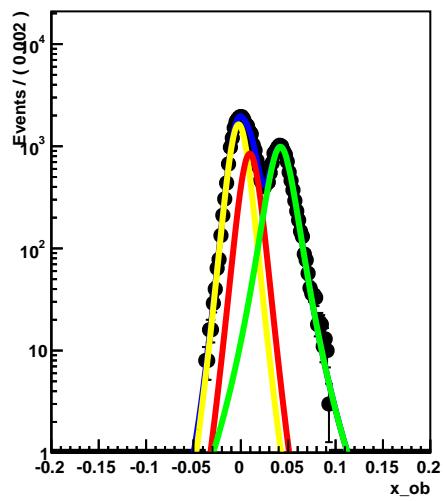
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.00-3.20] | $\eta$ | [0.6-0.8]



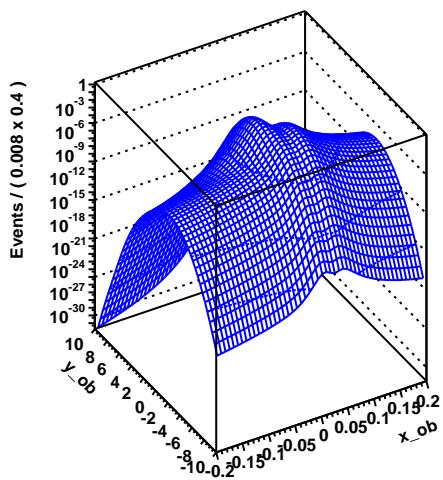
Pi nSigmaDEdx p[3.00-3.20]



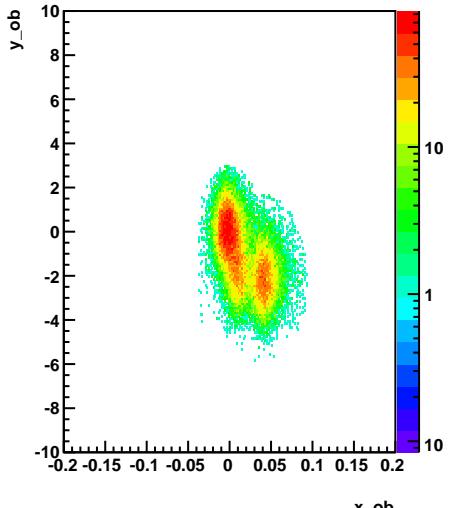
Pi dInvBeta p[3.00-3.20]



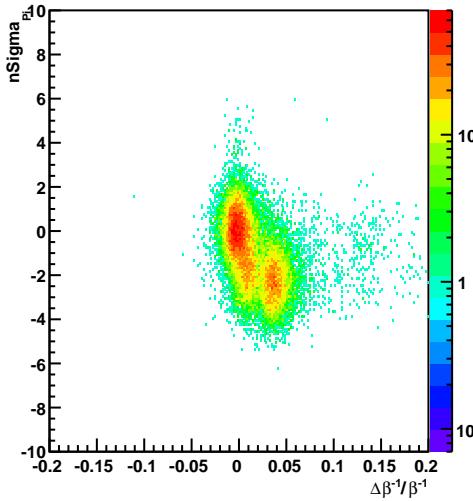
Histogram of hh\_sig\_x\_ob\_y\_ob



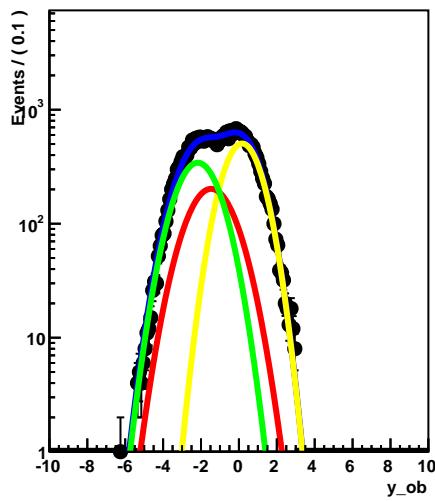
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



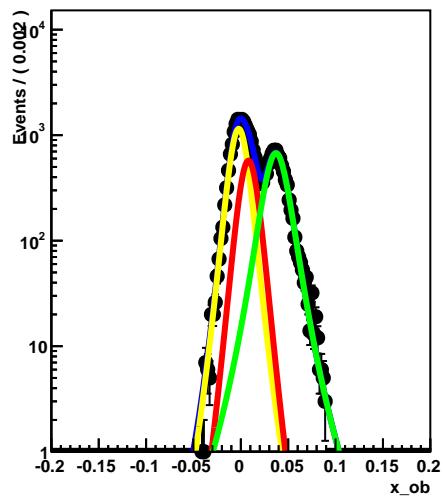
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.20-3.40] | $\eta$ | [0.6-0.8]



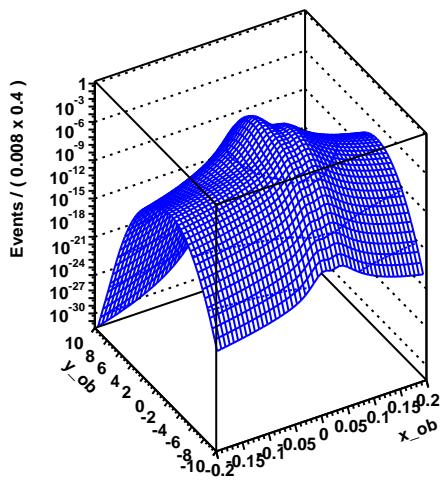
Pi nSigmaDEdx p[3.20-3.40]



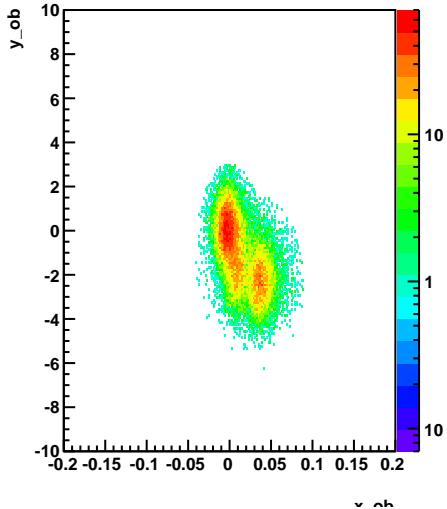
Pi dInvBeta p[3.20-3.40]



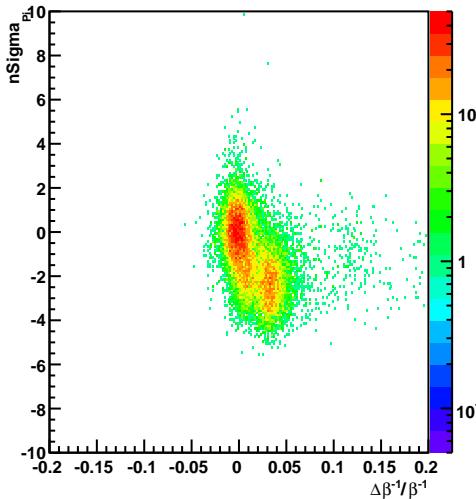
Histogram of hh\_sig\_x\_ob\_y\_ob



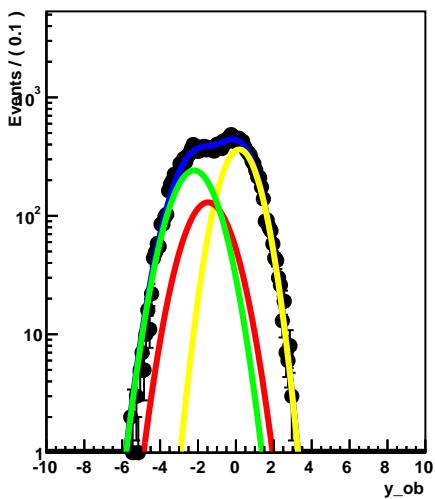
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



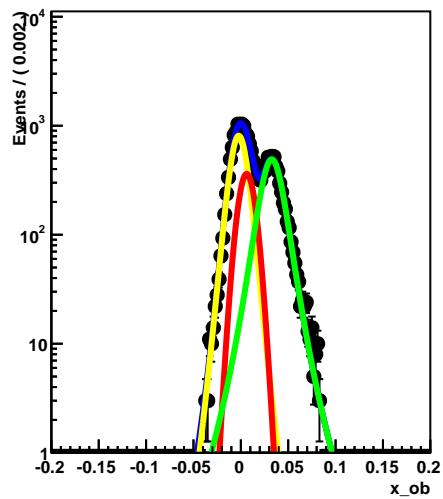
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.40-3.60] | $\eta$ | [0.6-0.8]



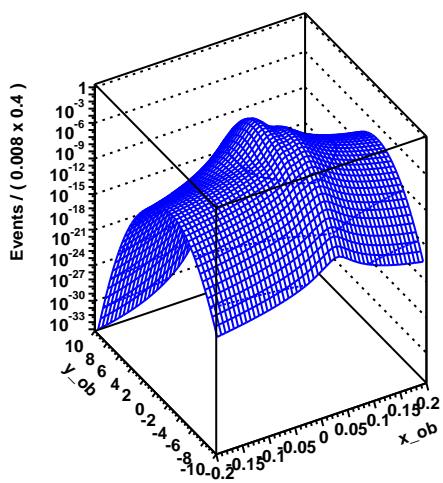
Pi nSigmaDEdx p[3.40-3.60]



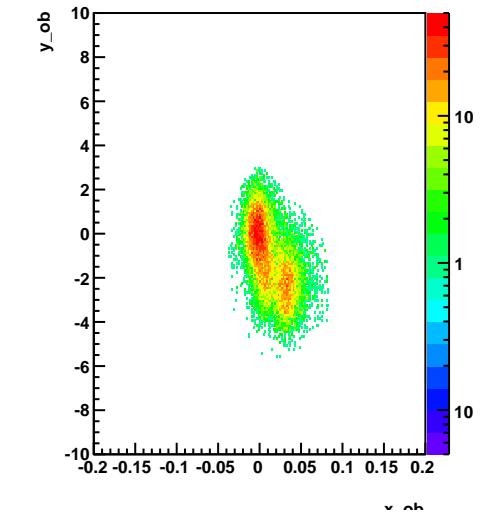
Pi dlnvBeta p[3.40-3.60]



Histogram of hh\_sig\_x\_ob\_y\_ob

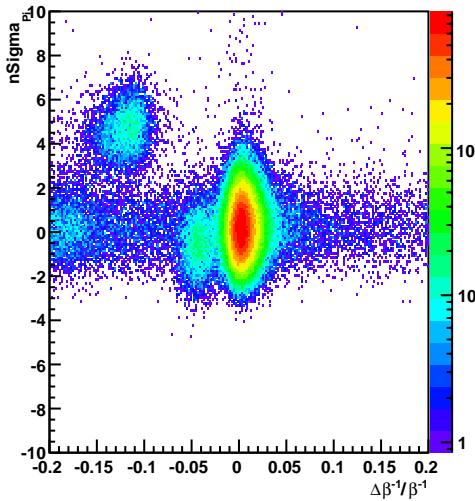


Histogram of hh\_data\_Pi\_x\_ob\_y\_ob

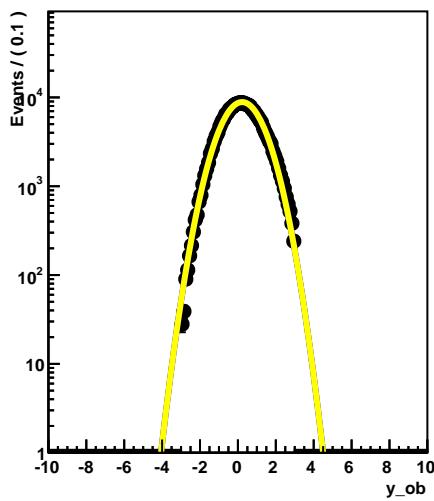




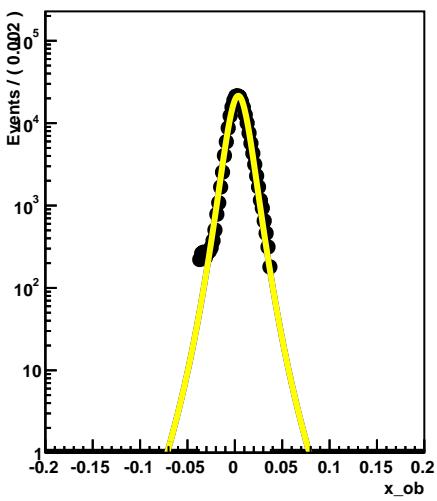
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.8-1.0]



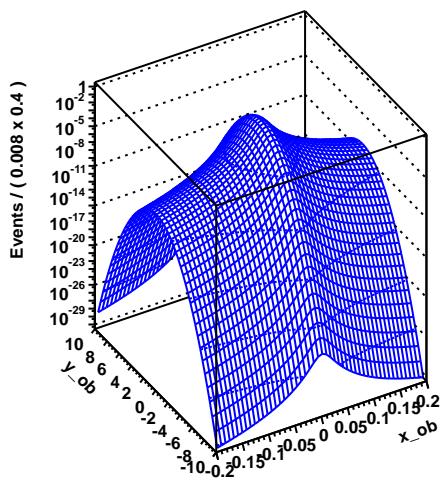
Pi nSigmaDEdx p[0.20-0.30]



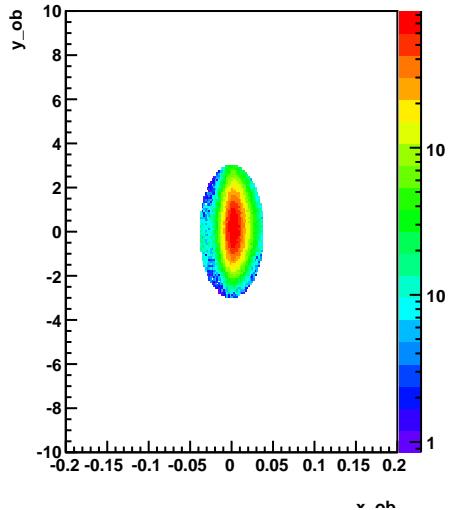
Pi dlnvBeta p[0.20-0.30]



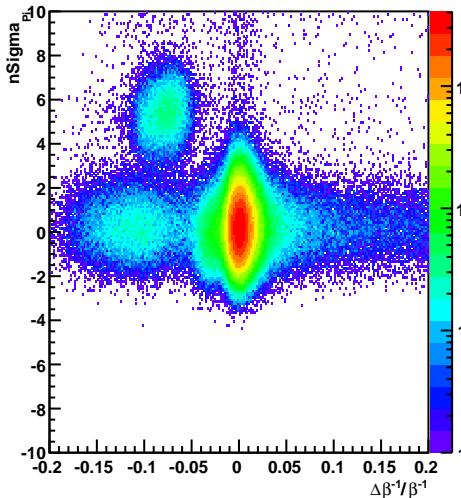
Histogram of hh\_sig\_x\_ob\_y\_ob



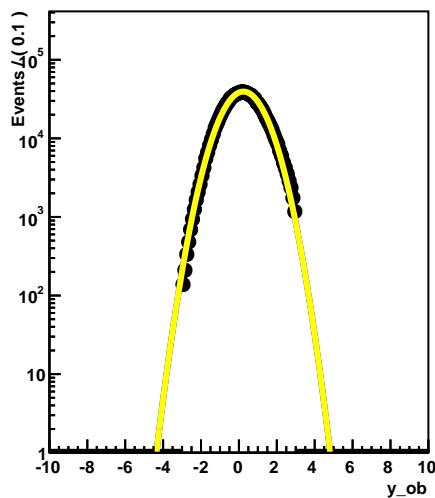
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



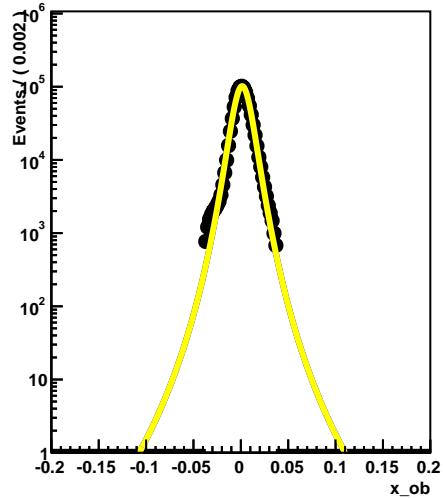
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] |η| [0.8-1.0]



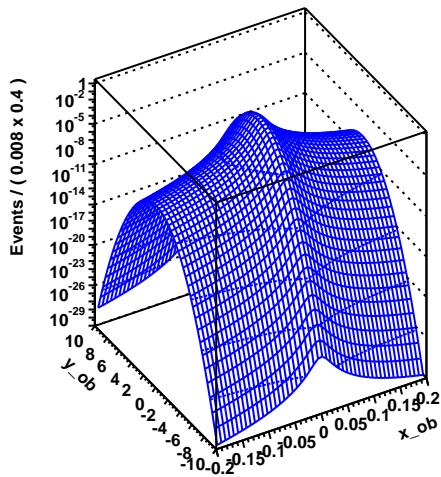
Pi nSigmaDEdx p[0.30-0.40]



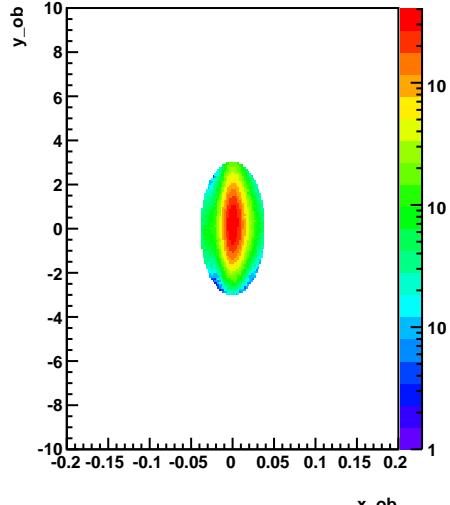
Pi dInvBeta p[0.30-0.40]



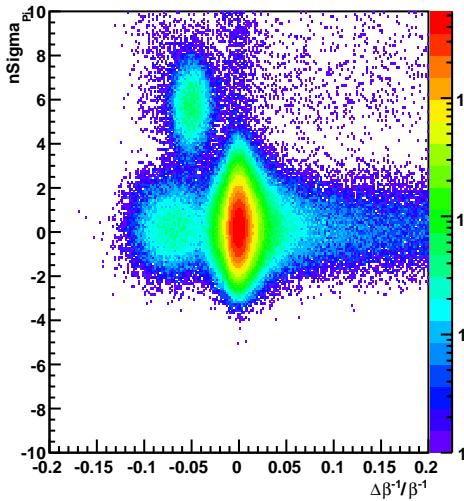
Histogram of hh\_sig\_x\_ob\_y\_ob



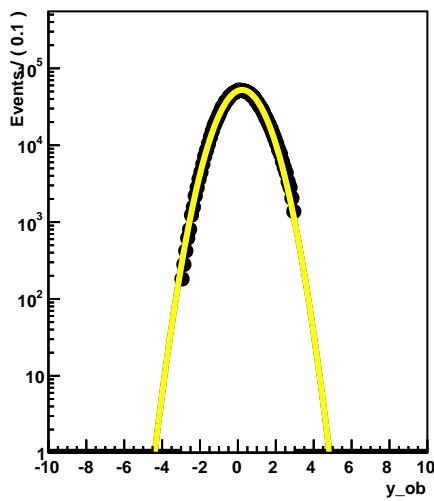
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



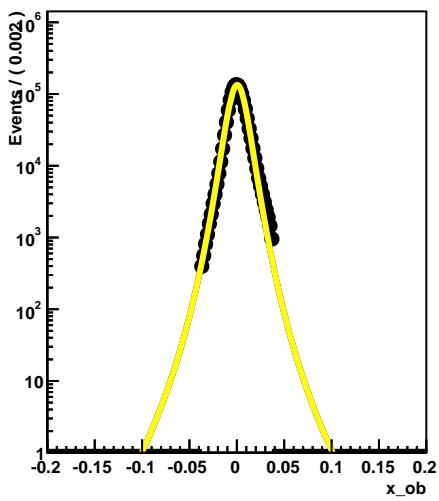
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] |η| [0.8-1.0]



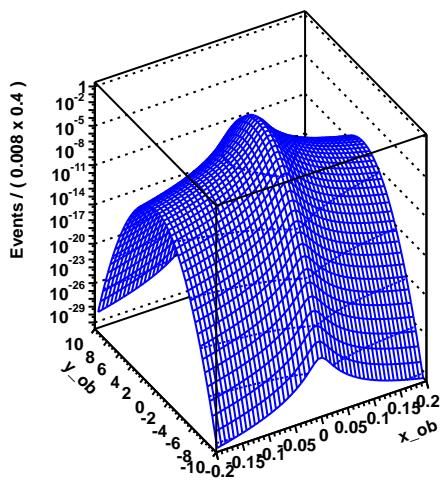
Pi nSigmaDEdx p[0.40-0.50]



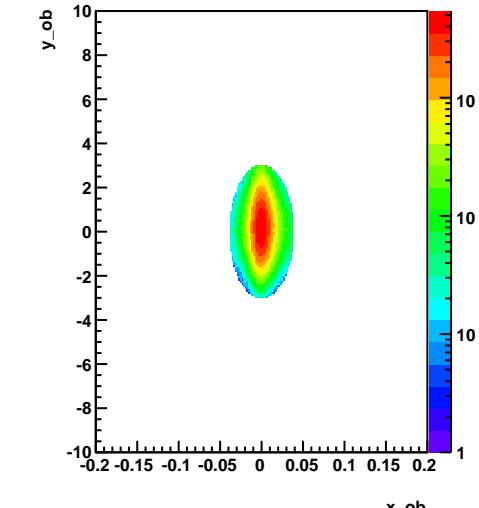
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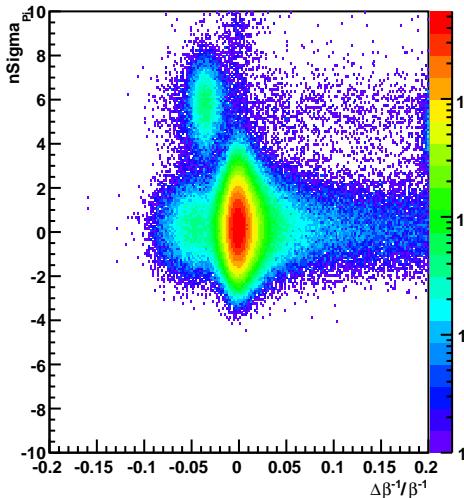
Histogram of hh\_sig\_x\_ob\_y\_ob



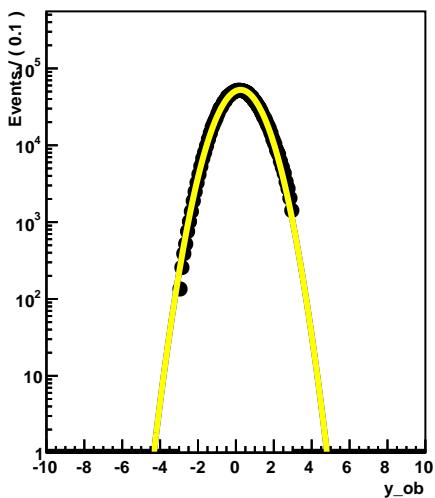
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



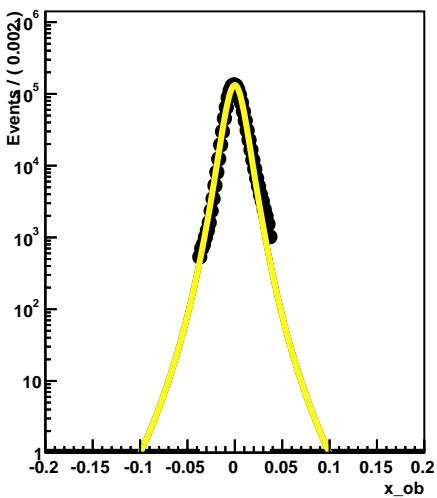
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] |η| [0.8-1.0]



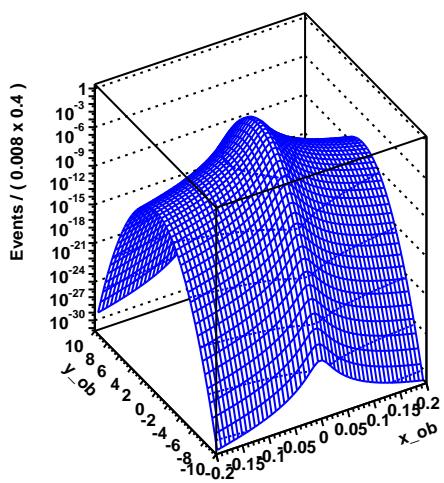
Pi nSigmaDEdx p[0.50-0.60]



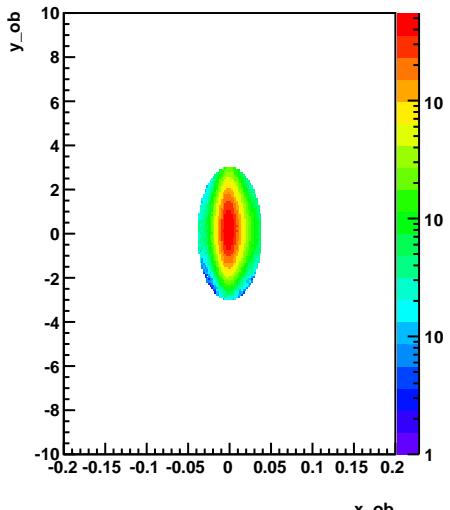
Pi dlnvBeta p[0.50-0.60]



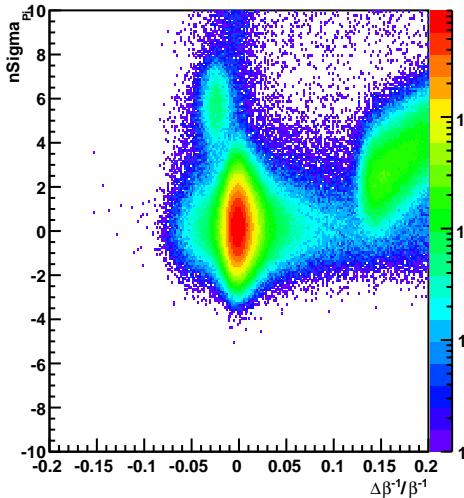
Histogram of hh\_sig\_x\_ob\_y\_ob



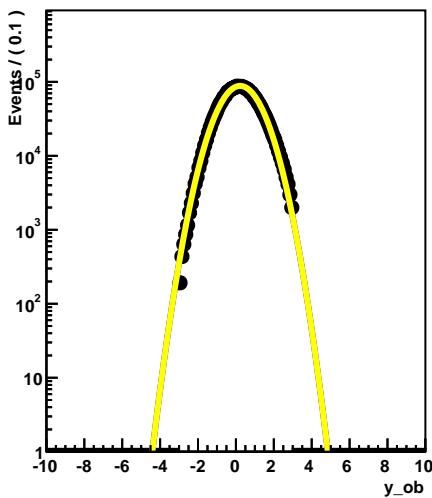
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



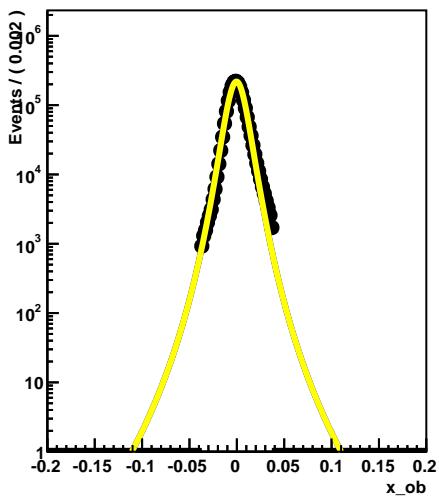
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.8-1.0]



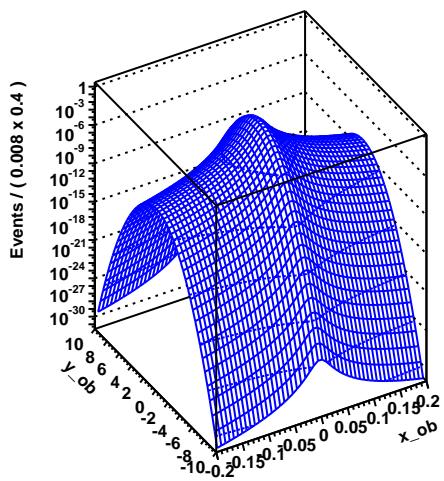
Pi nSigmaDEdx p[0.60-0.80]



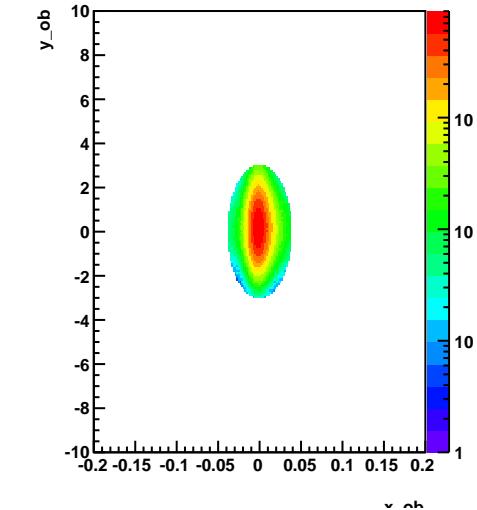
Pi dlnvBeta p[0.60-0.80]



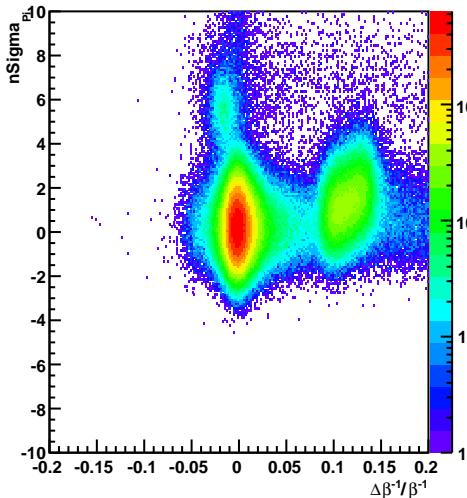
Histogram of hh\_sig\_x\_ob\_y\_ob



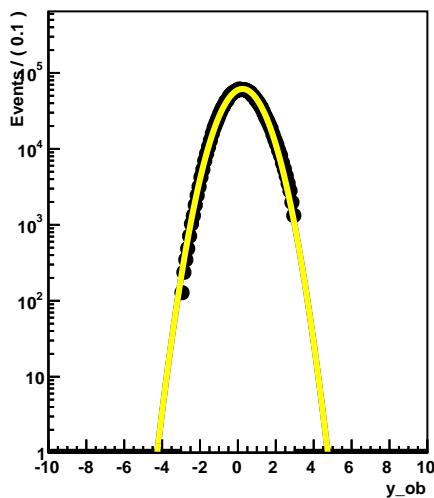
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



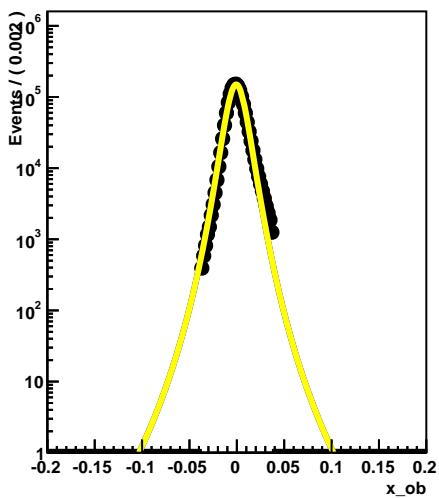
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.8-1.0]



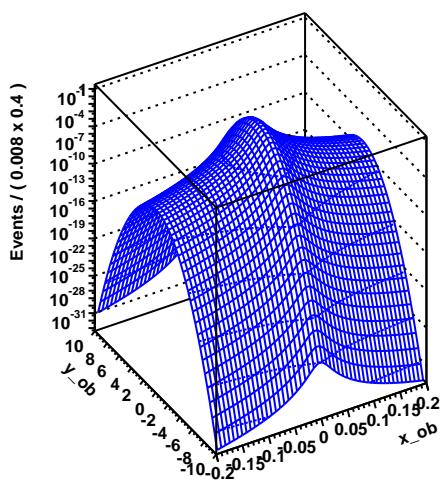
Pi nSigmaDEdx p[0.80-1.00]



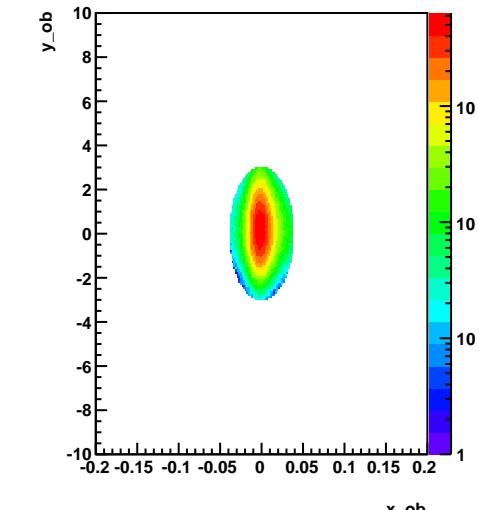
Pi dlnvBeta p[0.80-1.00]



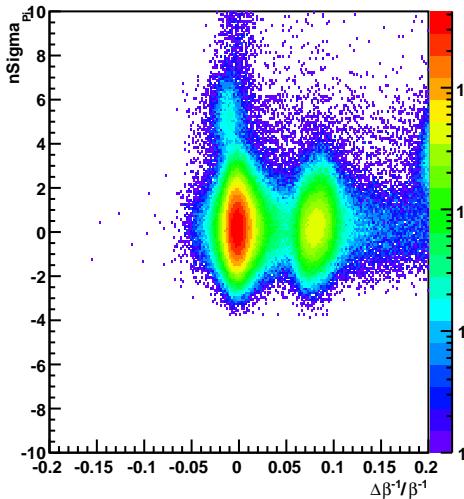
Histogram of hh\_sig\_x\_ob\_y\_ob



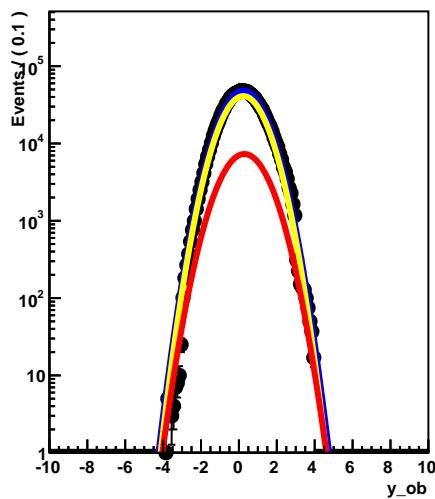
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



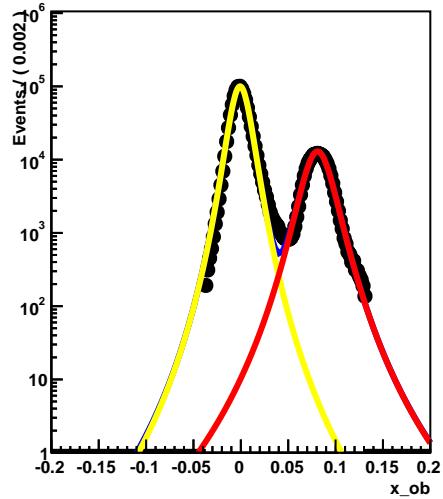
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] |η| [0.8-1.0]



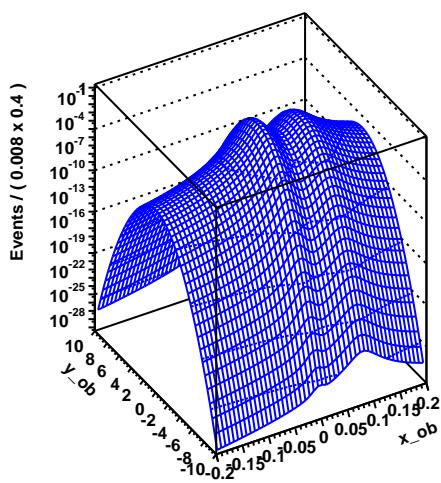
Pi nSigmaDEdx p[1.00-1.20]



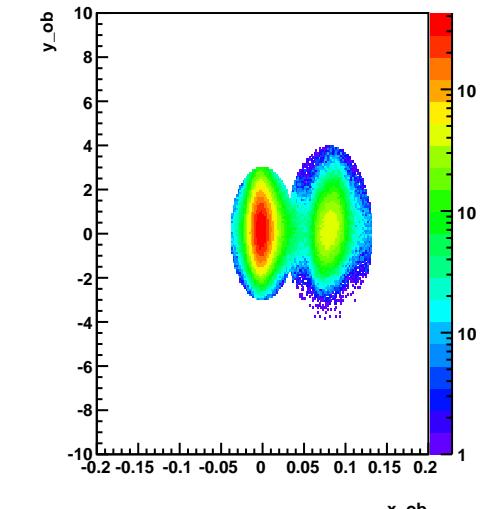
Pi dlnvBeta p[1.00-1.20]



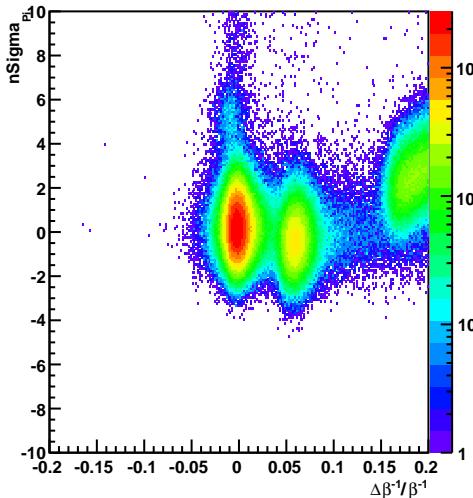
Histogram of hh\_sig\_x\_ob\_y\_ob



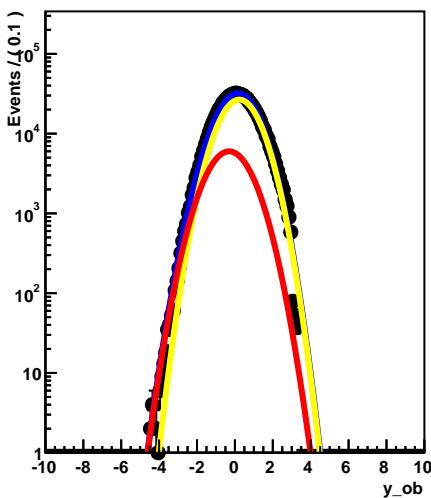
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



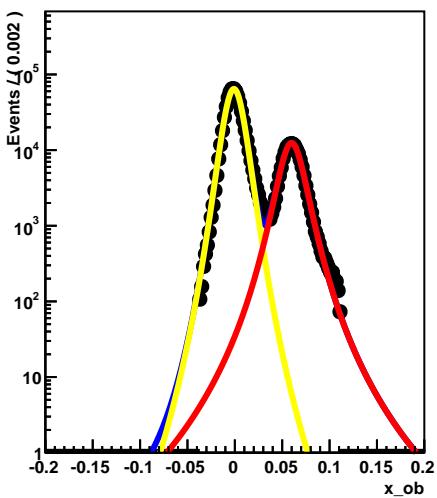
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] |η| [0.8-1.0]



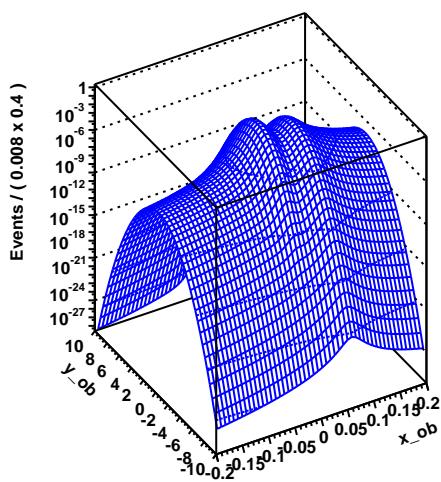
Pi nSigmaDEdx p[1.20-1.40]



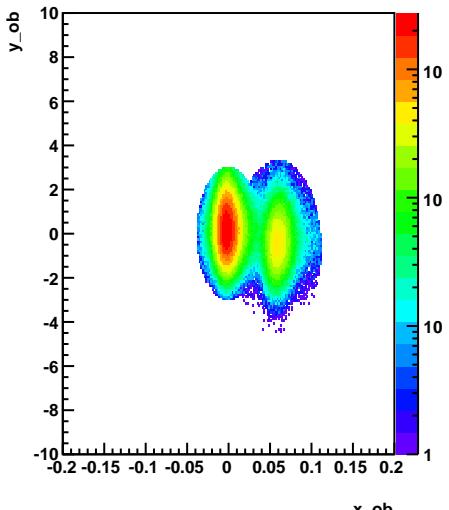
Pi dInvBeta p[1.20-1.40]



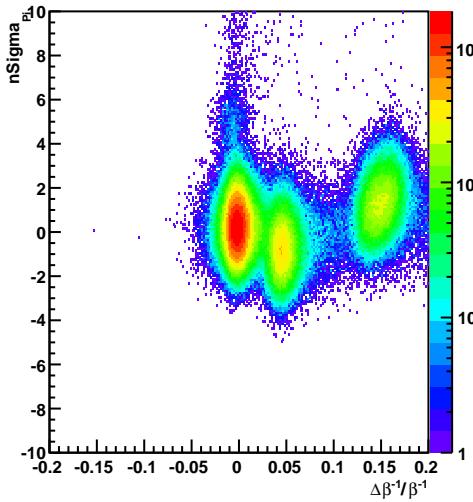
Histogram of hh\_sig\_x<sub>ob</sub>\_y<sub>ob</sub>



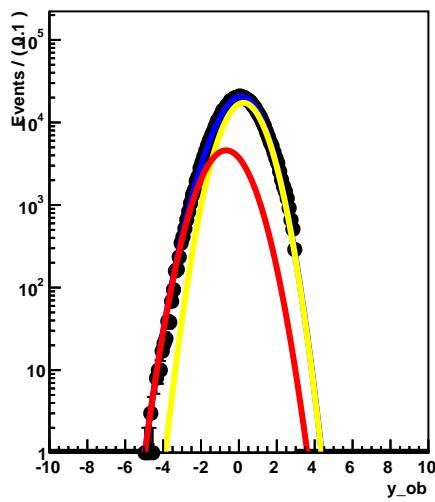
Histogram of hh\_data\_Pi\_x<sub>ob</sub>\_y<sub>ob</sub>



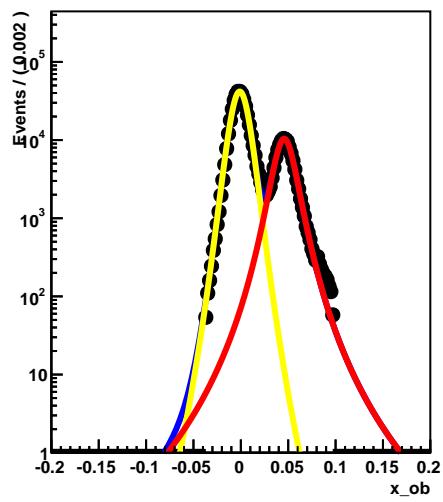
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] |η| [0.8-1.0]



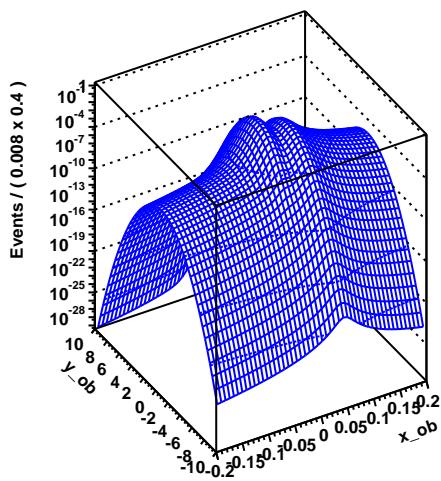
Pi nSigmaDEdx p[1.40-1.60]



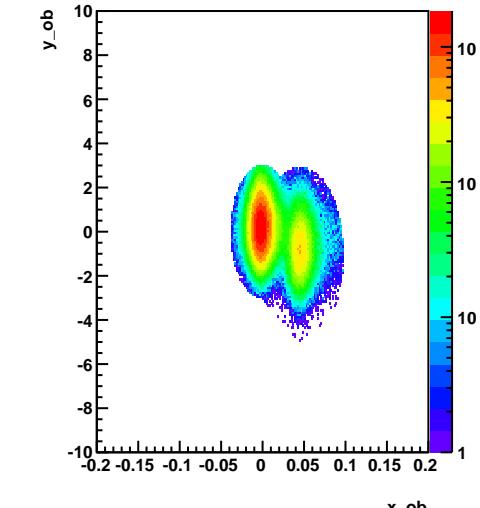
Pi dlnvBeta p[1.40-1.60]



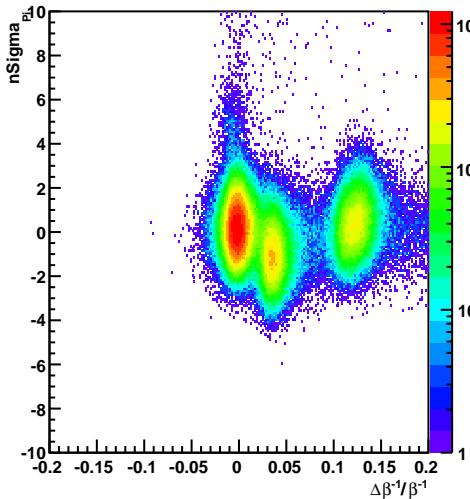
Histogram of hh\_sig\_x\_ob\_y\_ob



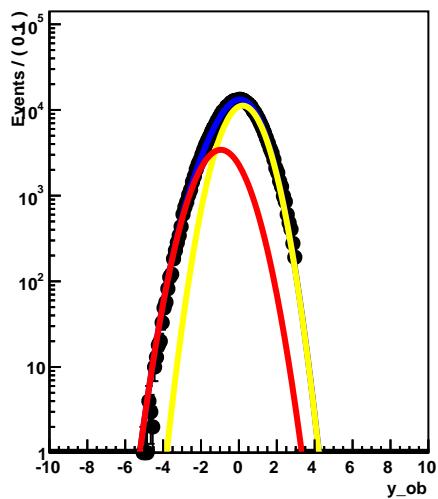
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



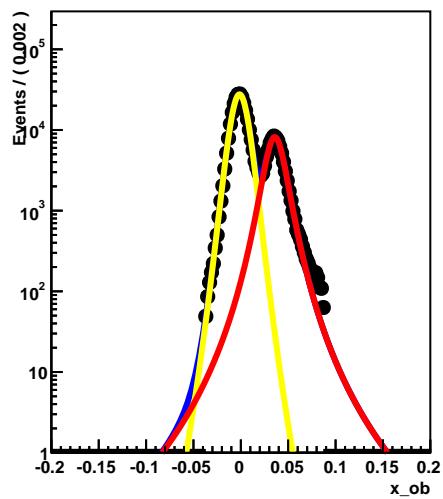
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] |η| [0.8-1.0]



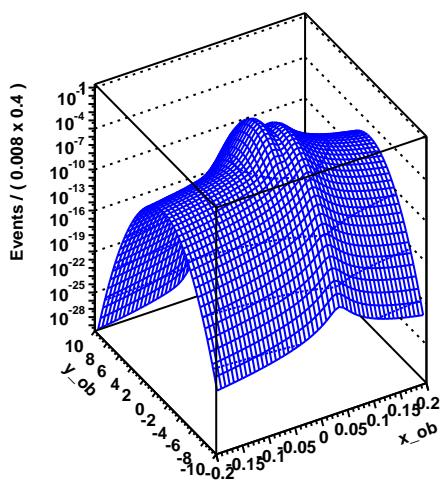
Pi nSigmaDEdx p[1.60-1.80]



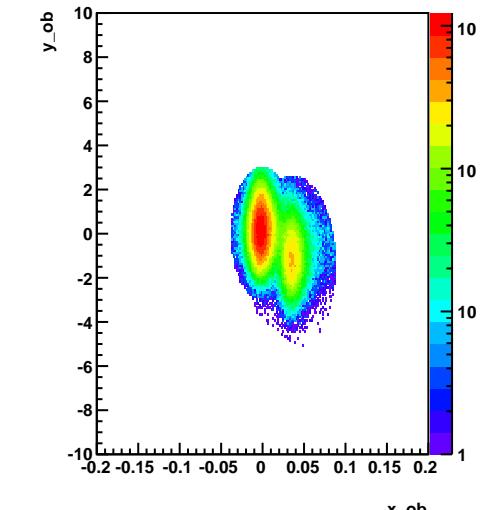
Pi dlnvBeta p[1.60-1.80]



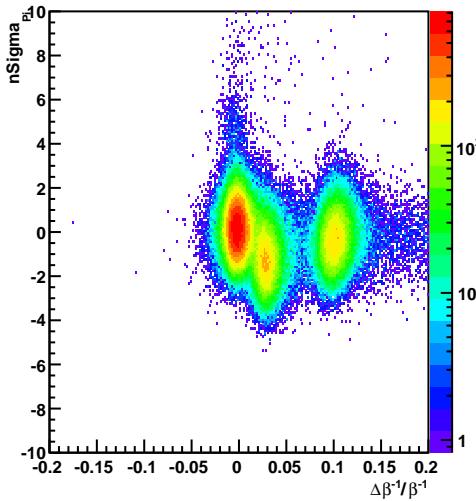
Histogram of hh\_sig\_x\_ob\_y\_ob



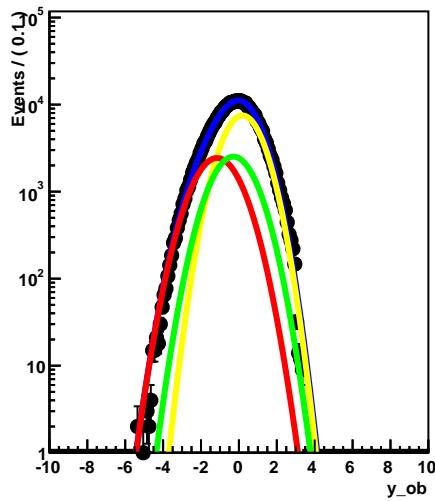
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



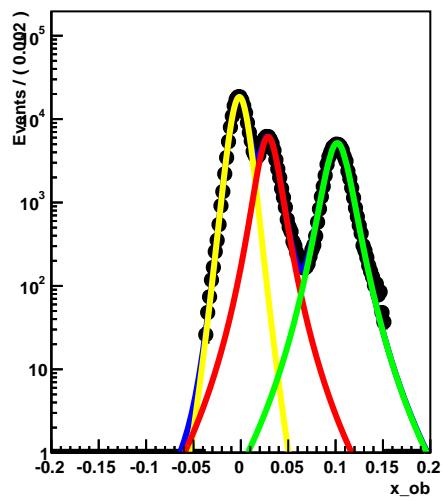
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.80-2.00] |η| [0.8-1.0]



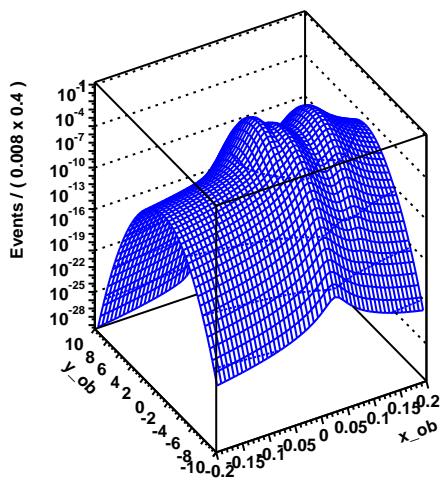
Pi nSigmaDEdx p[1.80-2.00]



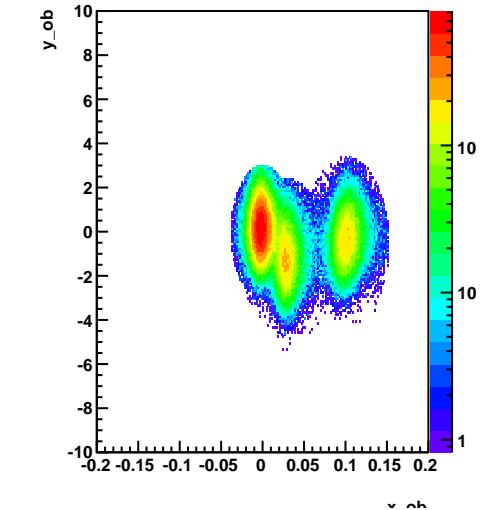
Pi dlnvBeta p[1.80-2.00]



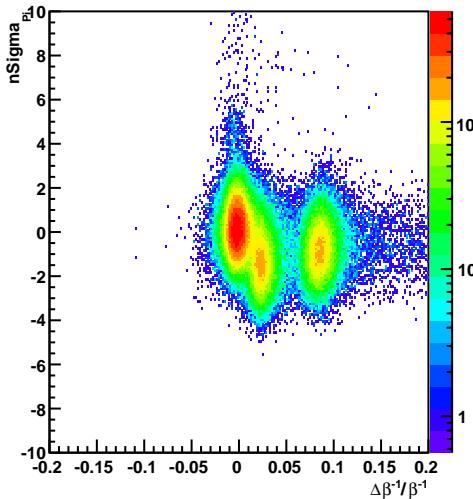
Histogram of hh\_sig\_x\_ob\_y\_ob



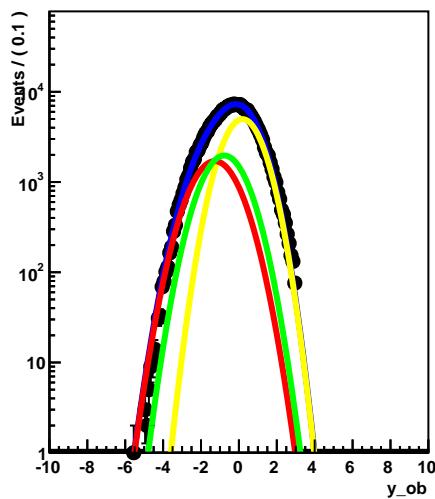
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



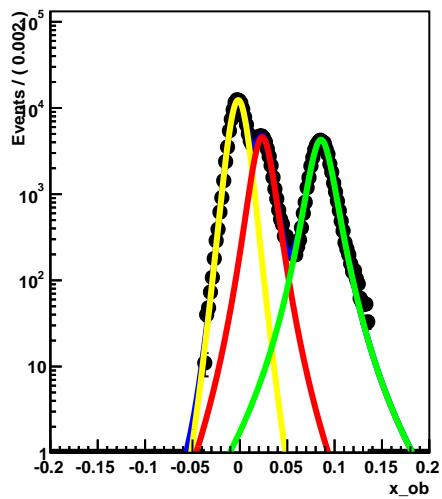
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.00-2.20] | $\eta$ | [0.8-1.0]



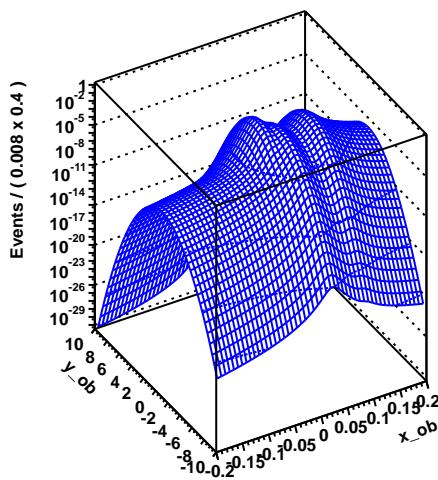
Pi nSigmaDEdx p[2.00-2.20]



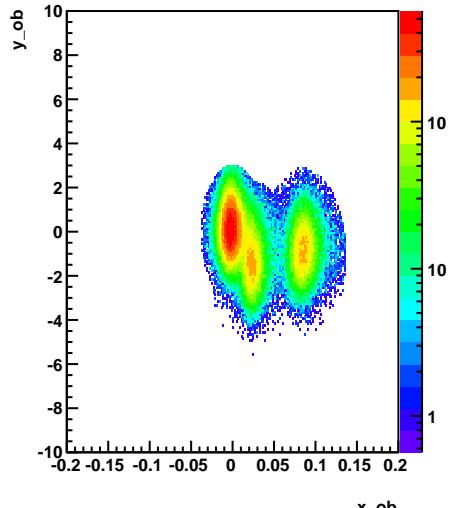
Pi dlnvBeta p[2.00-2.20]



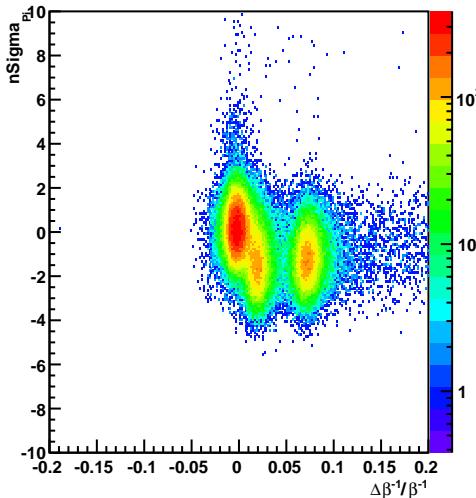
Histogram of hh\_sig\_x\_ob\_y\_ob



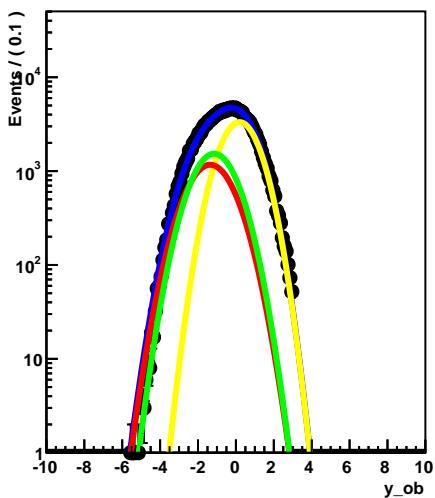
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



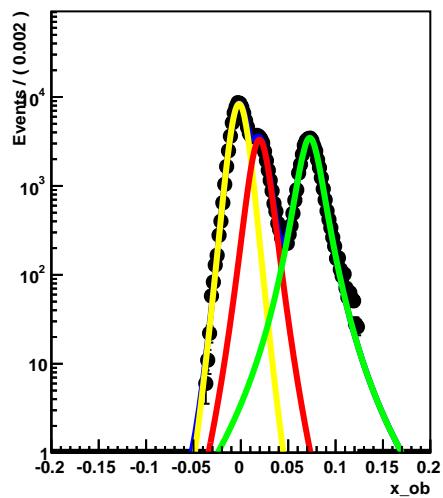
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.20-2.40]  $|\eta|$  [0.8-1.0]



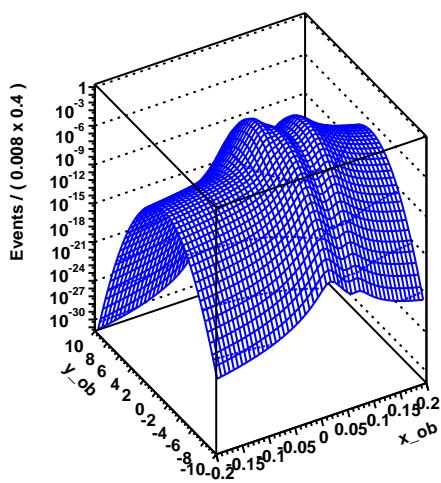
Pi nSigmaDEdx p[2.20-2.40]



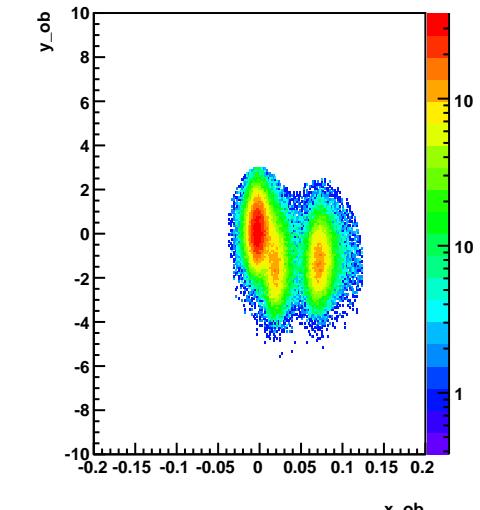
Pi dlnvBeta p[2.20-2.40]



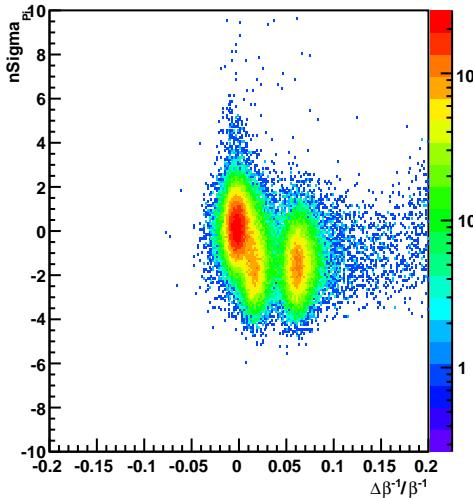
Histogram of hh\_sig\_x\_ob\_y\_ob



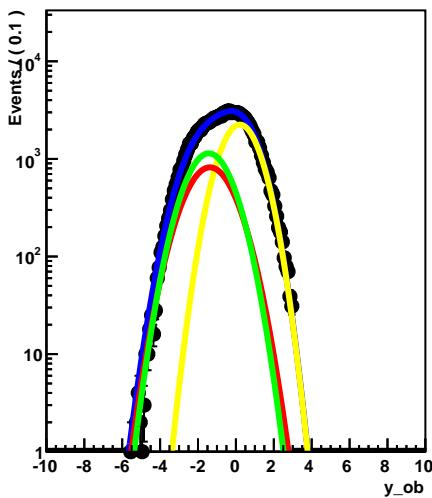
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



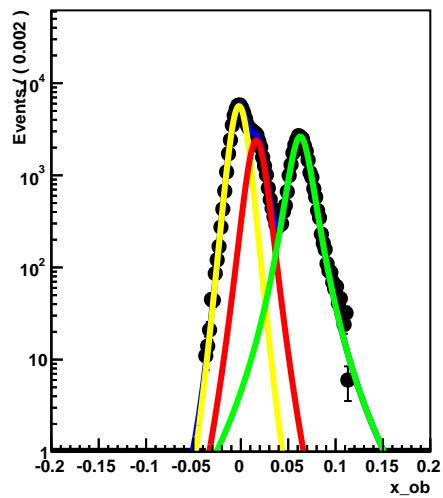
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.40-2.60]  $|\eta|$  [0.8-1.0]



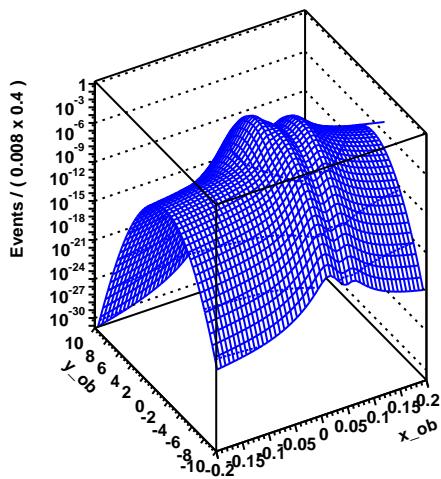
Pi nSigmaDEdx p[2.40-2.60]



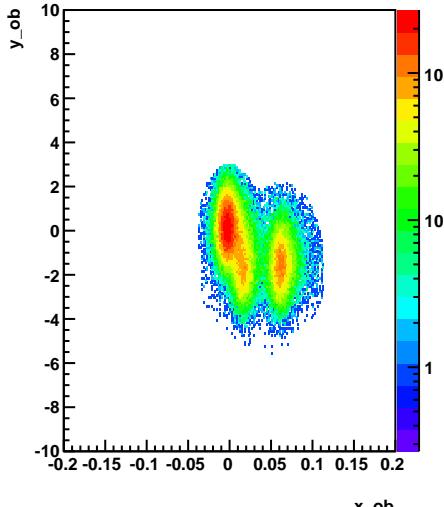
Pi dInvBeta p[2.40-2.60]



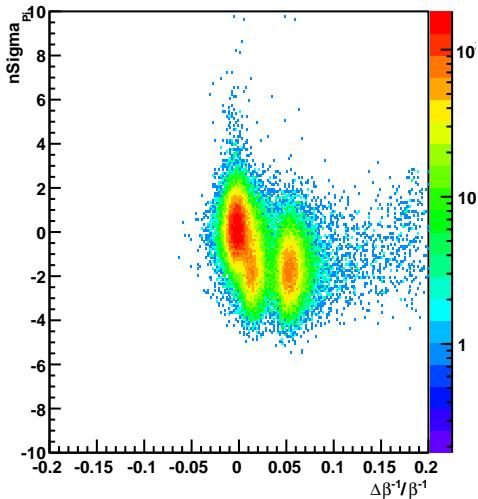
Histogram of hh\_sig\_x\_ob\_y\_ob



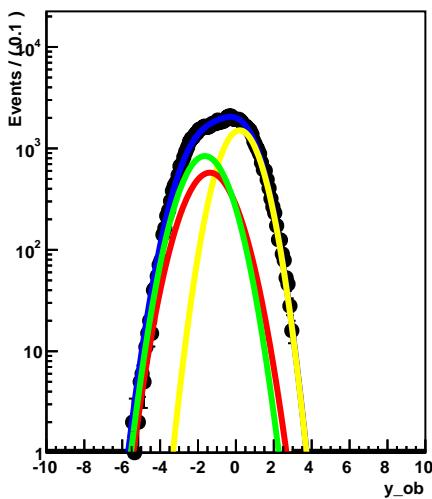
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



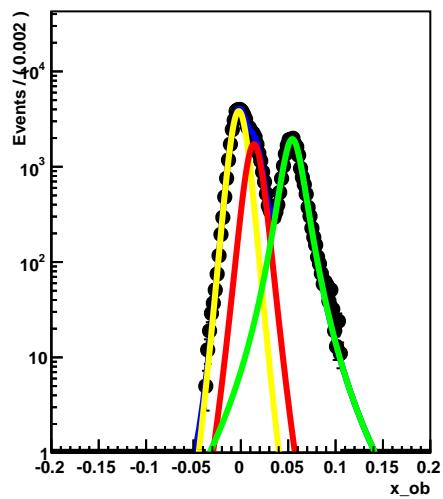
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.60-2.80] | $\eta$ | [0.8-1.0]



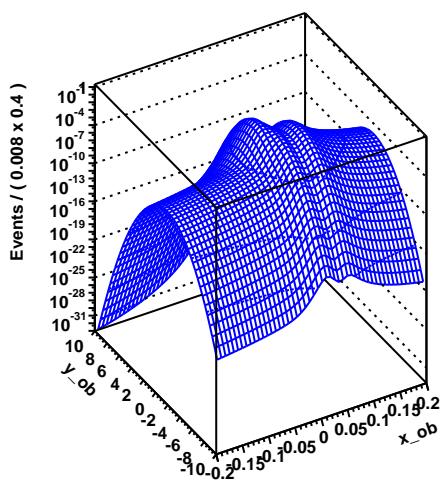
Pi nSigmaDEdx p[2.60-2.80]



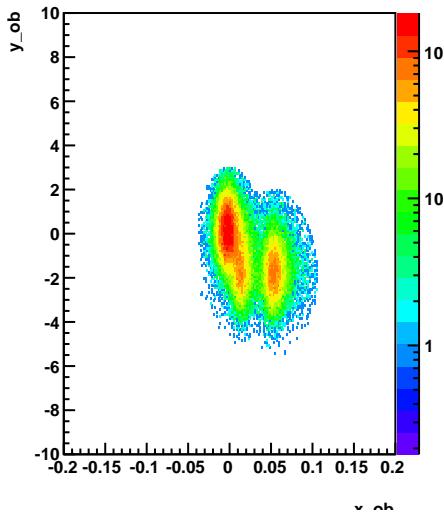
Pi dlnvBeta p[2.60-2.80]



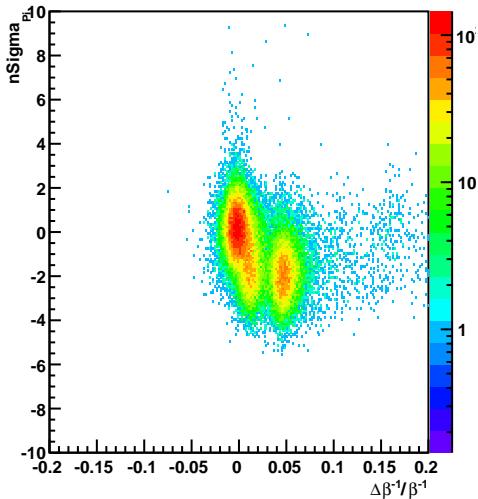
Histogram of hh\_sig\_x\_ob\_y\_ob



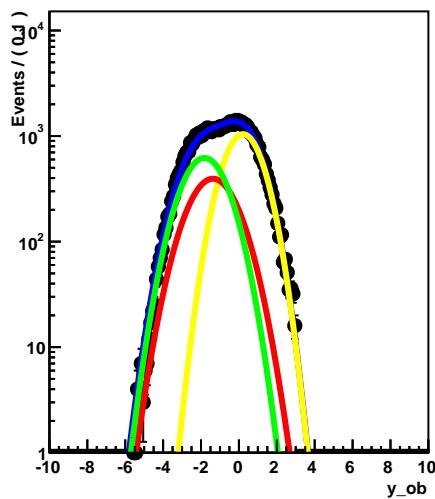
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



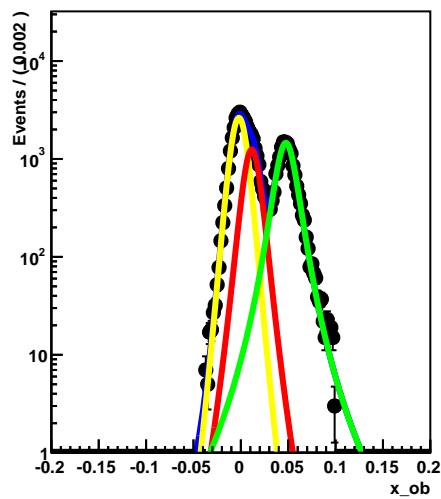
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [2.80-3.00] | $\eta$ | [0.8-1.0]



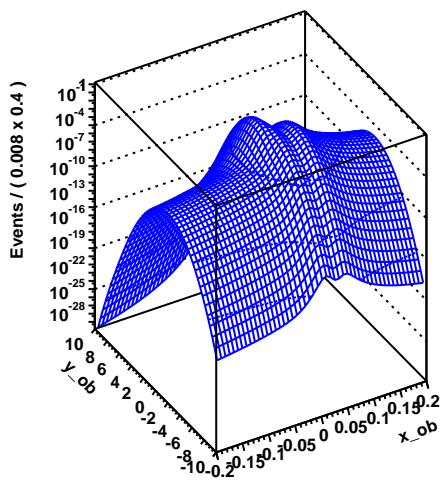
Pi nSigmaDEdx p[2.80-3.00]



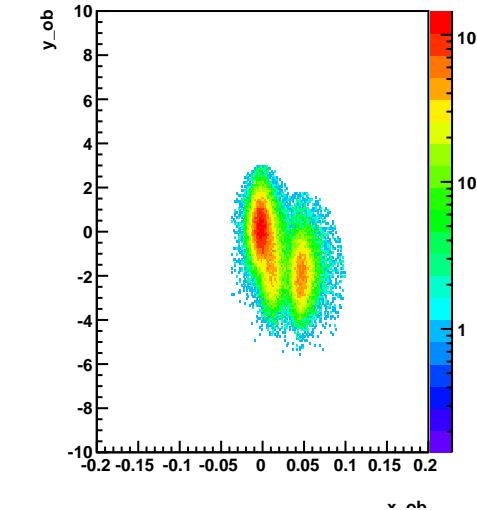
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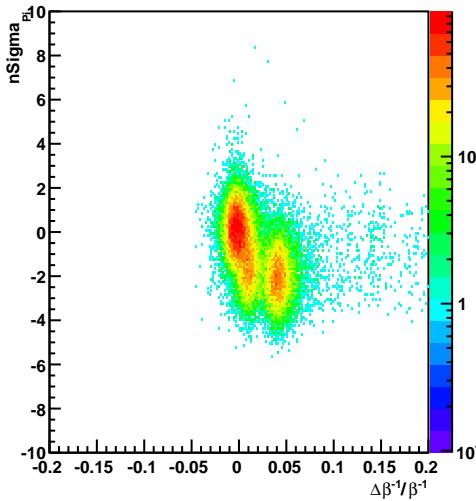
Histogram of hh\_sig\_x\_ob\_y\_ob



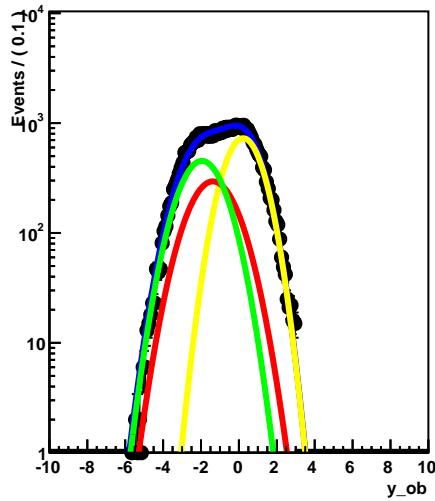
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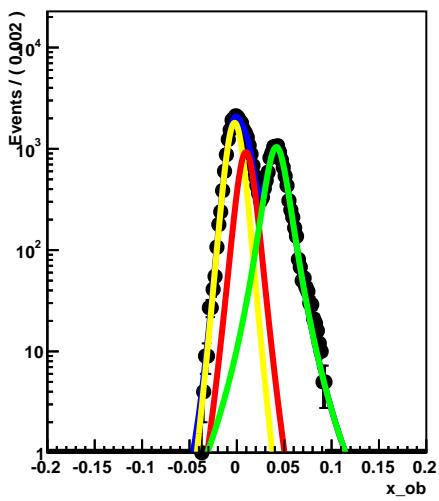
nσ vs.  $\Delta \beta^{-1}/\beta^{-1}$  p [3.00-3.20] |η| [0.8-1.0]



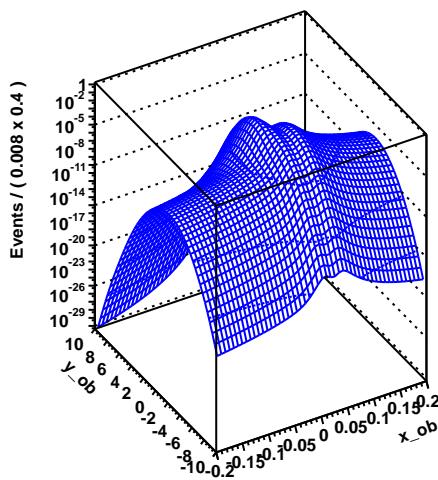
Pi nSigmaDEdx p[3.00-3.20]



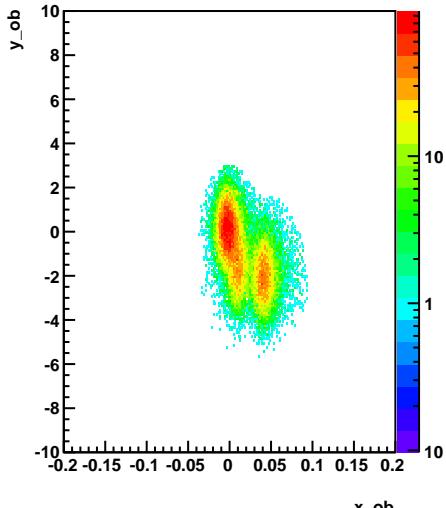
Pi dInvBeta p[3.00-3.20]



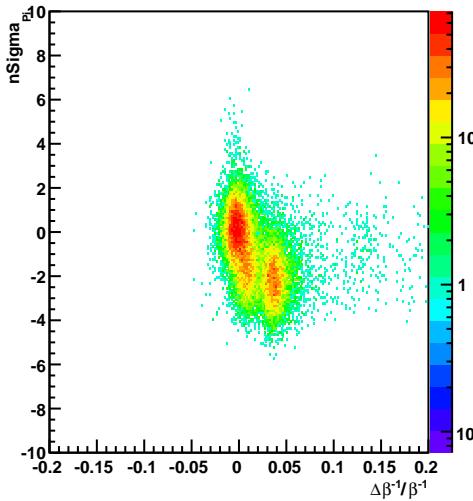
Histogram of hh\_sig\_x\_ob\_y\_ob



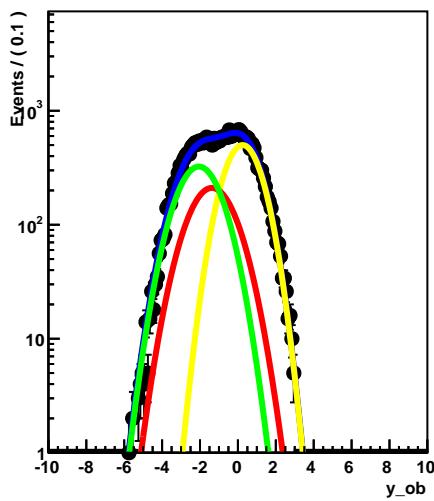
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



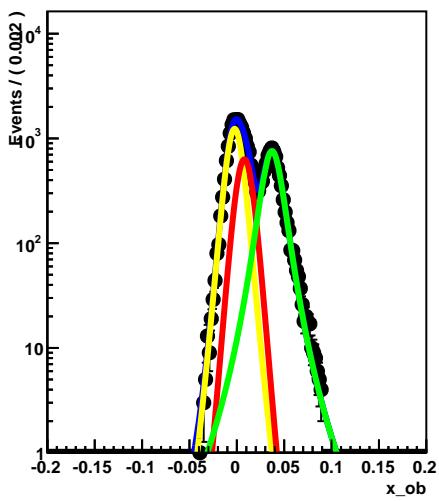
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.20-3.40] | $\eta$ | [0.8-1.0]



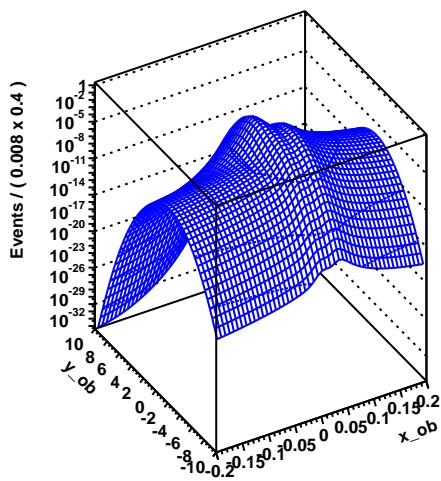
Pi nSigmaDEdx p[3.20-3.40]



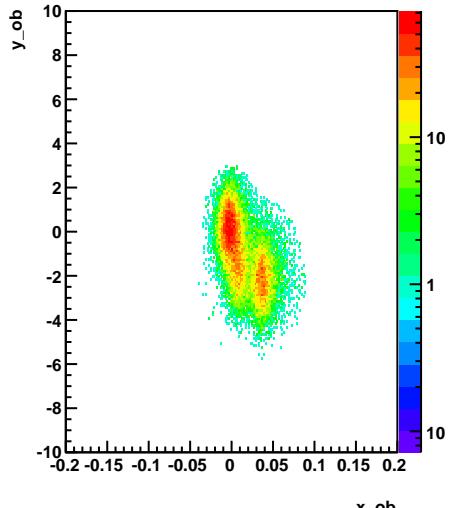
Pi dInvBeta p[3.20-3.40]



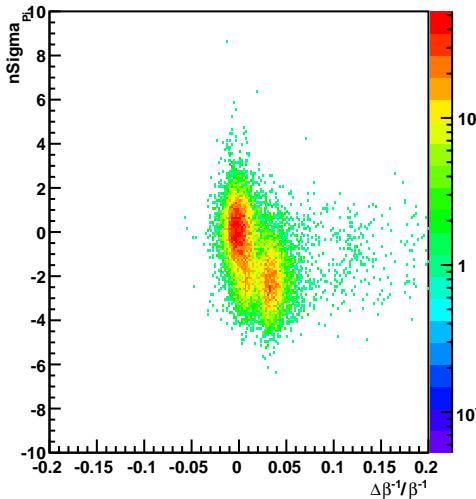
Histogram of hh\_sig\_x\_ob\_y\_ob



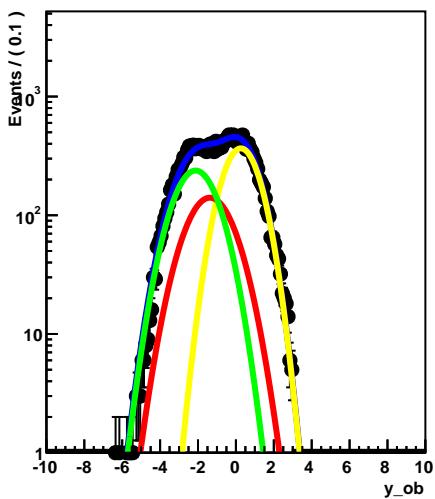
Histogram of hh\_data\_Pi\_x\_ob\_y\_ob



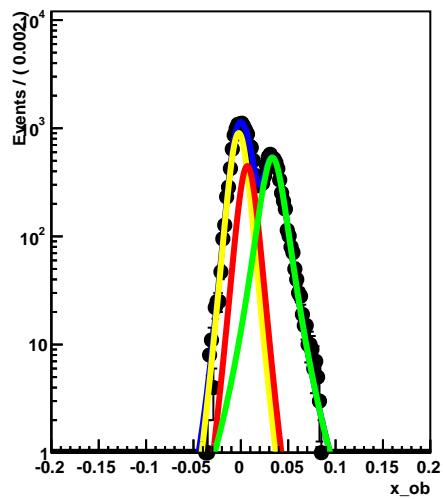
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [3.40-3.60] | $\eta$ | [0.8-1.0]



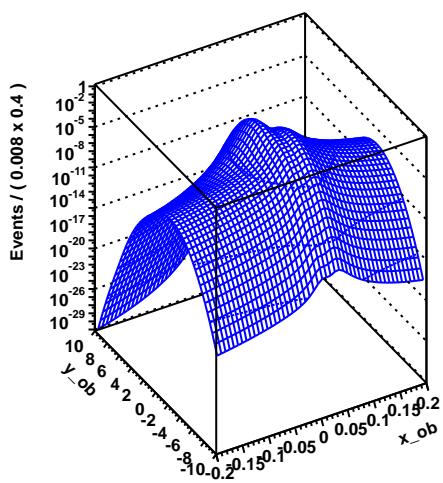
Pi nSigmaDEdx p[3.40-3.60]



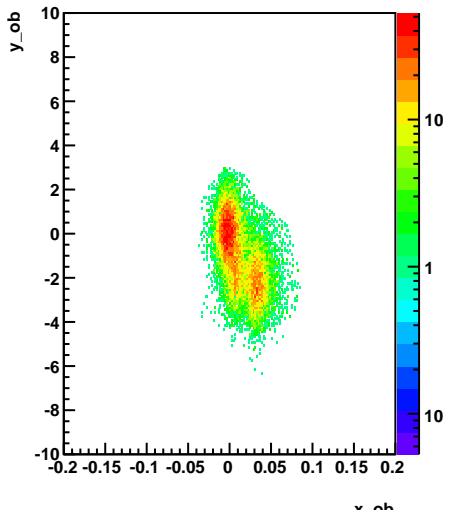
Pi dInvBeta p[3.40-3.60]



Histogram of hh\_sig\_x\_ob\_y\_ob

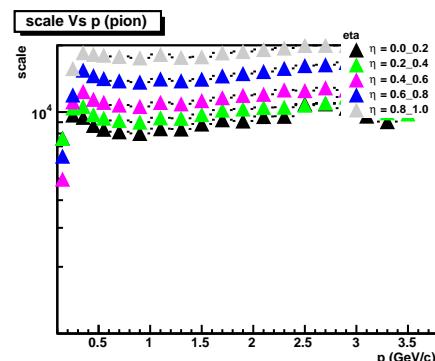
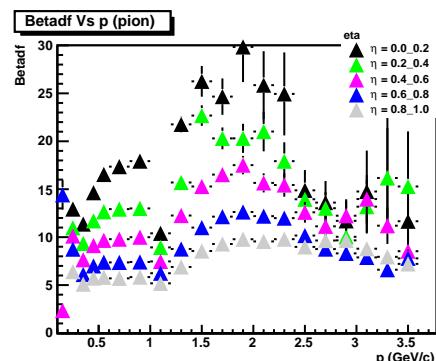
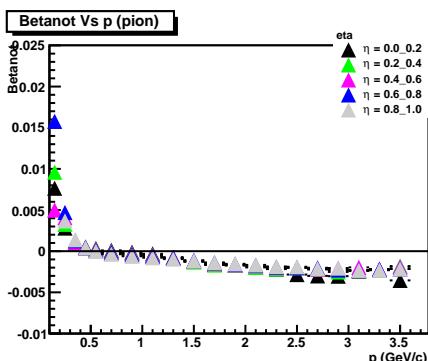
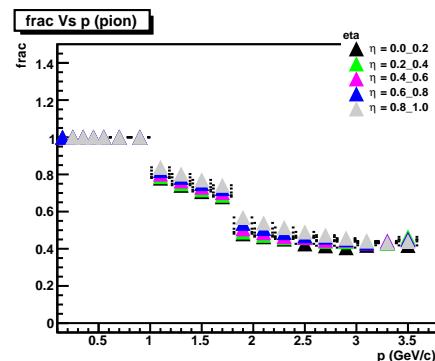
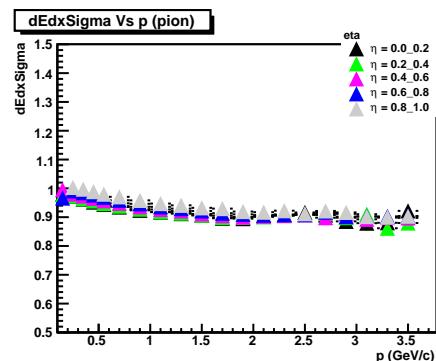
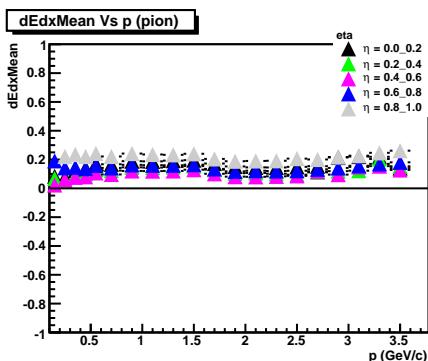
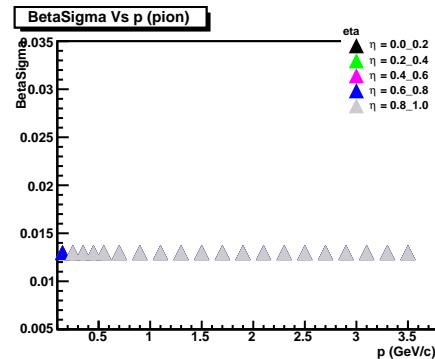
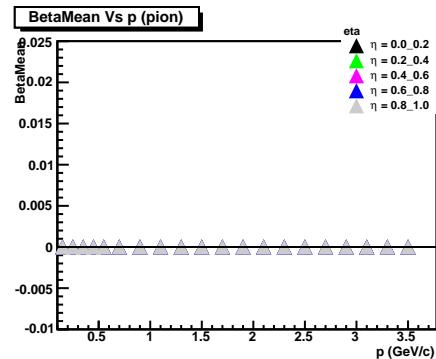
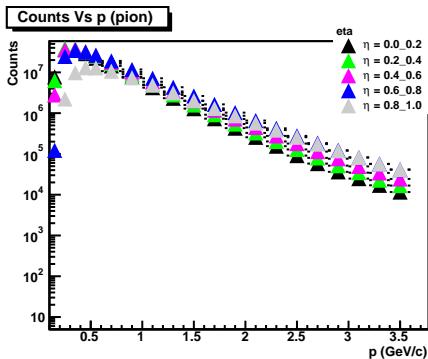


Histogram of hh\_data\_Pi\_x\_ob\_y\_ob

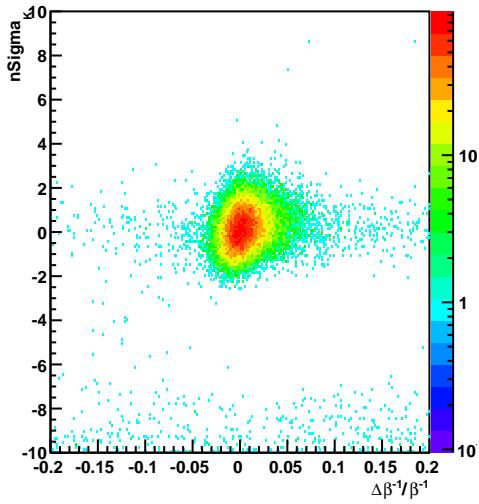




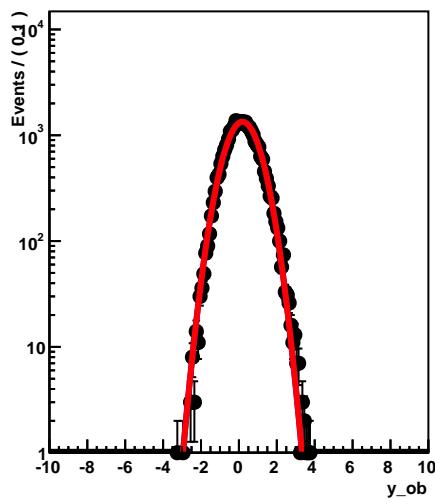




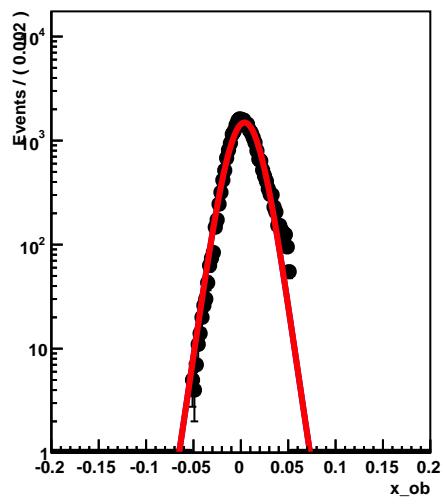
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.0-0.2]



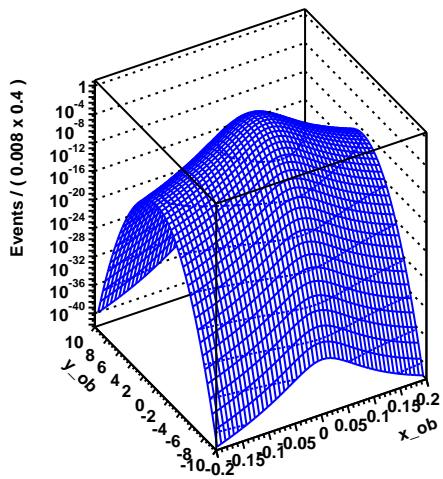
K nSigmaDEdx p[0.20-0.30]



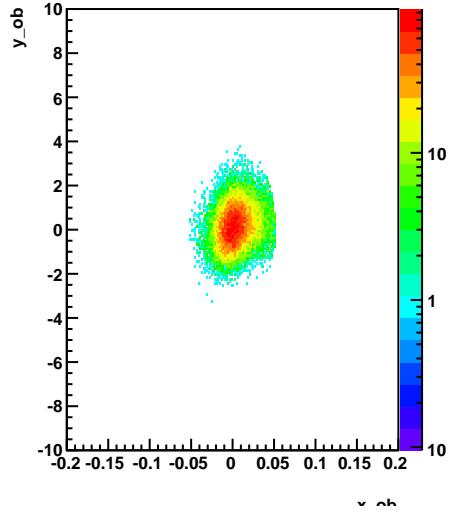
K dlnvBeta p[0.20-0.30]



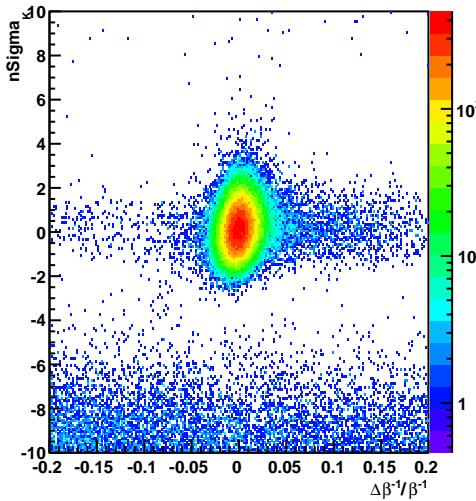
Histogram of hh\_sig\_x\_ob\_y\_ob



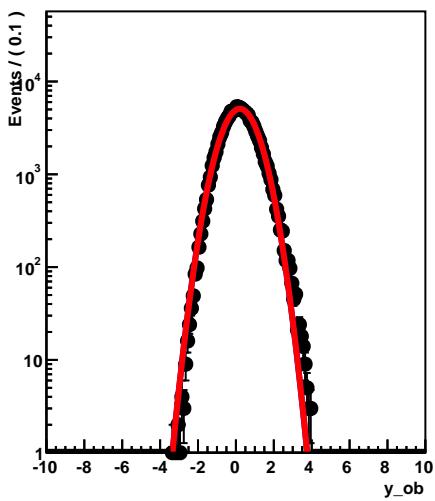
Histogram of hh\_data\_K\_x\_ob\_y\_ob



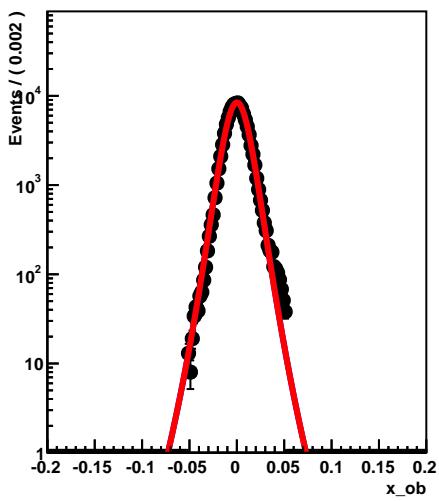
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.0-0.2]



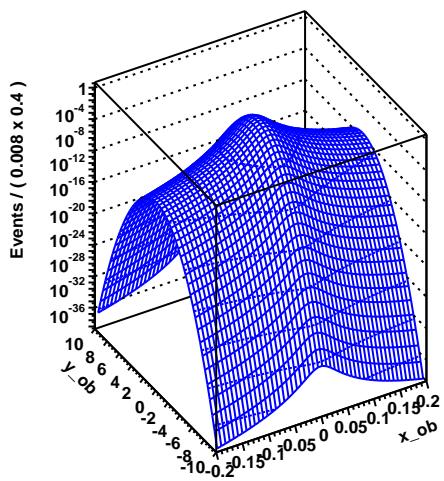
K nSigmaDEdx p[0.30-0.40]



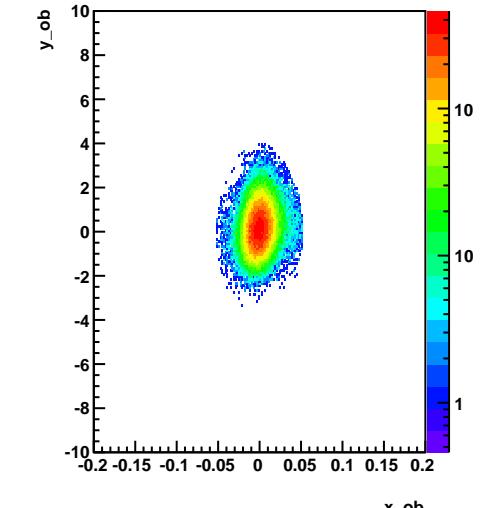
K dlnvBeta p[0.30-0.40]



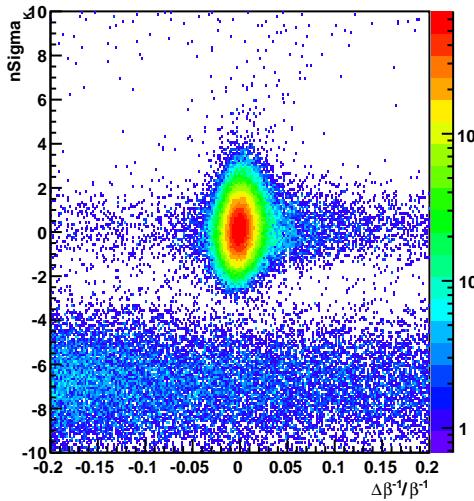
Histogram of hh\_sig\_x\_ob\_y\_ob



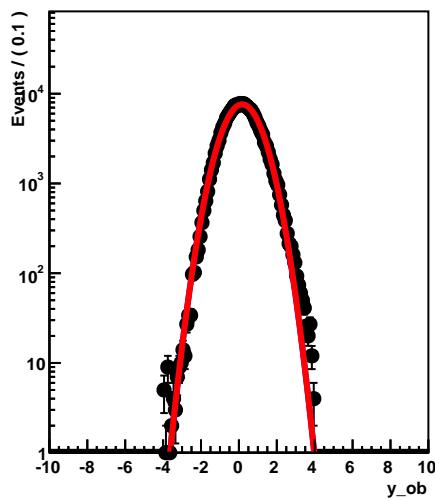
Histogram of hh\_data\_K\_x\_ob\_y\_ob



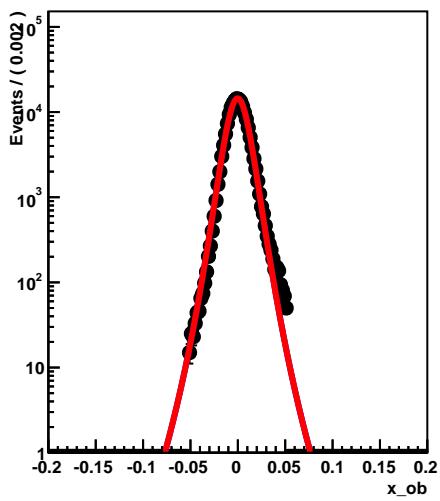
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] |η| [0.0-0.2]



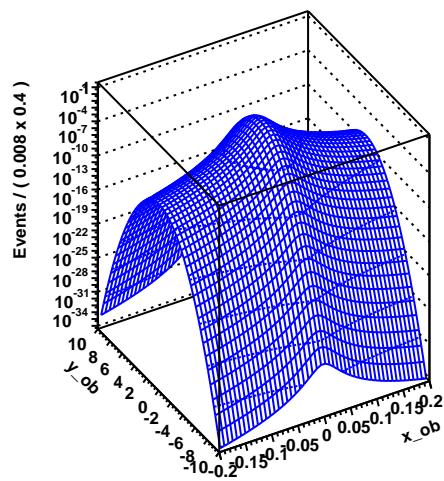
K nSigmaDEdx p[0.40-0.50]



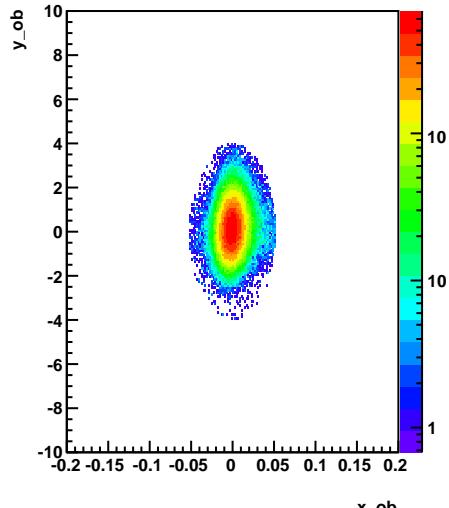
K dlnvBeta p[0.40-0.50]



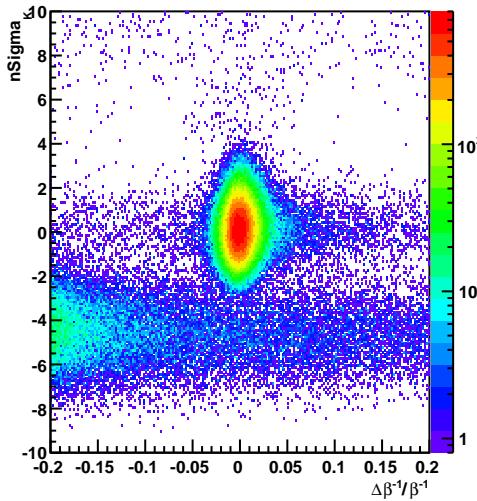
Histogram of hh\_sig\_x\_ob\_y\_ob



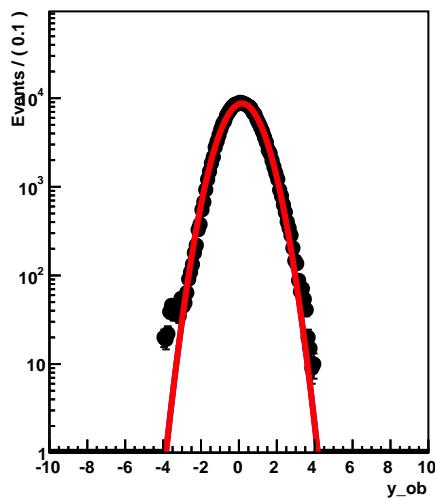
Histogram of hh\_data\_K\_x\_ob\_y\_ob



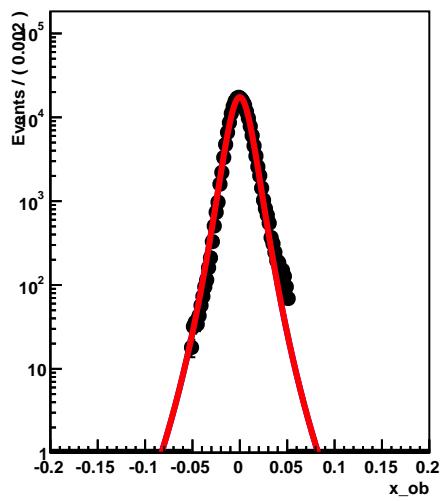
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60]  $|\eta|$  [0.0-0.2]



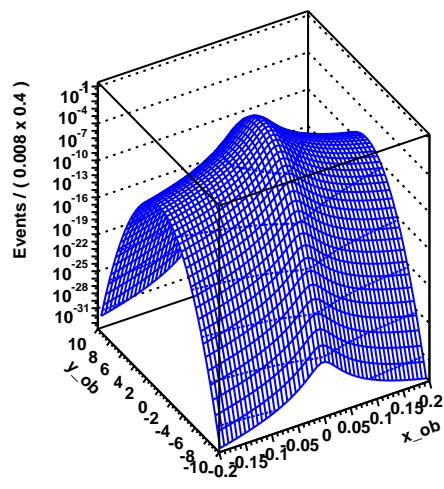
K nSigmaDEdx p[0.50-0.60]



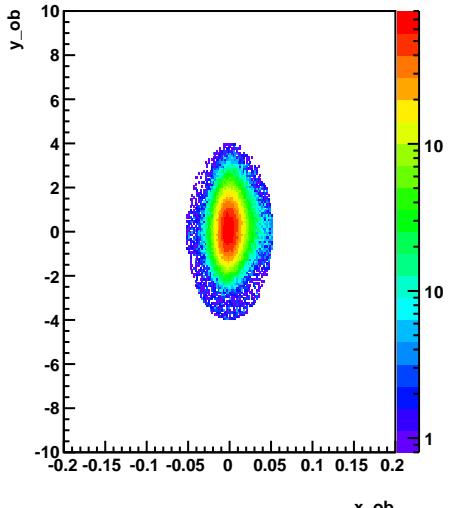
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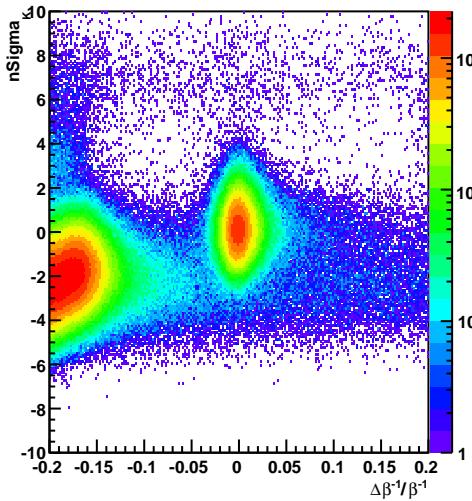
Histogram of hh\_sig\_x\_ob\_y\_ob



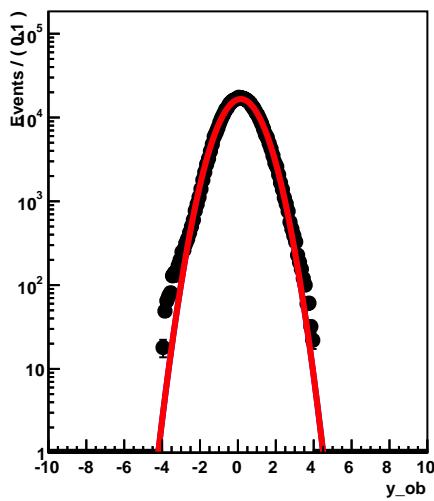
Histogram of hh\_data\_K\_x\_ob\_y\_ob



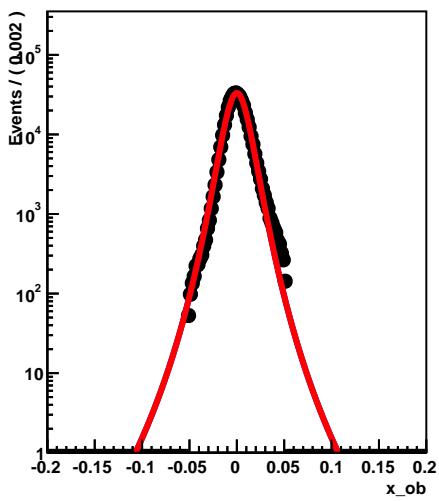
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.0-0.2]



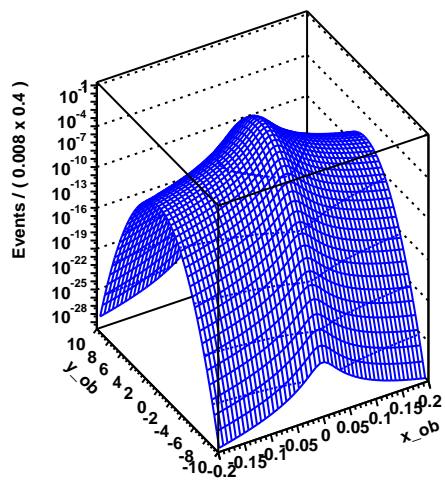
K nSigmaDEdx p[0.60-0.80]



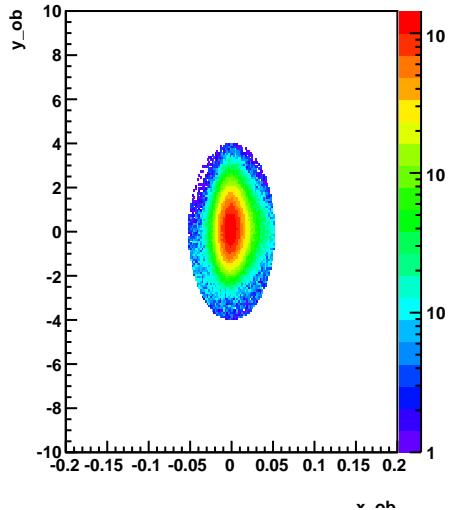
K dlnvBeta p[0.60-0.80]



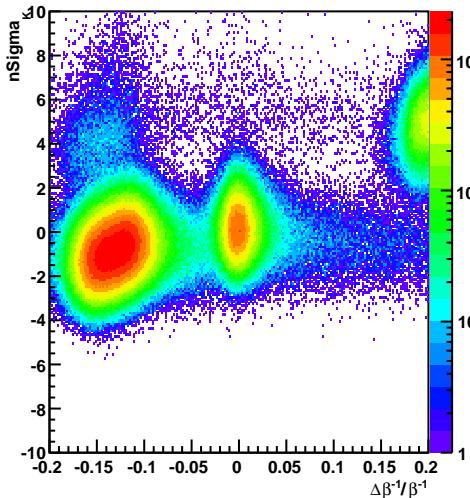
Histogram of hh\_sig\_x\_ob\_y\_ob



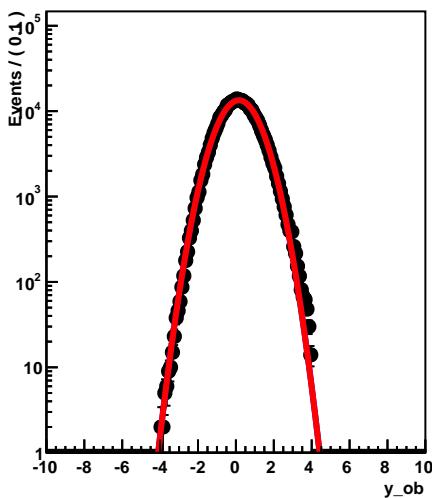
Histogram of hh\_data\_K\_x\_ob\_y\_ob



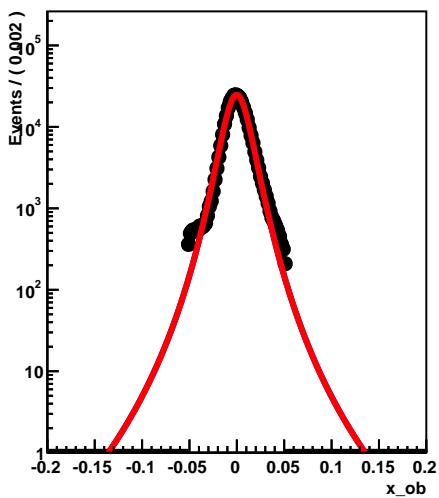
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] |η| [0.0-0.2]



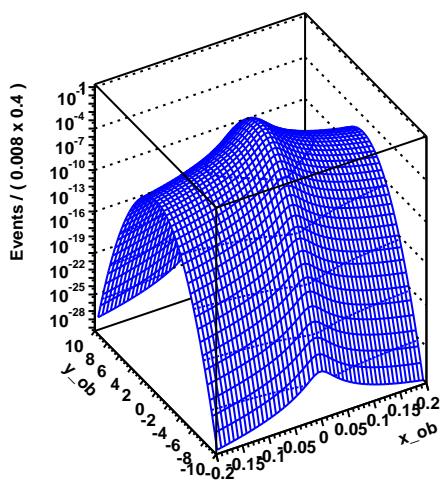
K nSigmaDEdx p[0.80-1.00]



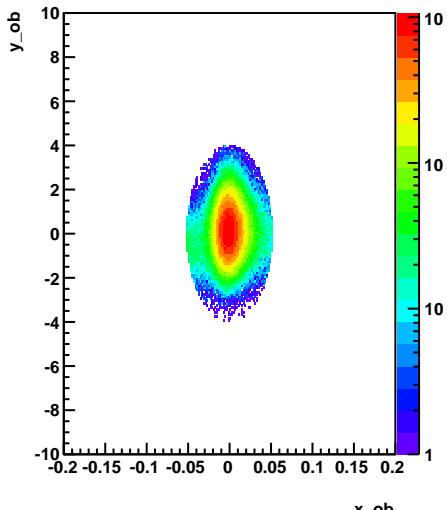
K dlnvBeta p[0.80-1.00]



Histogram of hh\_sig\_x\_ob\_y\_ob

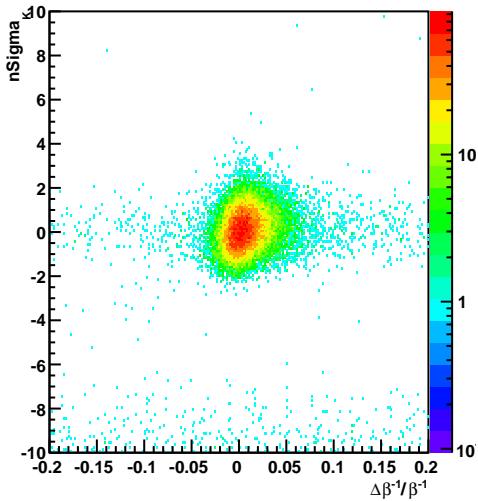


Histogram of hh\_data\_K\_x\_ob\_y\_ob

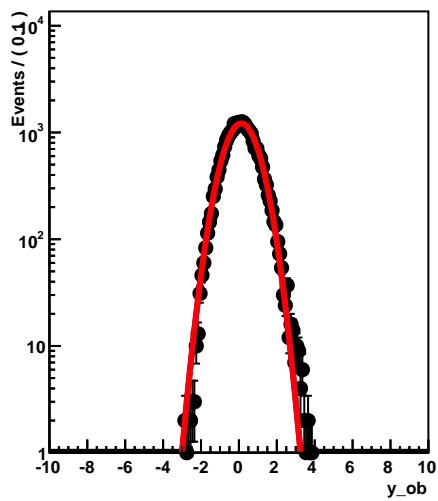




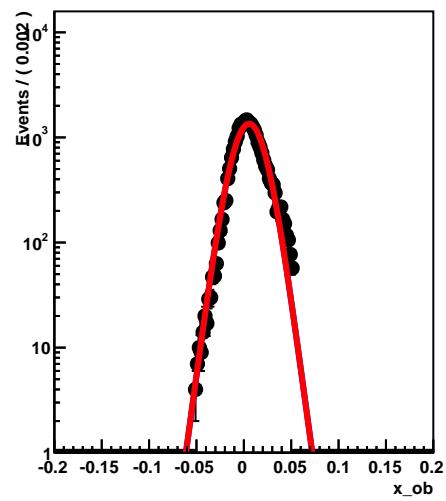
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.2-0.4]



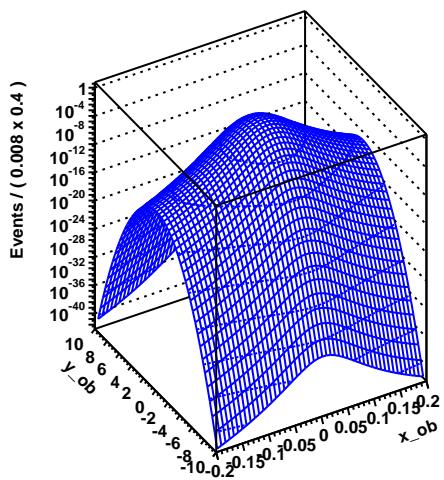
K nSigmaDEdx p[0.20-0.30]



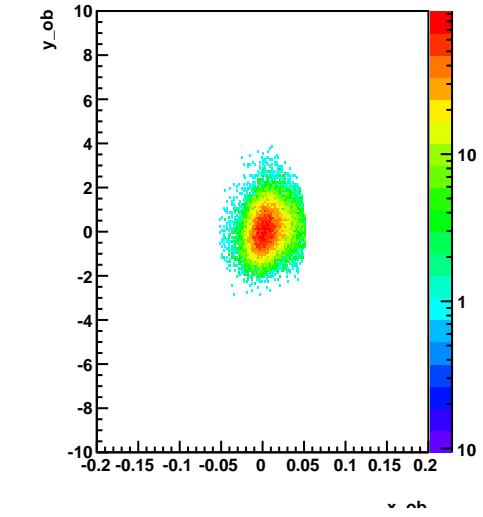
K dlnvBeta p[0.20-0.30]



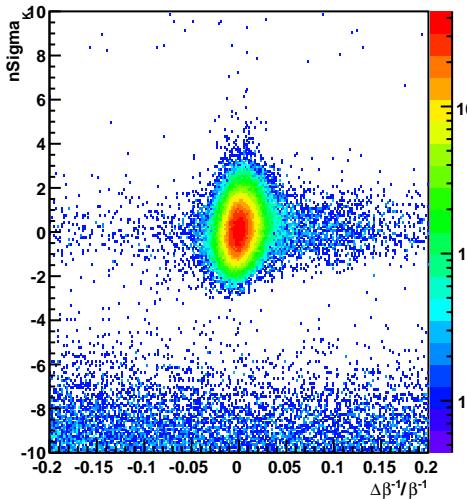
Histogram of hh\_sig\_x\_ob\_y\_ob



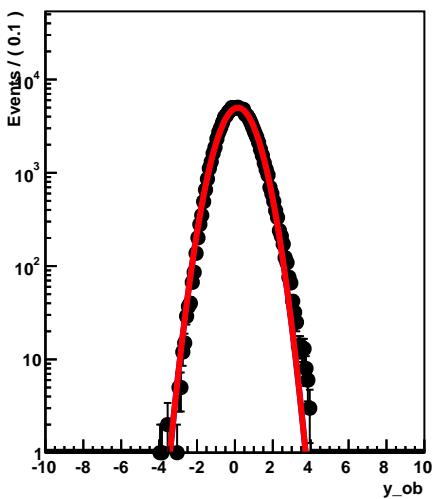
Histogram of hh\_data\_K\_x\_ob\_y\_ob



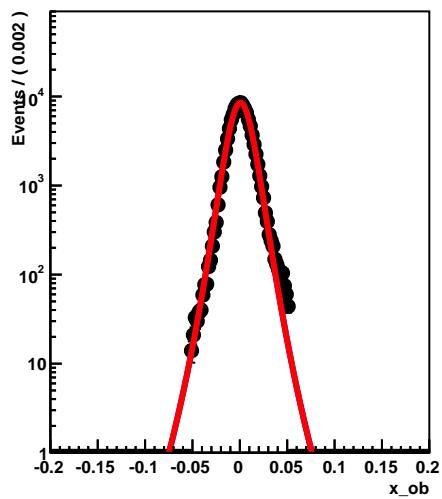
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.2-0.4]



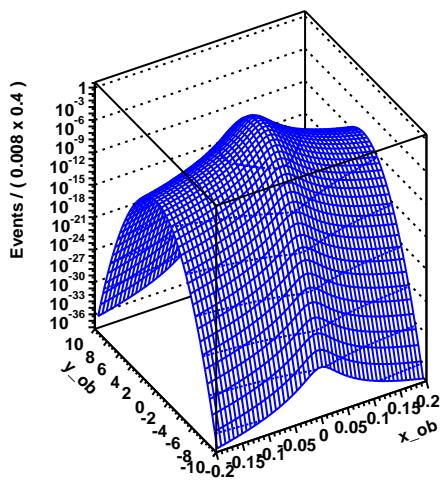
K nSigmaDEdx p[0.30-0.40]



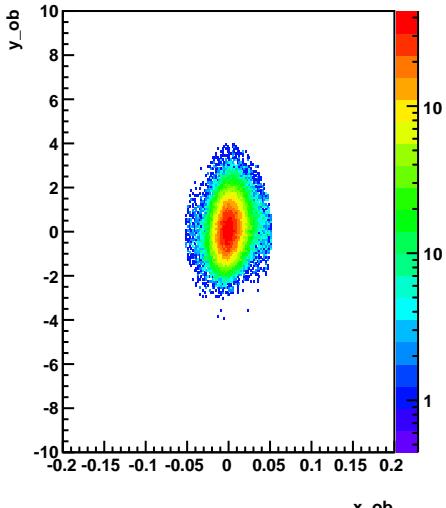
K dlnvBeta p[0.30-0.40]



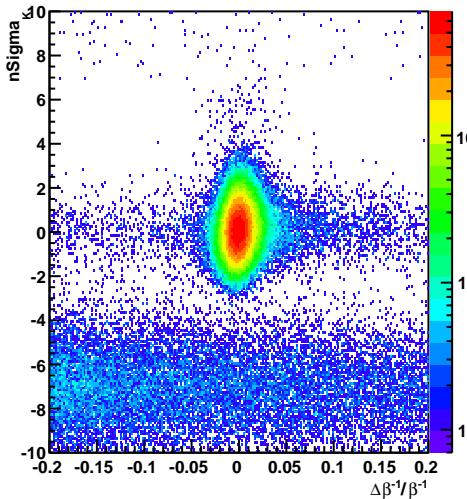
Histogram of hh\_sig\_x\_ob\_y\_ob



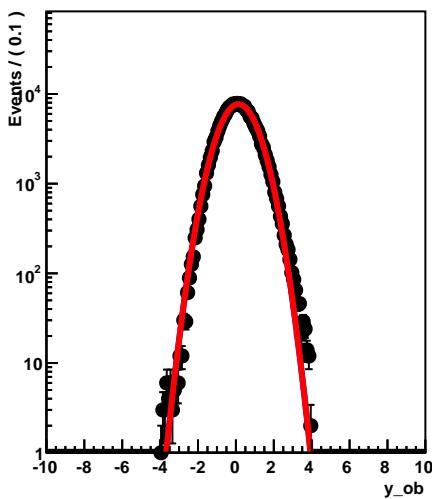
Histogram of hh\_data\_K\_x\_ob\_y\_ob



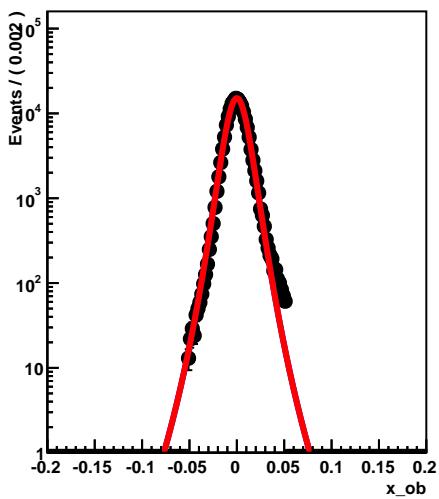
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.2-0.4]



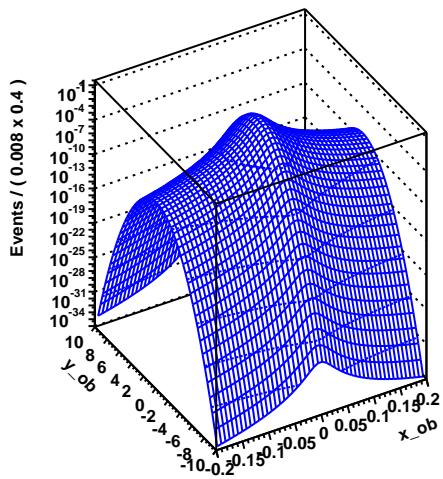
K nSigmaDEdx p[0.40-0.50]



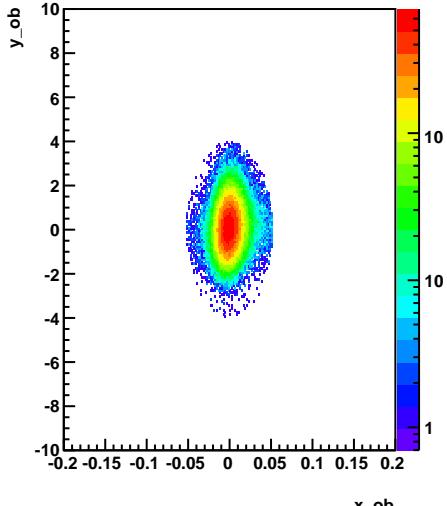
K dlnvBeta p[0.40-0.50]



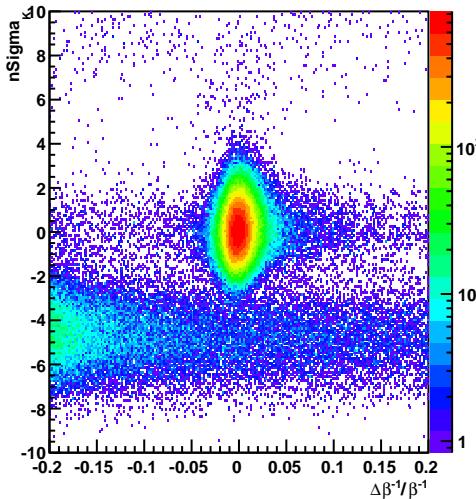
Histogram of hh\_sig\_x\_ob\_y\_ob



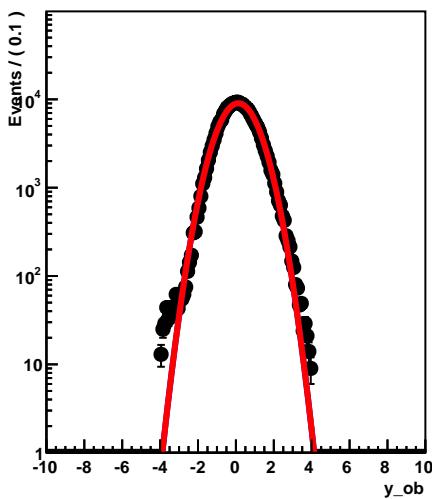
Histogram of hh\_data\_K\_x\_ob\_y\_ob



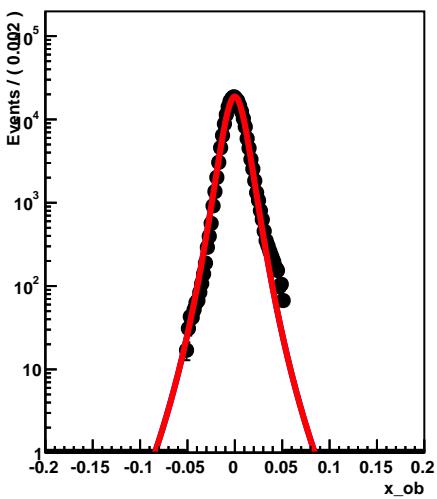
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] |η| [0.2-0.4]



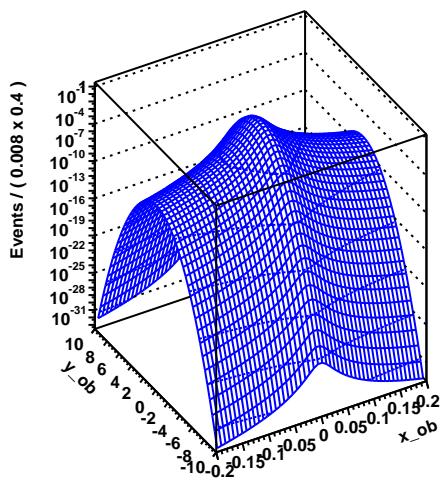
K nSigmaDEdx p[0.50-0.60]



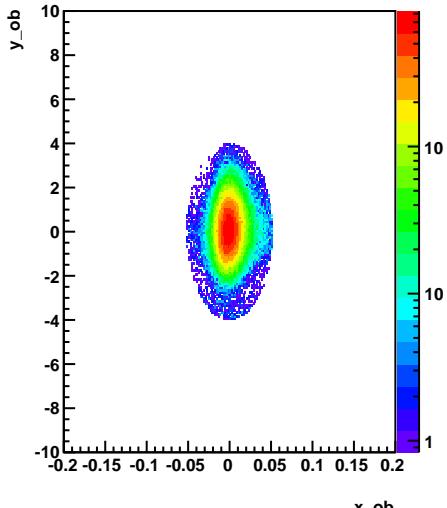
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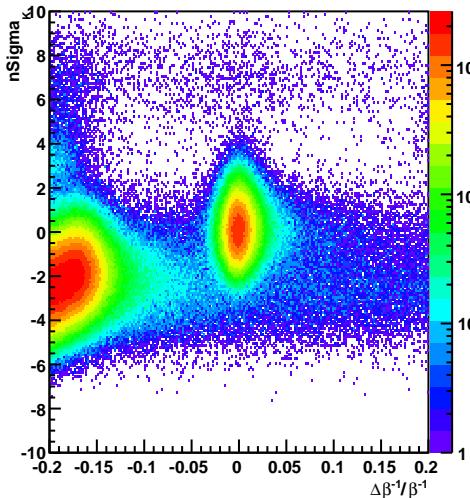
Histogram of hh\_sig\_x\_ob\_y\_ob



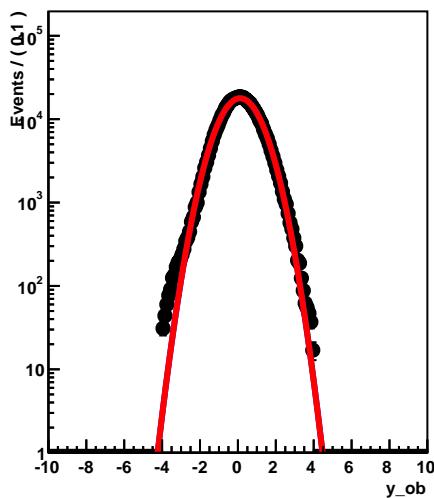
Histogram of hh\_data\_K\_x\_ob\_y\_ob



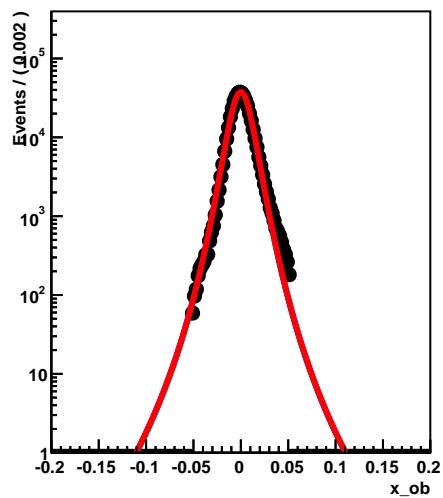
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.2-0.4]



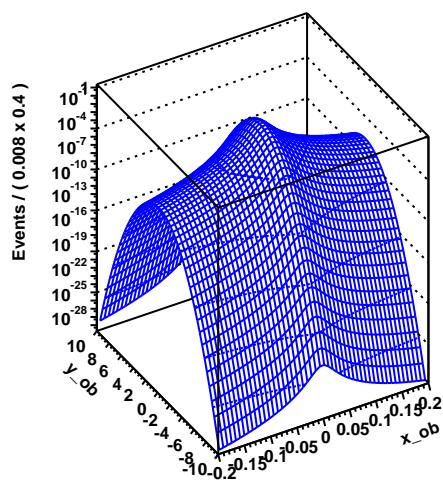
K nSigmaDEdx p[0.60-0.80]



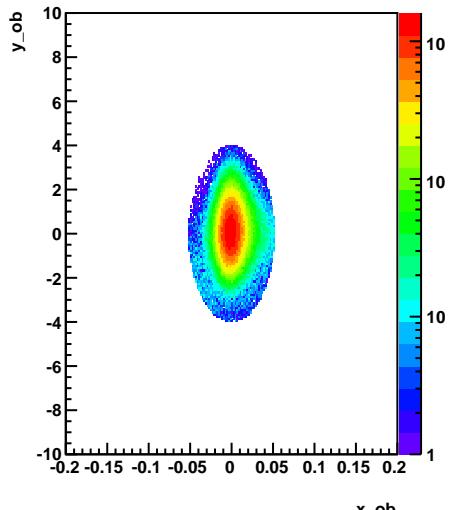
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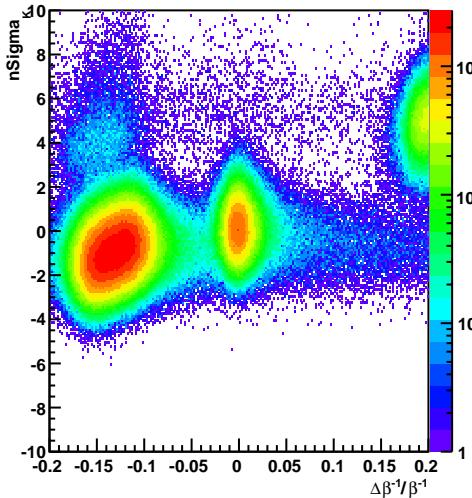
Histogram of hh\_sig\_x\_ob\_y\_ob



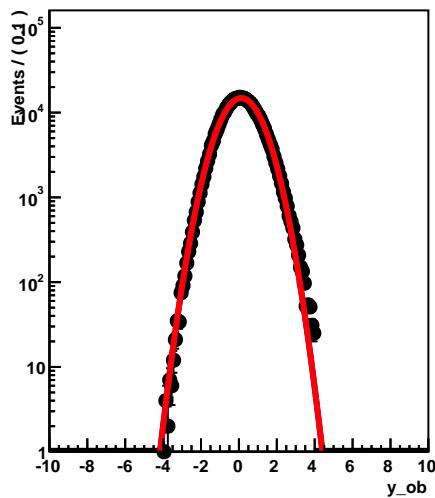
Histogram of hh\_data\_K\_x\_ob\_y\_ob



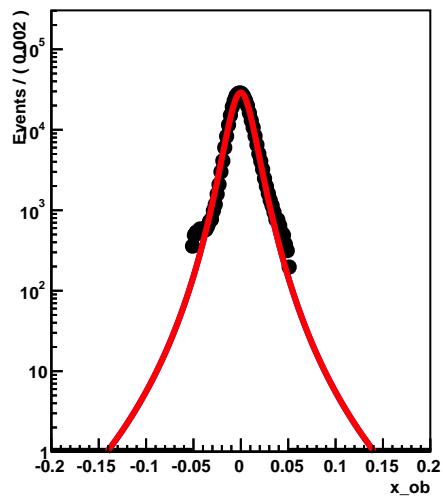
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.2-0.4]



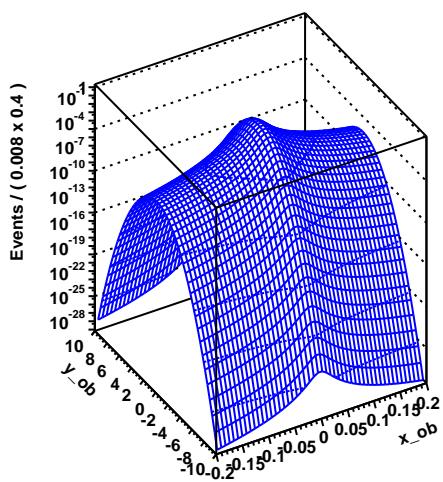
K nSigmaDEdx p[0.80-1.00]



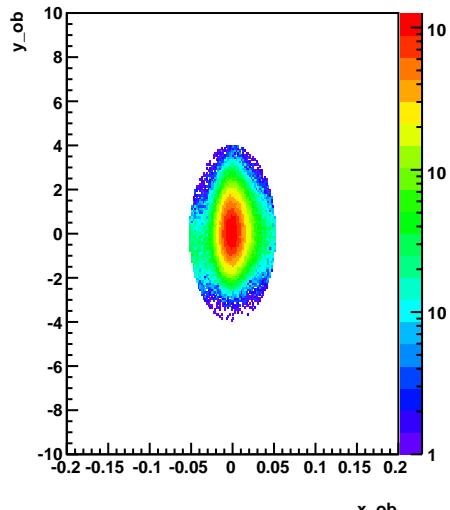
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Histogram of hh\_sig\_x\_ob\_y\_ob

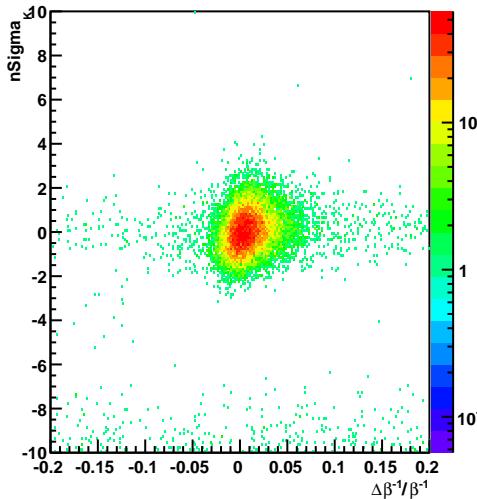


Histogram of hh\_data\_K\_x\_ob\_y\_ob

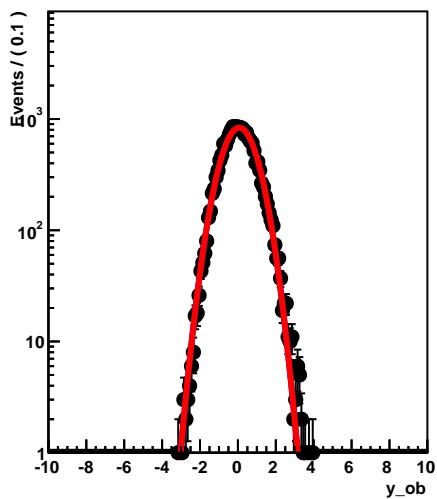




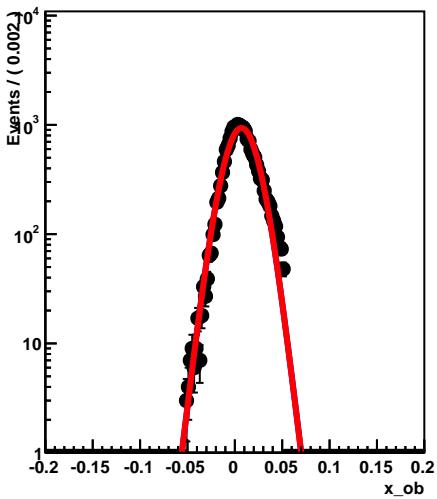
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.4-0.6]



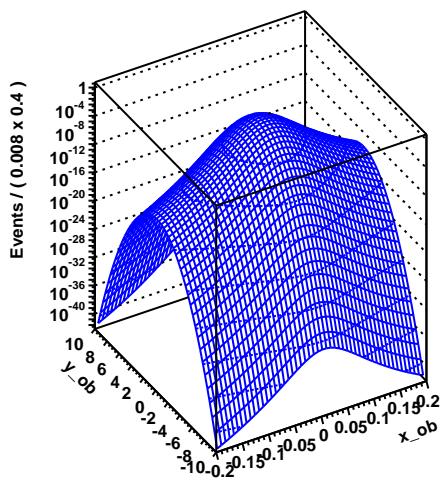
K nSigmaDEdx p[0.20-0.30]



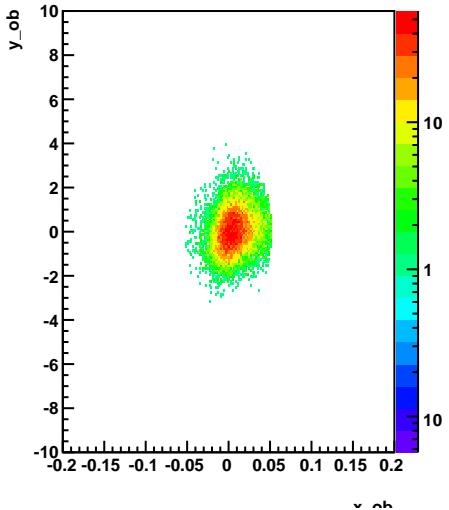
K dlnvBeta p[0.20-0.30]



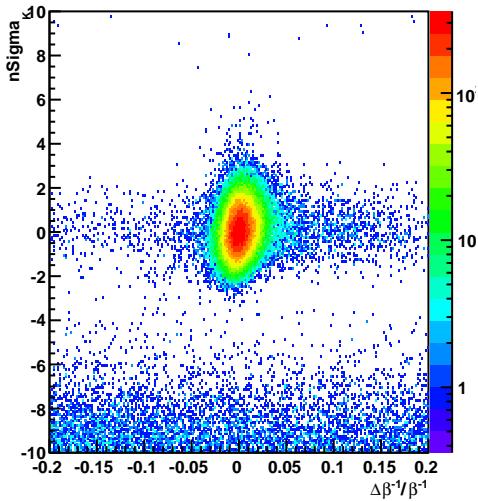
Histogram of hh\_sig\_x\_ob\_y\_ob



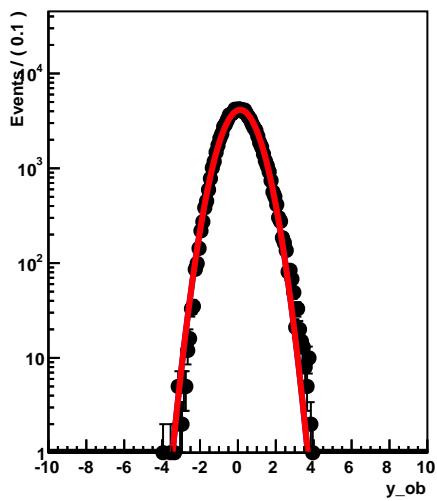
Histogram of hh\_data\_K\_x\_ob\_y\_ob



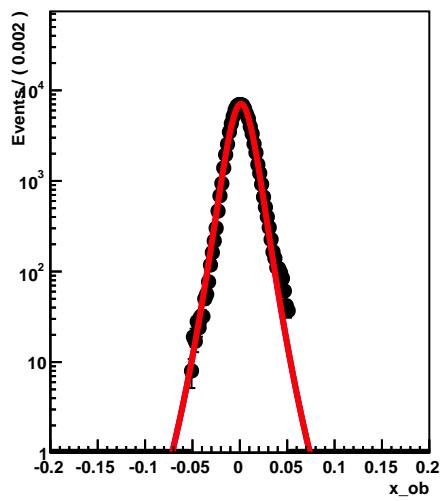
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] |η| [0.4-0.6]



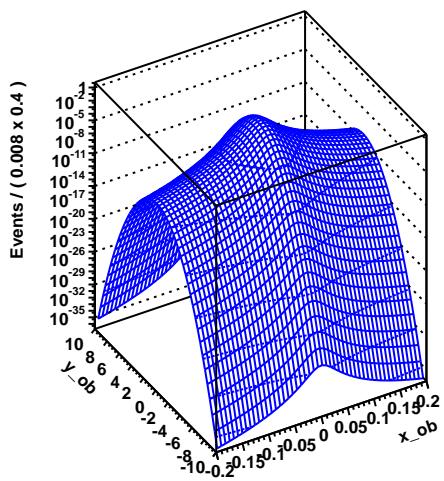
K nSigmaDEdx p[0.30-0.40]



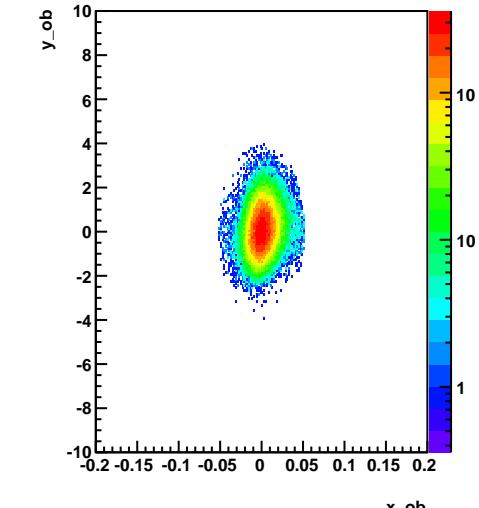
K dlnvBeta p[0.30-0.40]



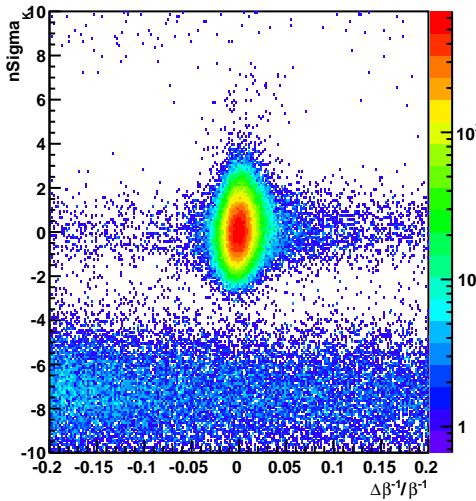
Histogram of hh\_sig\_x\_ob\_y\_ob



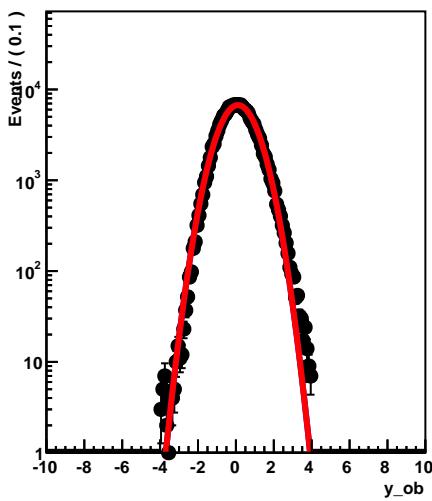
Histogram of hh\_data\_K\_x\_ob\_y\_ob



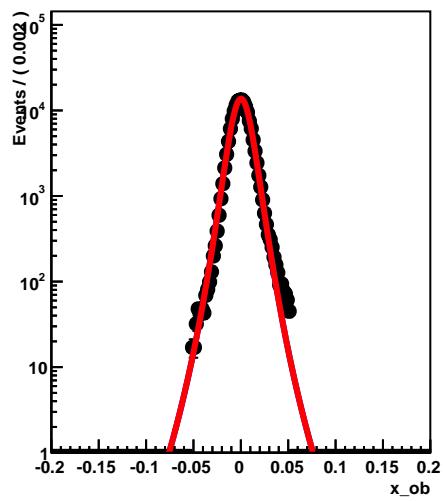
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.4-0.6]



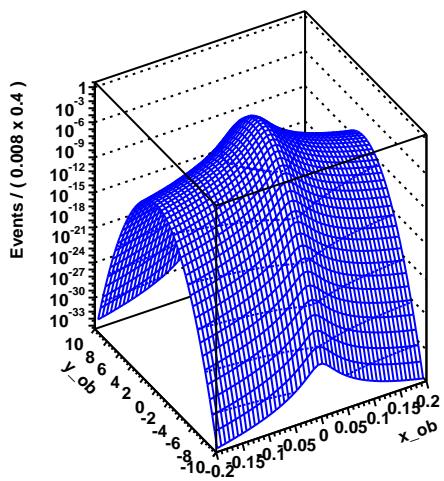
K nSigmaDEdx p[0.40-0.50]



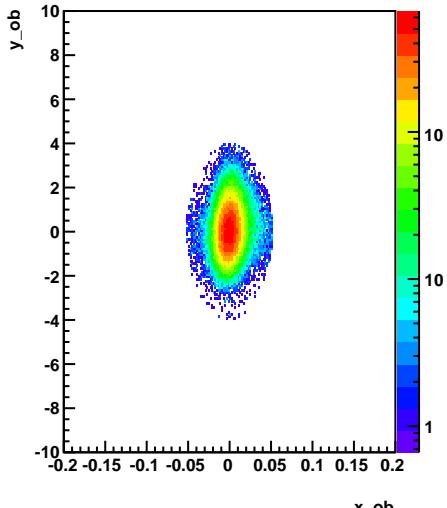
K dlnvBeta p[0.40-0.50]



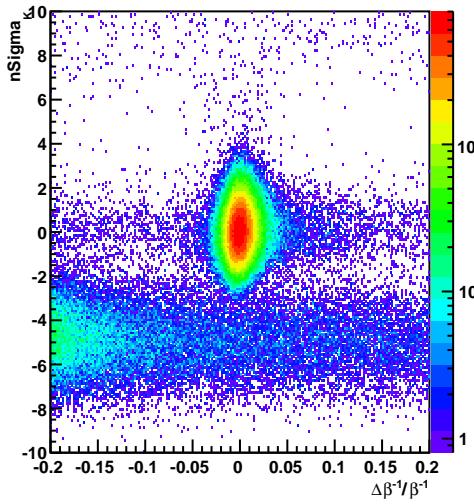
Histogram of hh\_sig\_x\_ob\_y\_ob



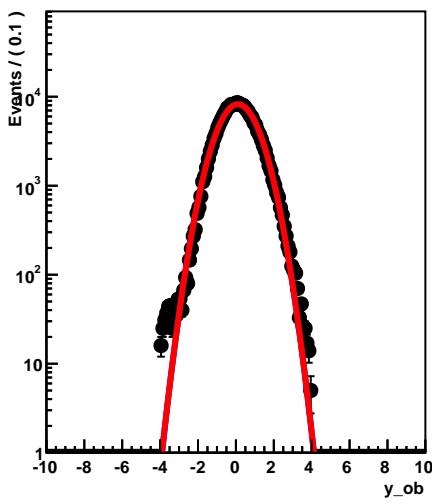
Histogram of hh\_data\_K\_x\_ob\_y\_ob



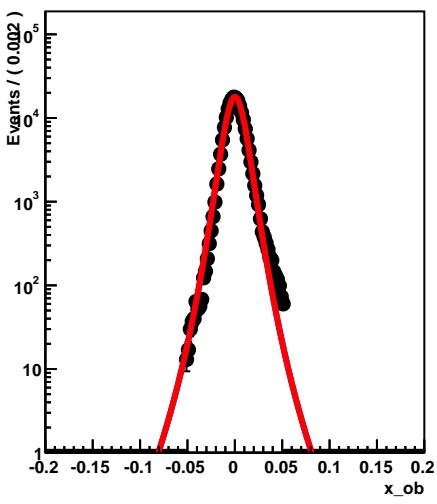
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.4-0.6]



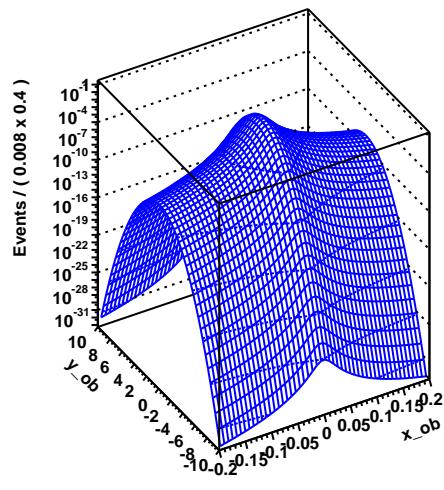
K nSigmaDEdx p[0.50-0.60]



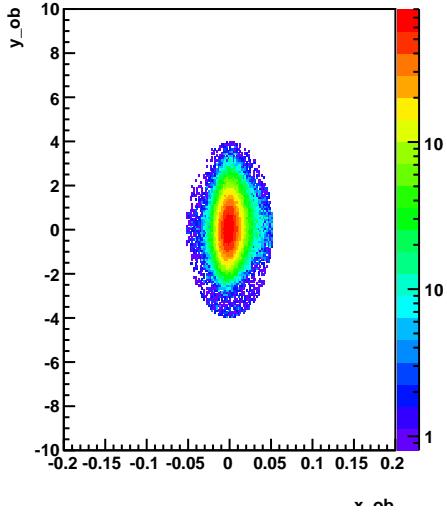
K dlnvBeta p[0.50-0.60]



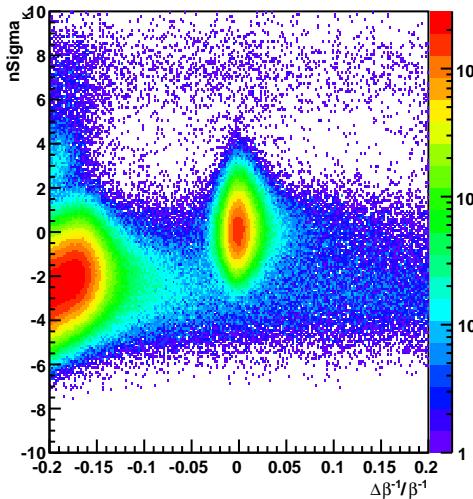
Histogram of hh\_sig\_x\_ob\_y\_ob



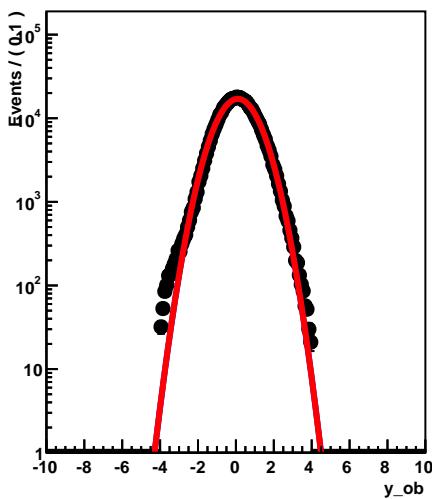
Histogram of hh\_data\_K\_x\_ob\_y\_ob



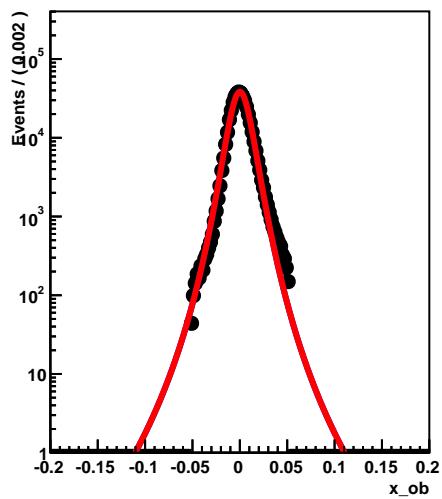
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.4-0.6]



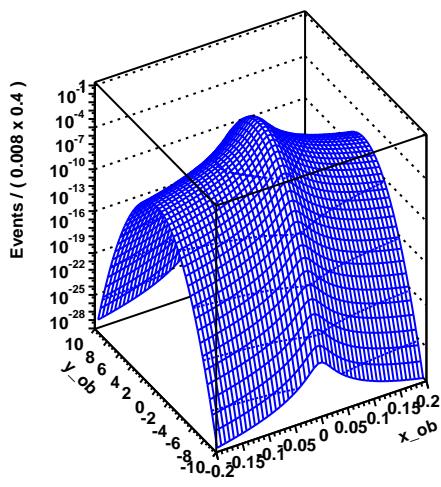
K nSigmaDEdx p[0.60-0.80]



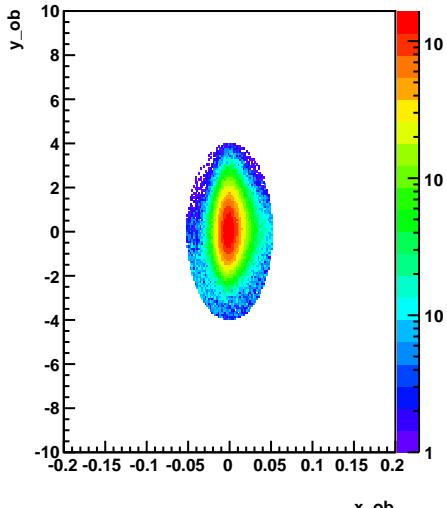
K dlnvBeta p[0.60-0.80]



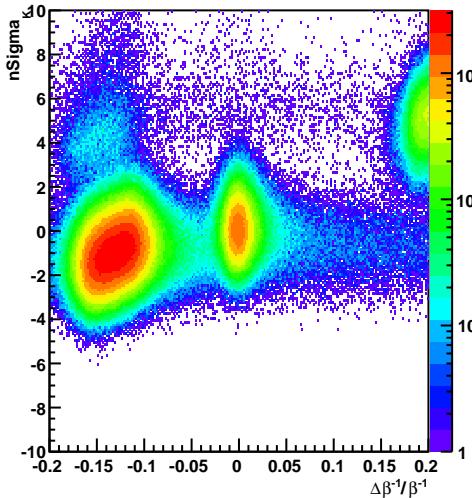
Histogram of hh\_sig\_x\_ob\_y\_ob



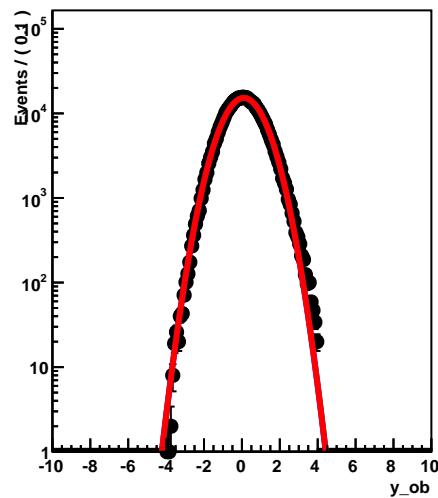
Histogram of hh\_data\_K\_x\_ob\_y\_ob



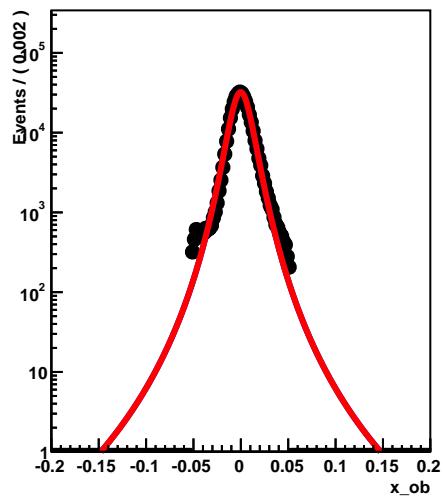
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.4-0.6]



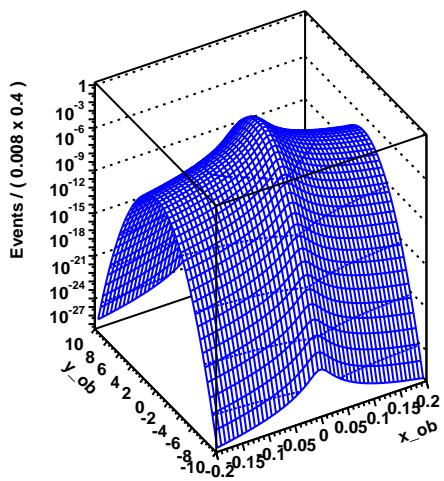
K nSigmaDEdx p[0.80-1.00]



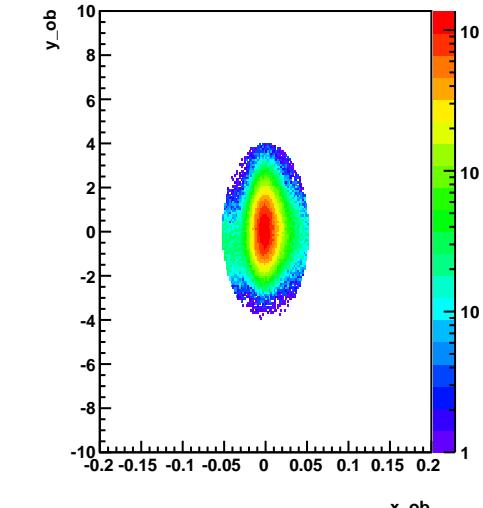
K dlnvBeta p[0.80-1.00]



Histogram of hh\_sig\_x\_ob\_y\_ob

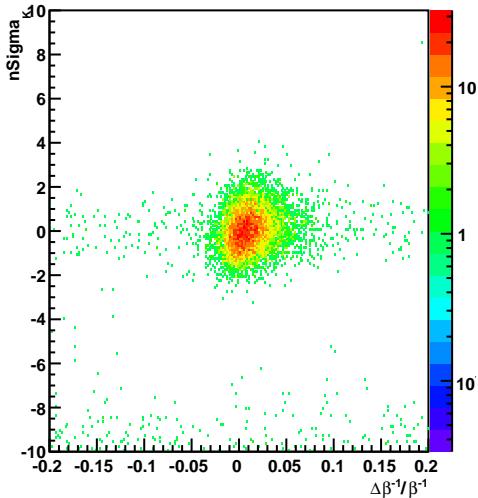


Histogram of hh\_data\_K\_x\_ob\_y\_ob

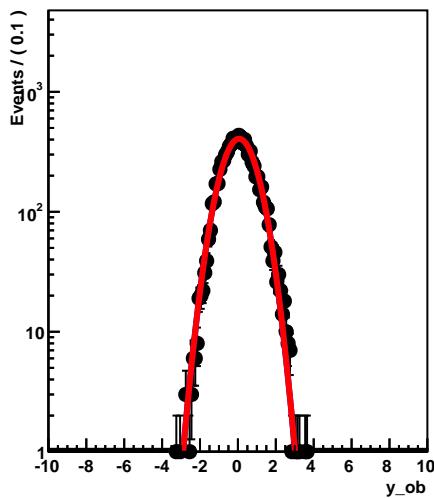




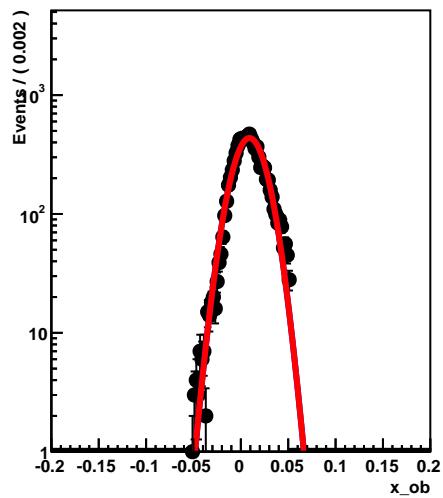
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.6-0.8]



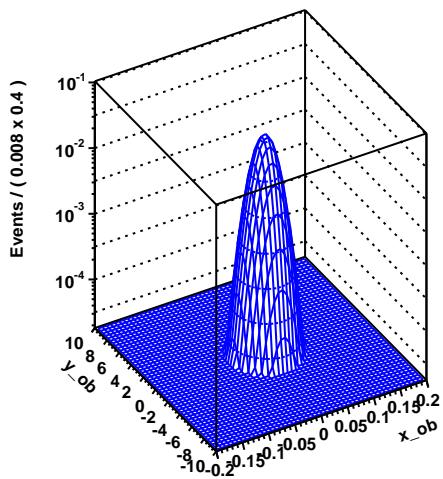
K nSigmaDEdx p[0.20-0.30]



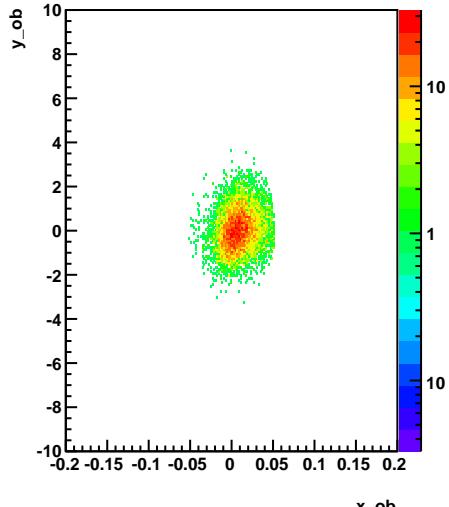
K dlnvBeta p[0.20-0.30]



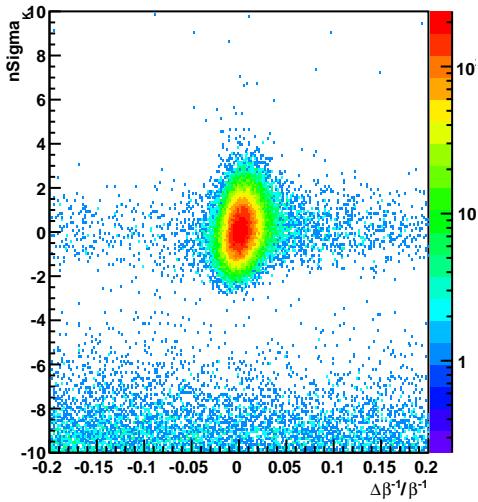
Histogram of hh\_sig\_x\_ob\_y\_ob



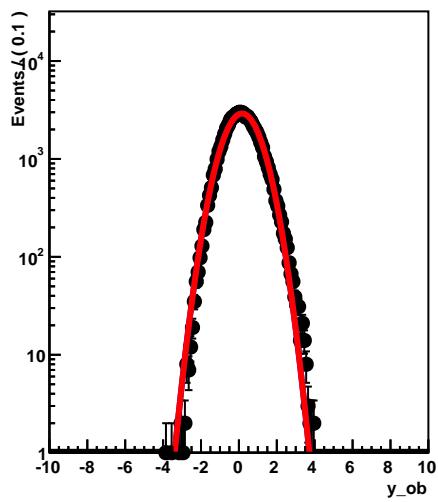
Histogram of hh\_data\_K\_x\_ob\_y\_ob



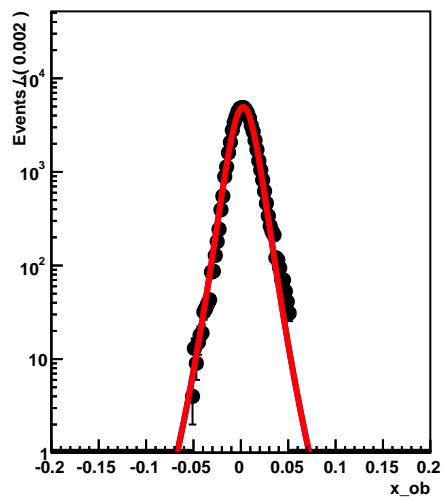
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.6-0.8]



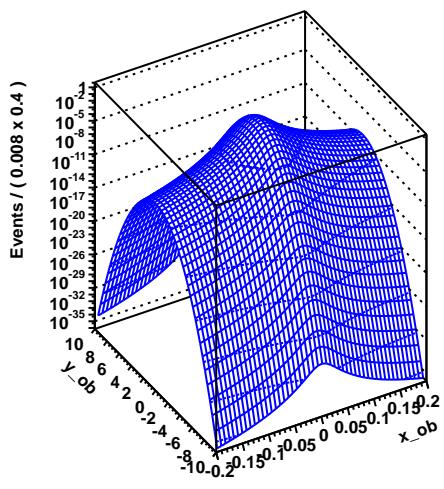
K nSigmaDEdx p[0.30-0.40]



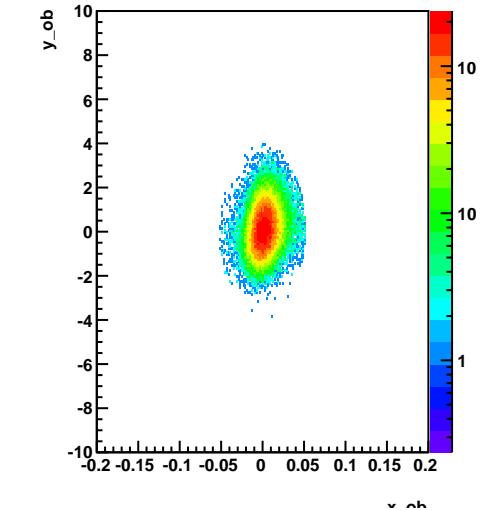
K dlnvBeta p[0.30-0.40]



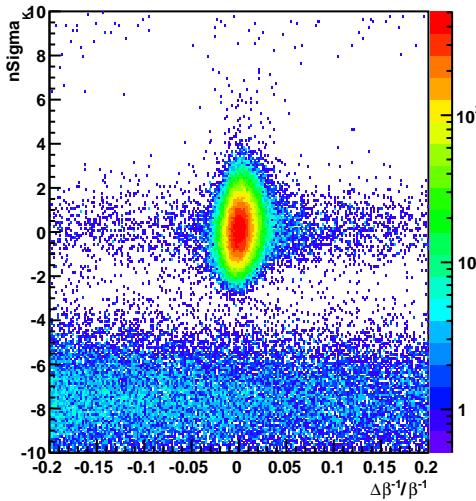
Histogram of hh\_sig\_x\_ob\_y\_ob



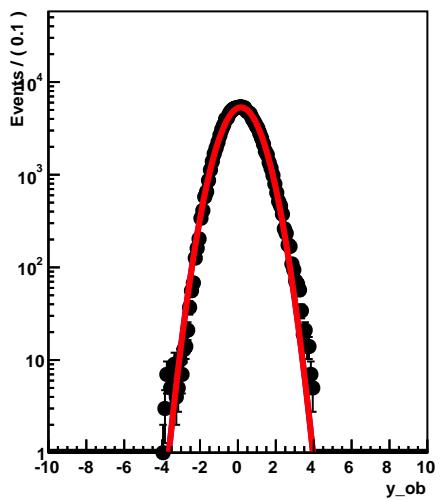
Histogram of hh\_data\_K\_x\_ob\_y\_ob



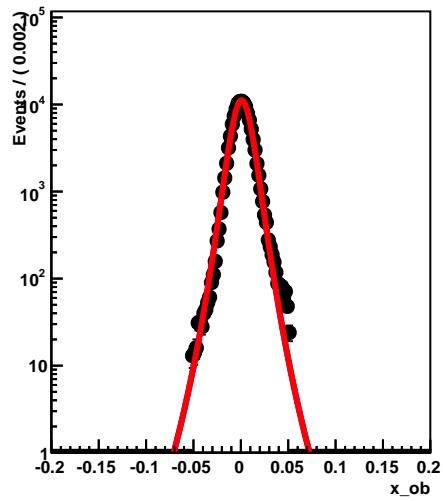
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.6-0.8]



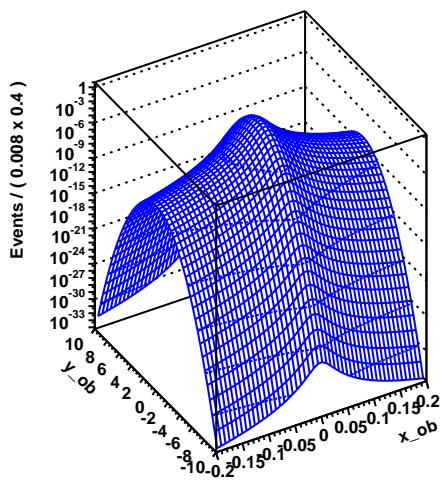
K nSigmaDEdx p[0.40-0.50]



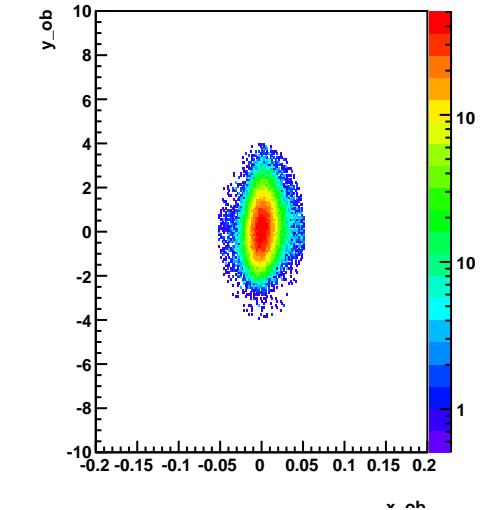
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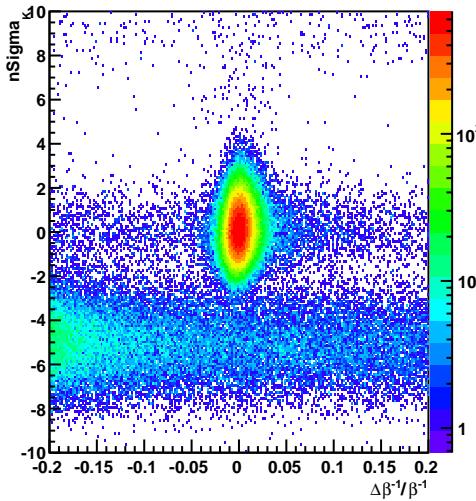
Histogram of hh\_sig\_x\_ob\_y\_ob



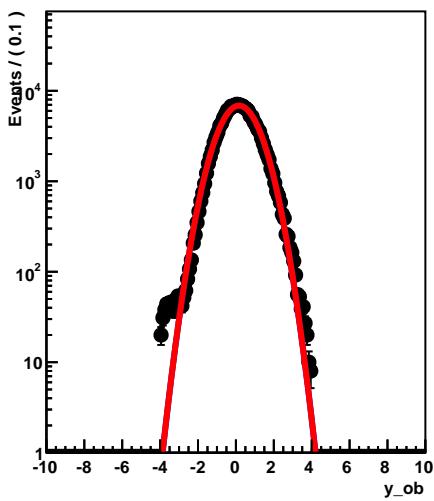
Histogram of hh\_data\_K\_x\_ob\_y\_ob



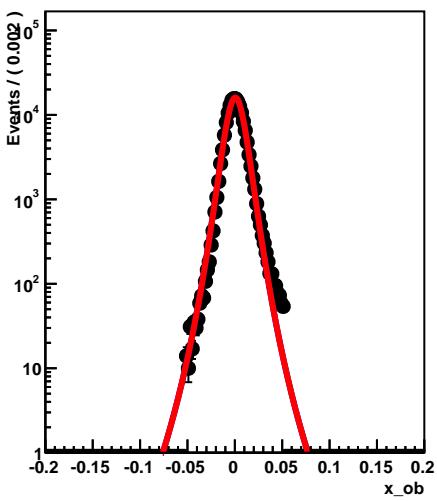
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60]  $|\eta|$  [0.6-0.8]



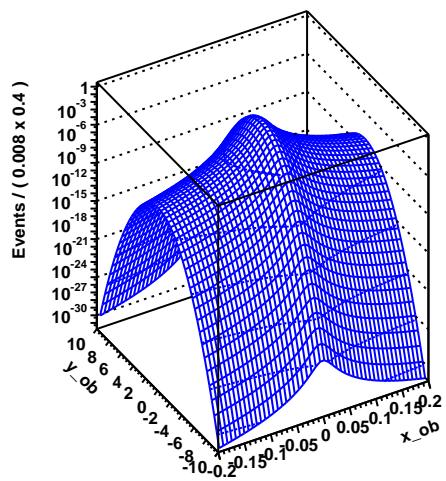
K nSigmaDEdx p[0.50-0.60]



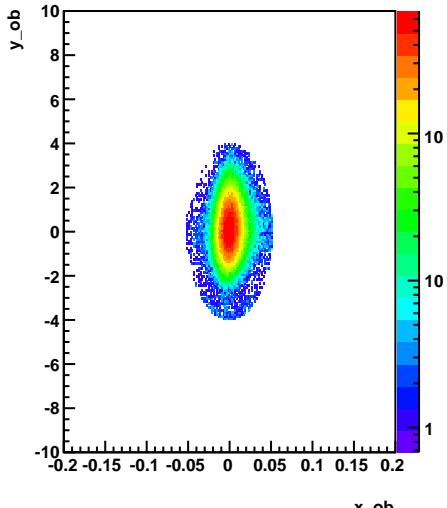
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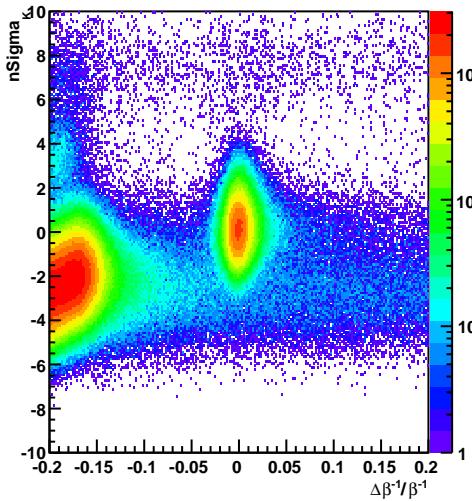
Histogram of hh\_sig\_x\_ob\_y\_ob



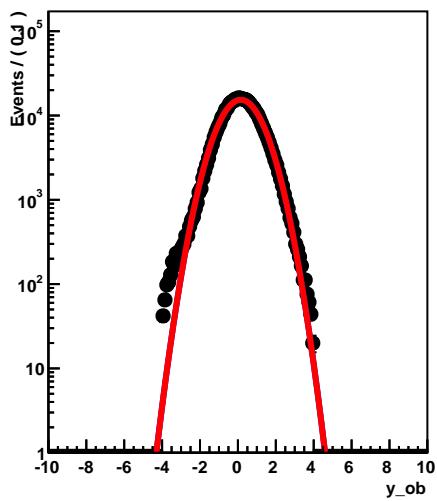
Histogram of hh\_data\_K\_x\_ob\_y\_ob



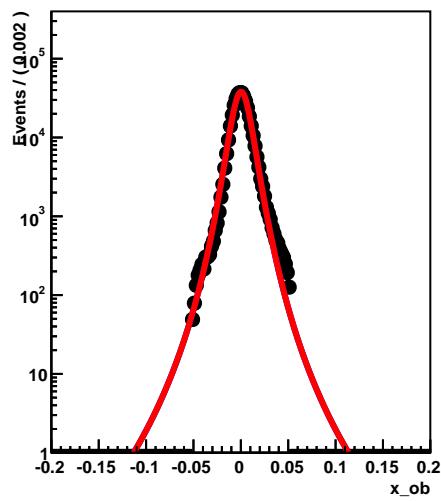
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.6-0.8]



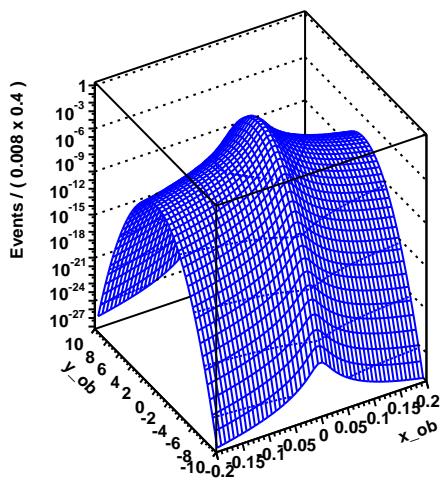
K nSigmaDEdx p[0.60-0.80]



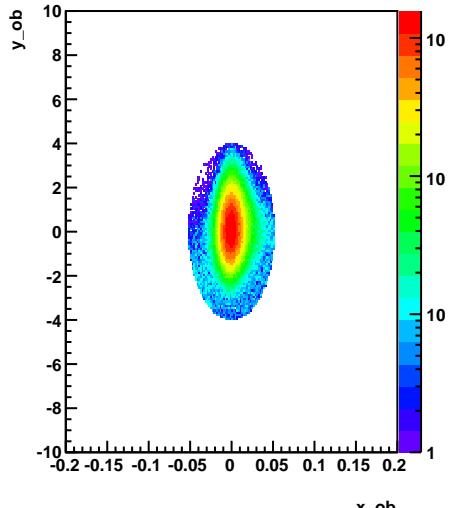
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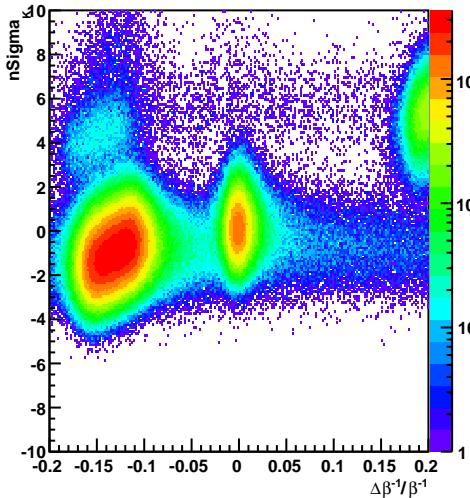
Histogram of hh\_sig\_x\_ob\_y\_ob



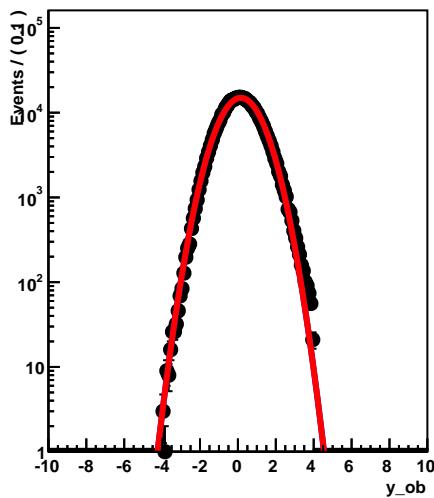
Histogram of hh\_data\_K\_x\_ob\_y\_ob



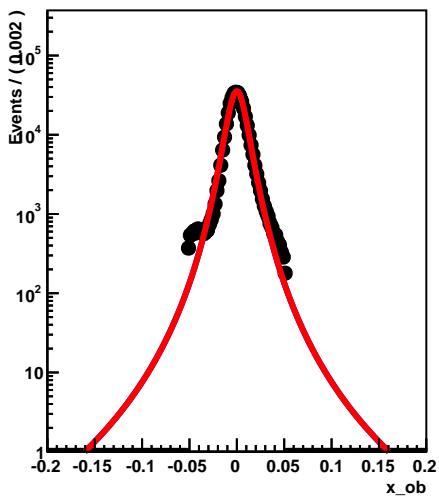
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.6-0.8]



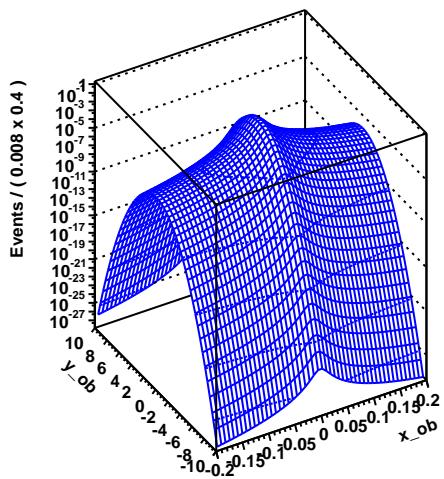
K nSigmaDEdx p[0.80-1.00]



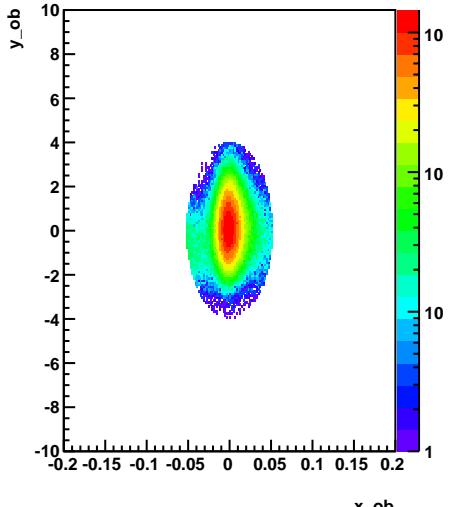
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Histogram of hh\_sig\_x\_ob\_y\_ob

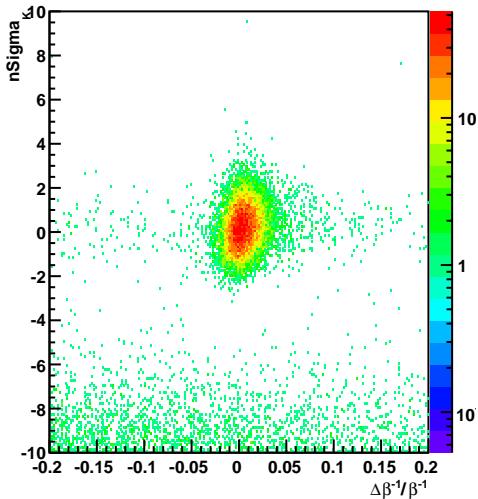


Histogram of hh\_data\_K\_x\_ob\_y\_ob

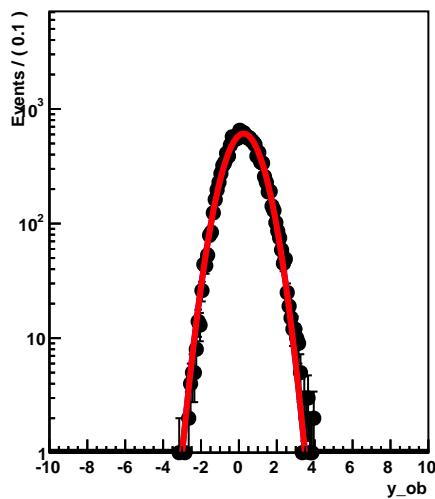




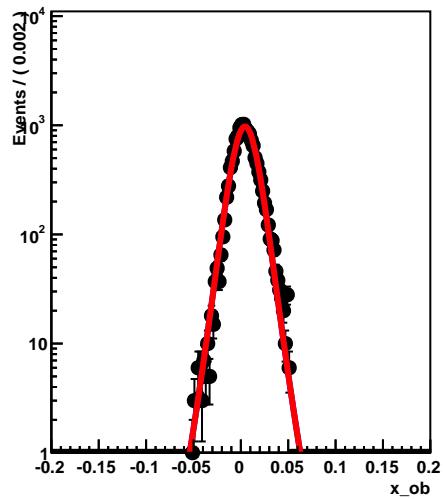
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40]  $|\eta|$  [0.8-1.0]



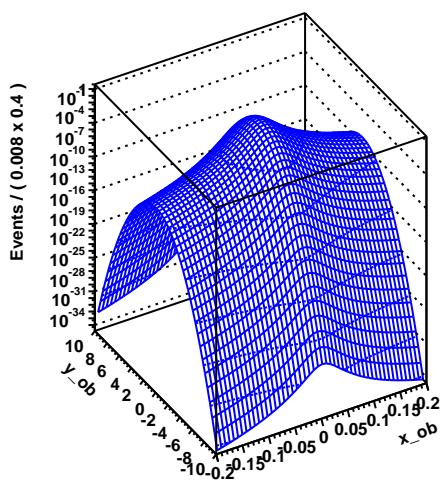
K nSigmaDEdx p[0.30-0.40]



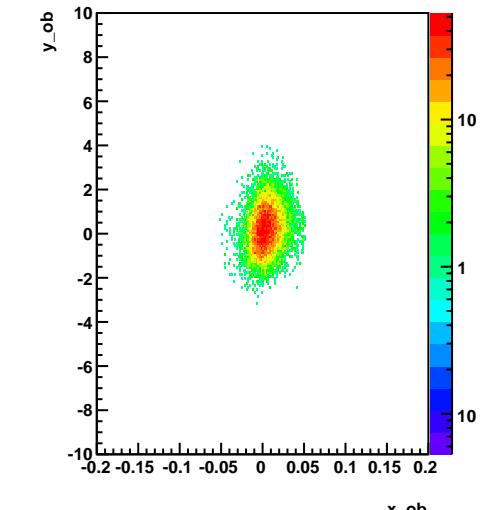
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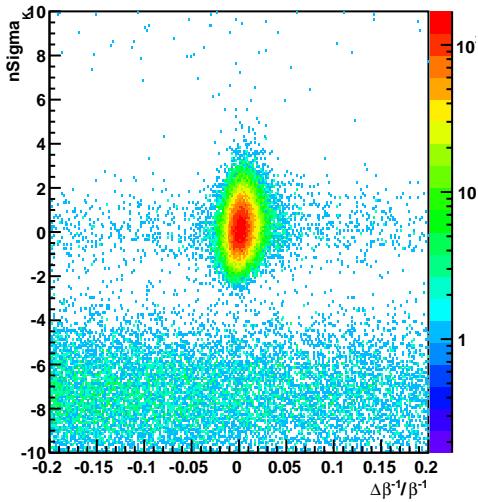
Histogram of hh\_sig\_x\_ob\_y\_ob



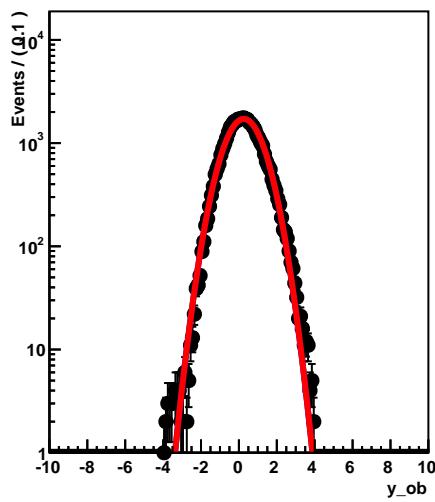
Histogram of hh\_data\_K\_x\_ob\_y\_ob



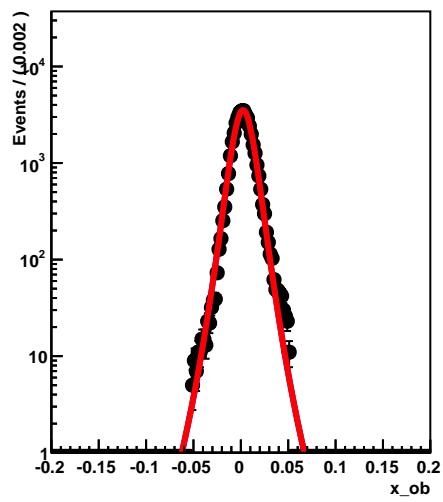
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.8-1.0]



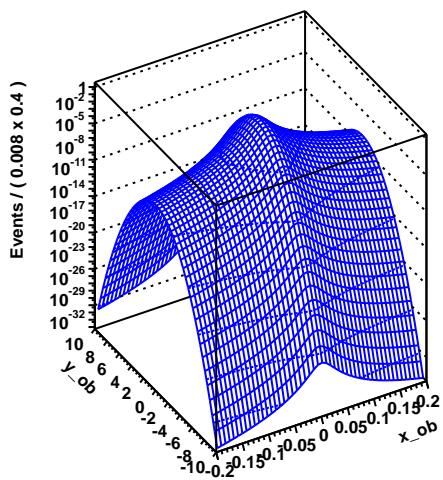
K nSigmaDEdx p[0.40-0.50]



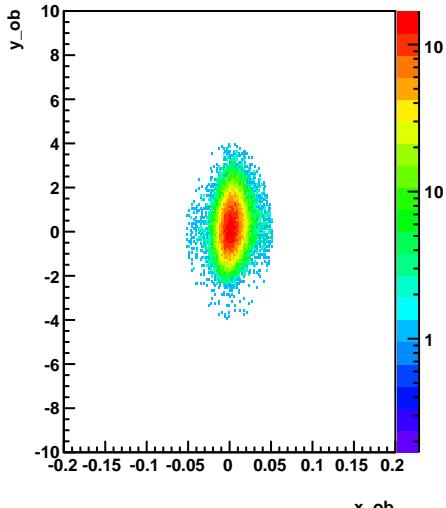
K dlnvBeta p[0.40-0.50]



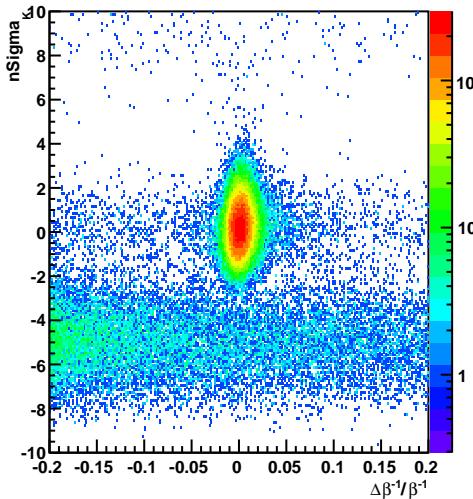
Histogram of hh\_sig\_x\_ob\_y\_ob



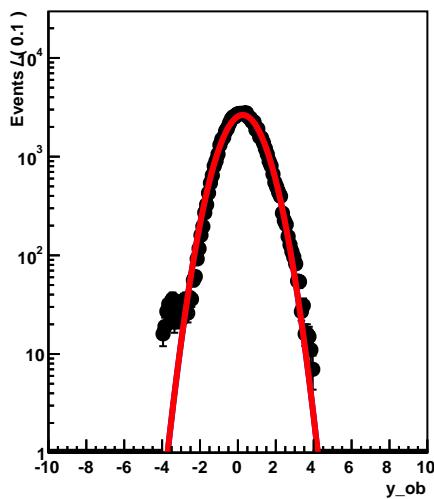
Histogram of hh\_data\_K\_x\_ob\_y\_ob



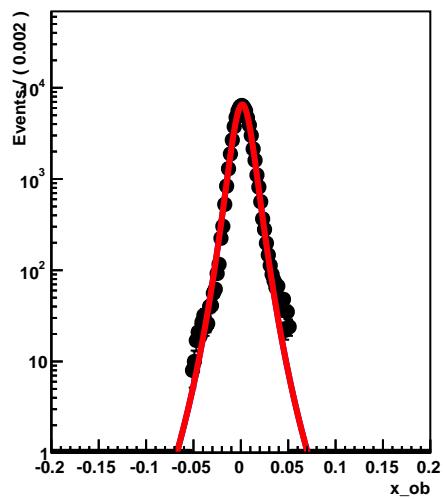
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60]  $|\eta|$  [0.8-1.0]



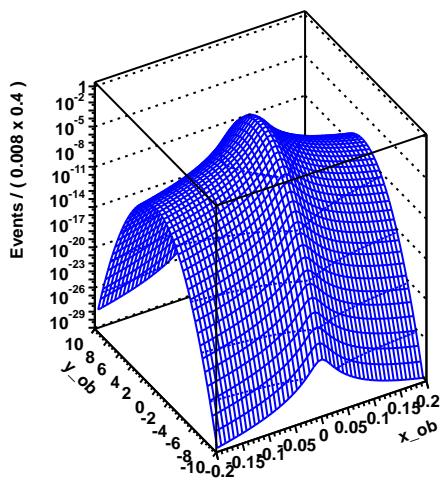
K nSigmaDEdx p[0.50-0.60]



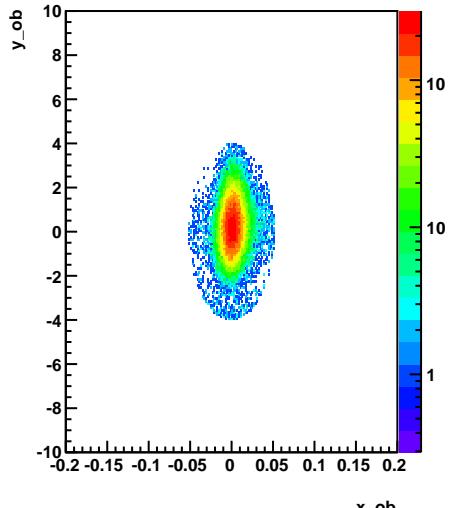
K dlnvBeta p[0.50-0.60]



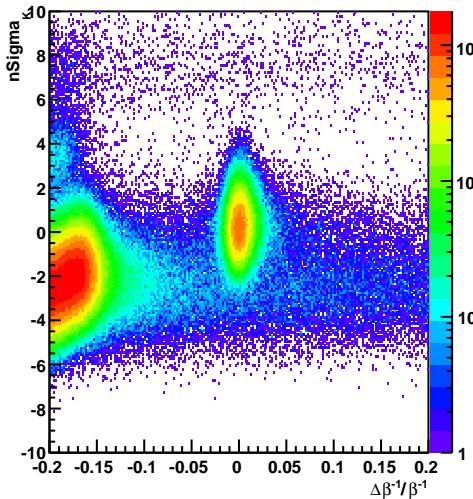
Histogram of hh\_sig\_x\_ob\_y\_ob



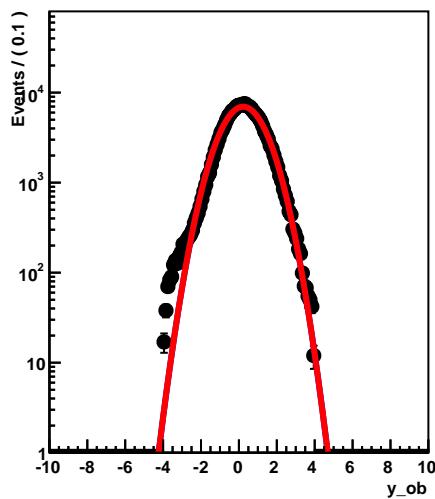
Histogram of hh\_data\_K\_x\_ob\_y\_ob



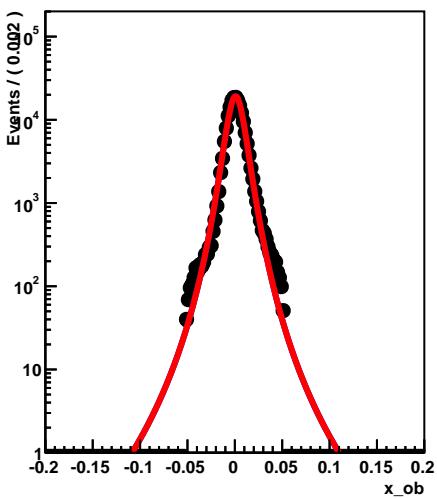
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.8-1.0]



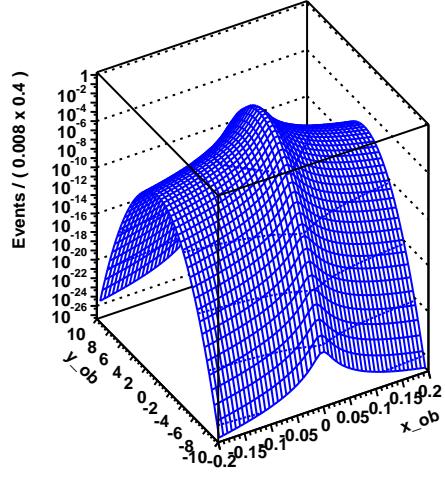
K nSigmaDEdx p[0.60-0.80]



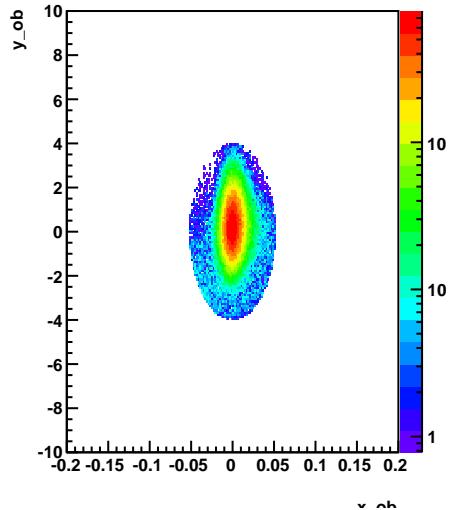
K dlnvBeta p[0.60-0.80]



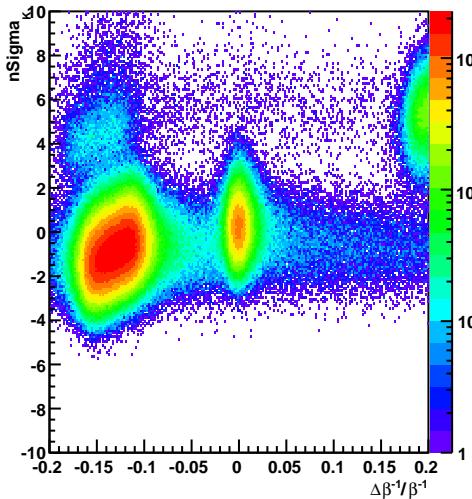
Histogram of hh\_sig\_x\_ob\_y\_ob



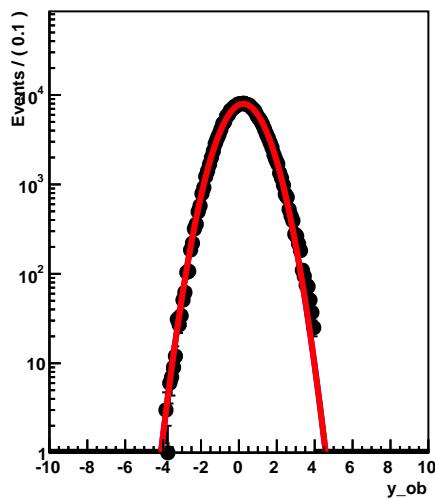
Histogram of hh\_data\_K\_x\_ob\_y\_ob



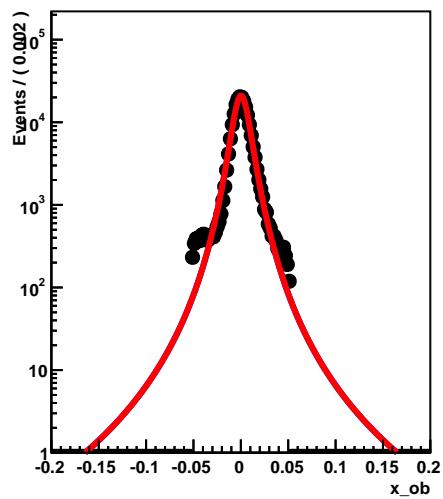
nσ vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] |η| [0.8-1.0]



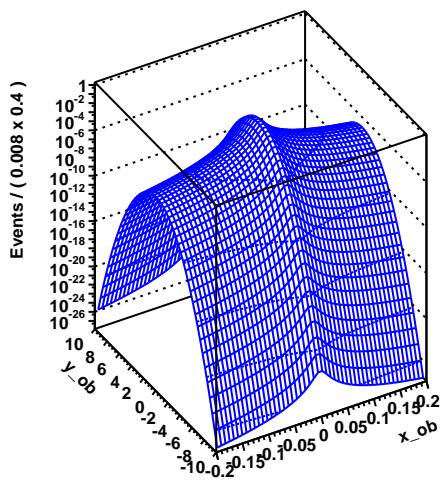
K nSigmaDEdx p[0.80-1.00]



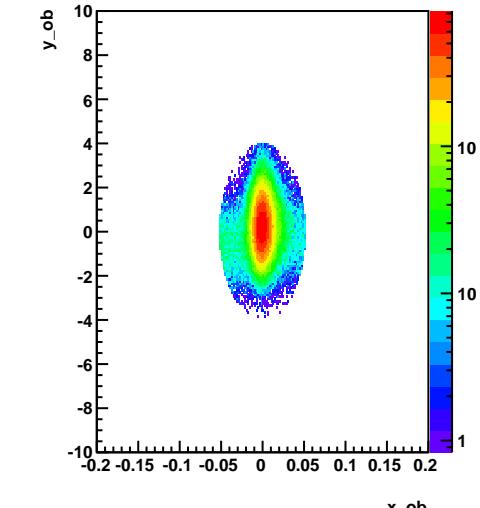
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Histogram of hh\_sig\_x\_ob\_y\_ob

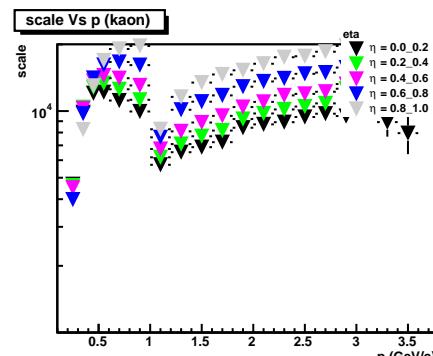
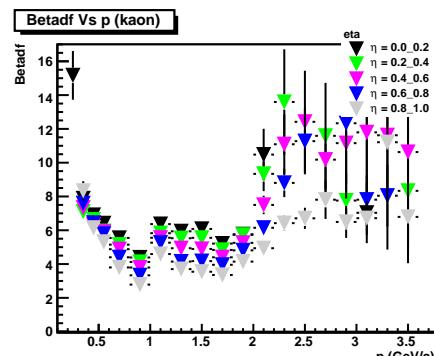
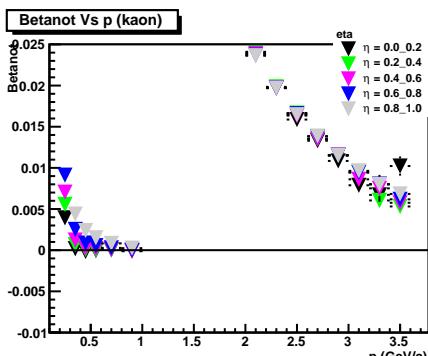
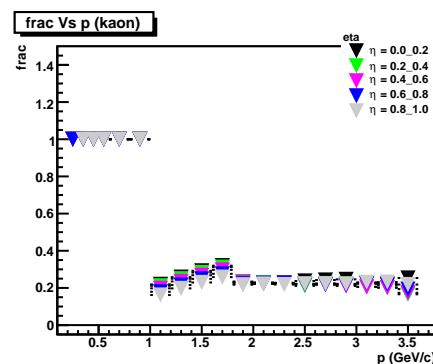
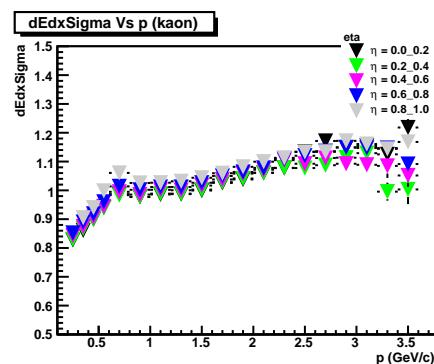
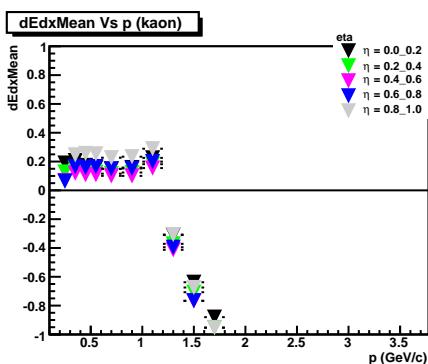
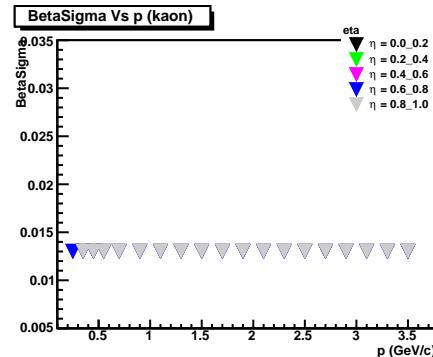
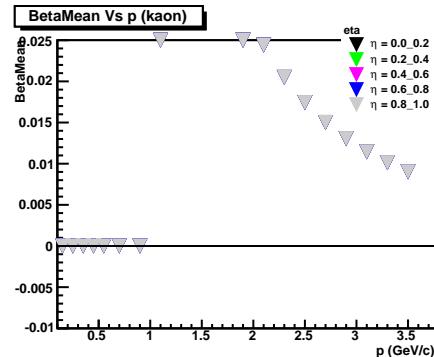
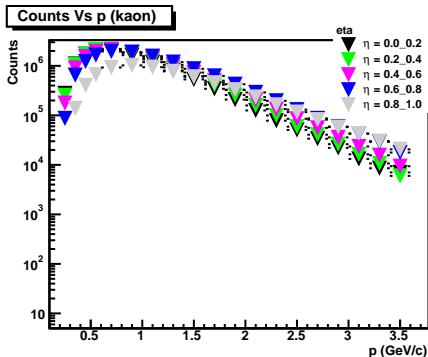


Histogram of hh\_data\_K\_x\_ob\_y\_ob

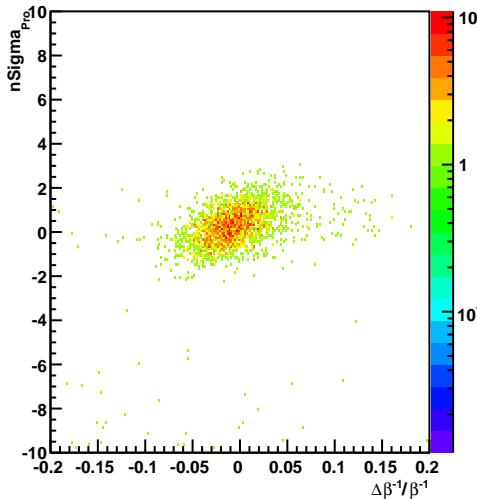




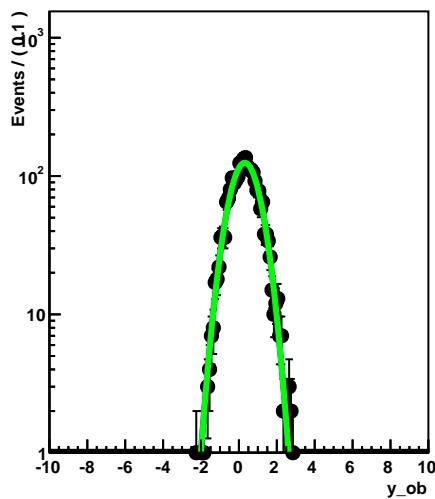




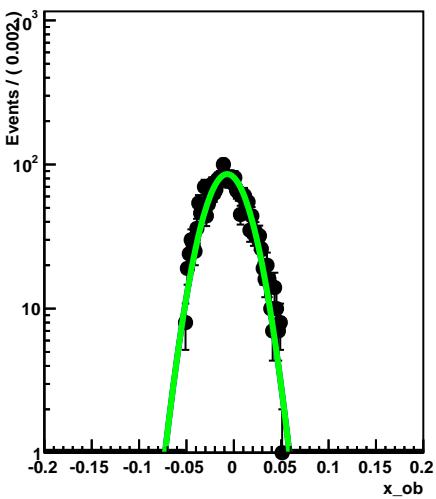
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.0-0.2]



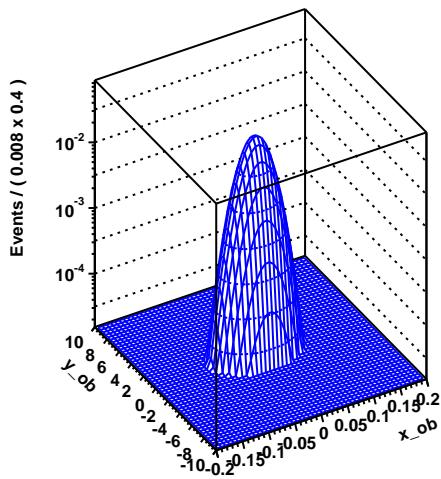
Pro nSigmaDEdx p[0.20-0.30]



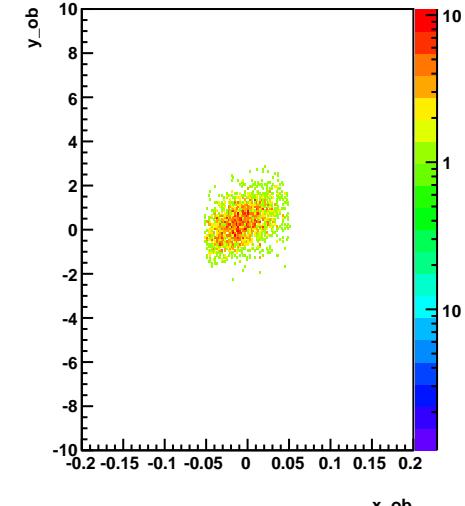
Pro dInvBeta p[0.20-0.30]



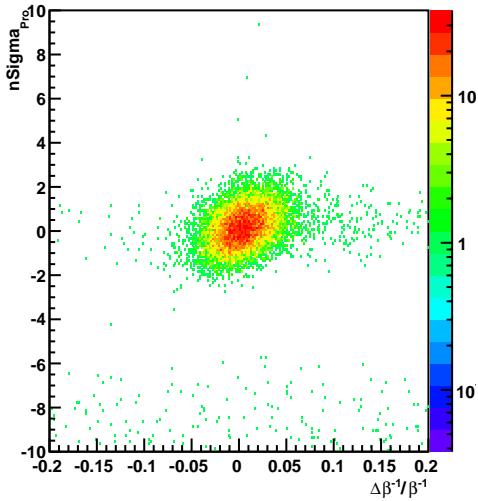
Histogram of hh\_sig\_x\_ob\_y\_ob



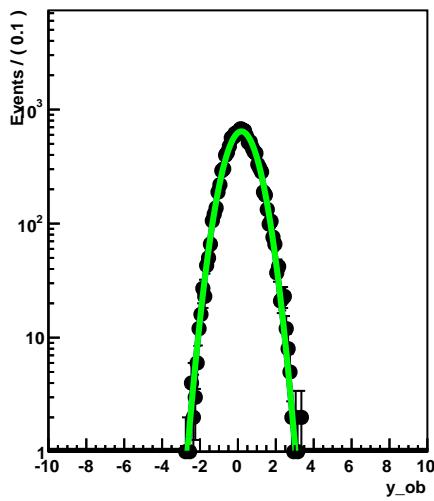
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



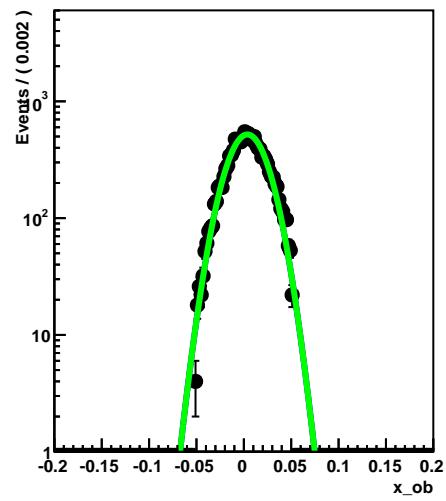
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.0-0.2]



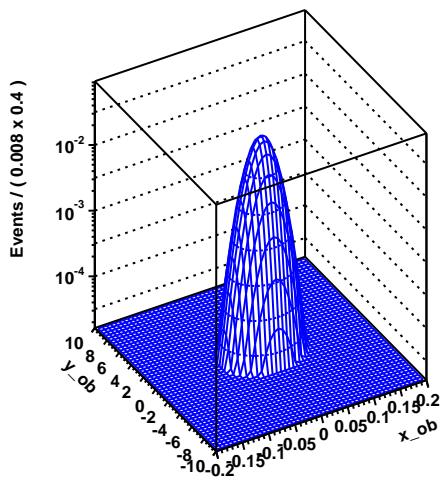
Pro nSigmaDEdx p[0.30-0.40]



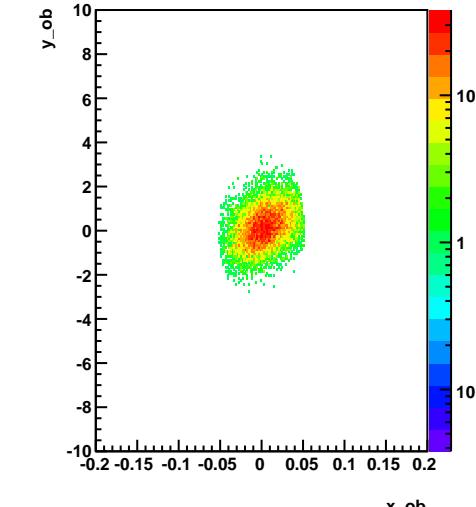
Pro dInvBeta p[0.30-0.40]



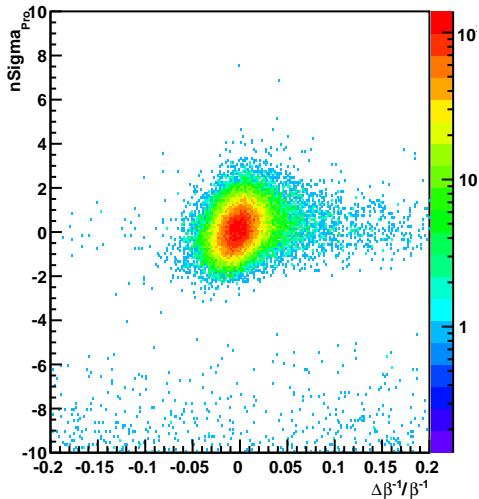
Histogram of hh\_sig\_x\_ob\_y\_ob



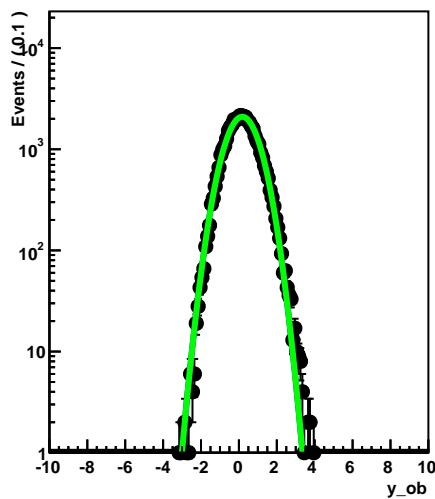
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



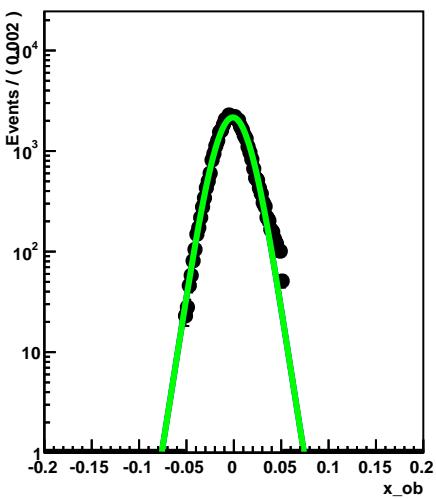
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.0-0.2]



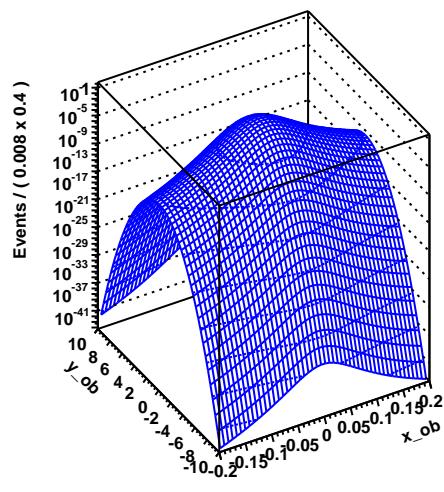
Pro nSigmaDEdx p[0.40-0.50]



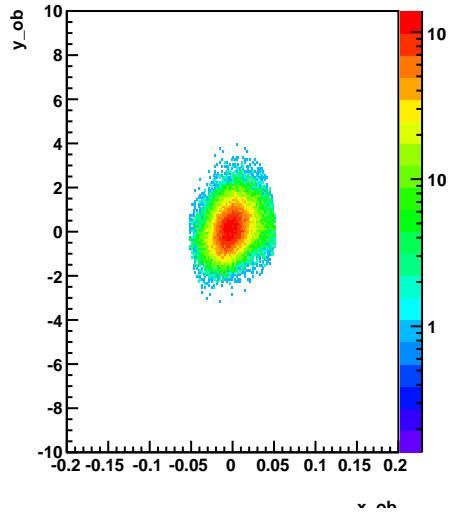
Pro dInvBeta p[0.40-0.50]



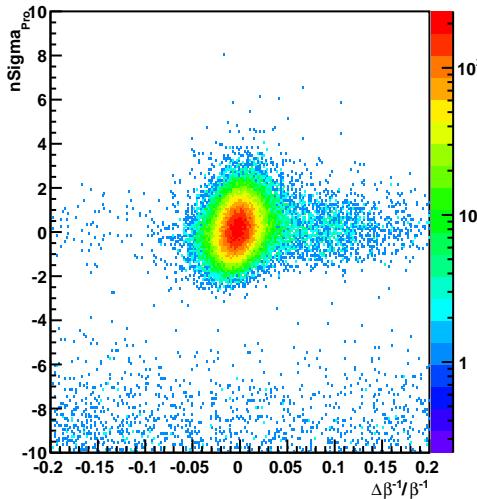
Histogram of hh\_sig\_x\_ob\_y\_ob



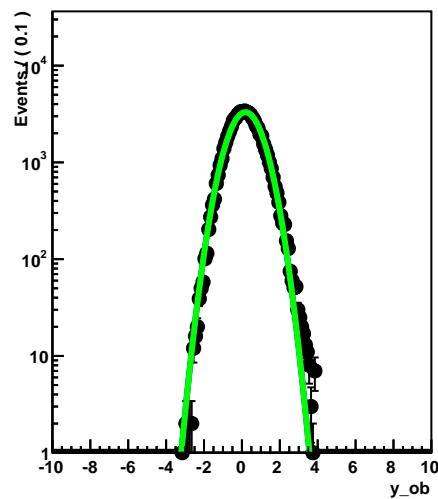
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



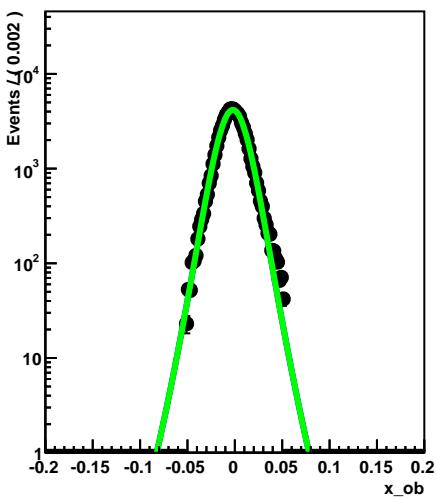
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60]  $|\eta|$  [0.0-0.2]



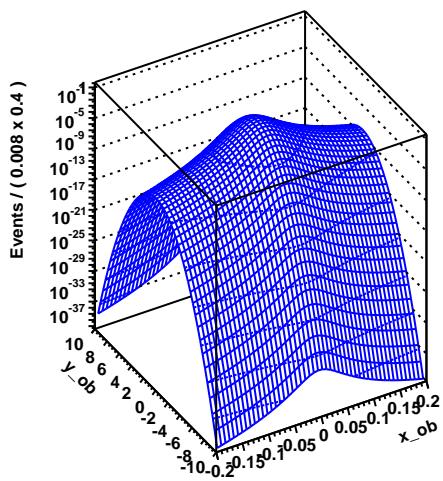
Pro nSigmaDEdx p[0.50-0.60]



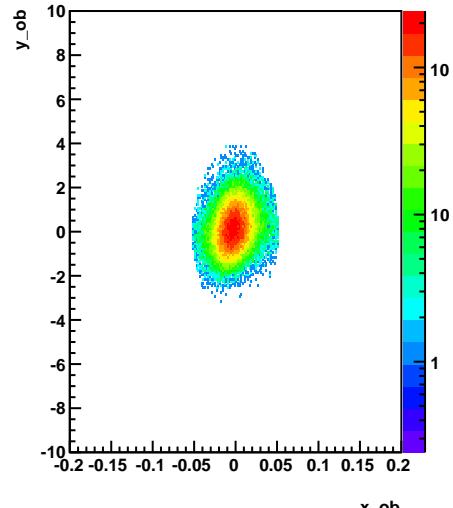
Pro dInvBeta p[0.50-0.60]



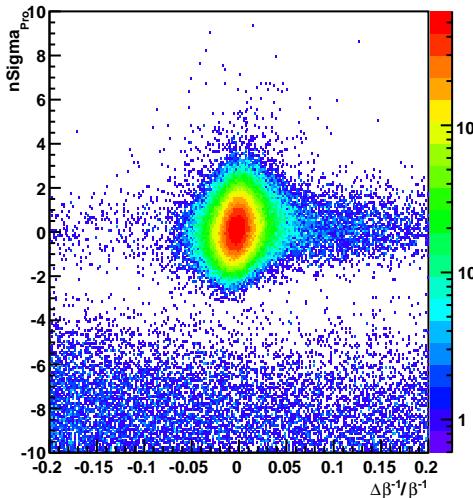
Histogram of hh\_sig\_x\_ob\_y\_ob



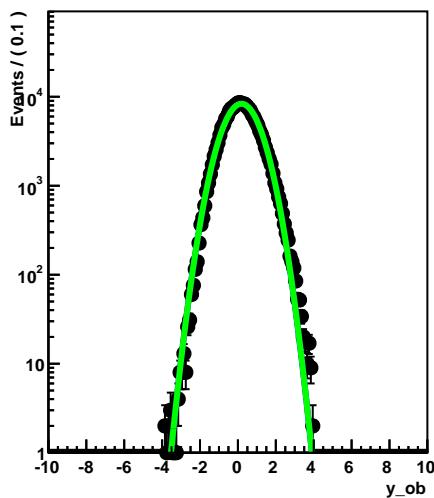
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



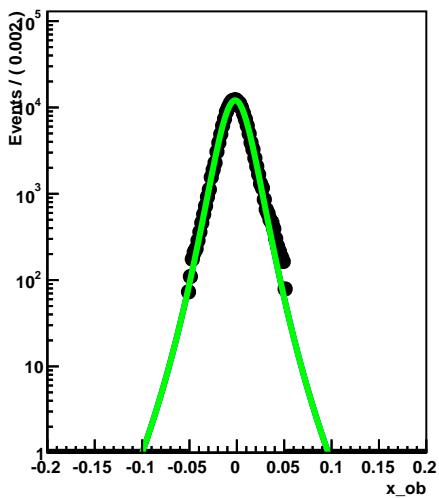
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.0-0.2]



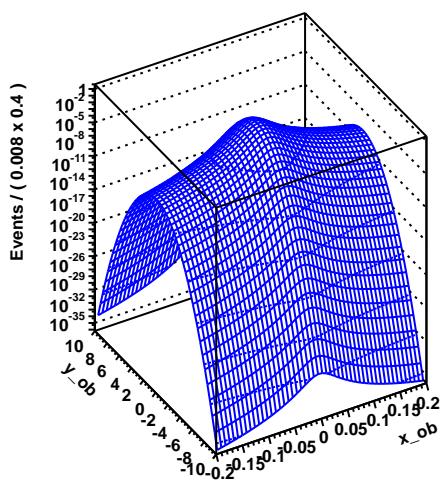
Pro nSigmaDEdx p[0.60-0.80]



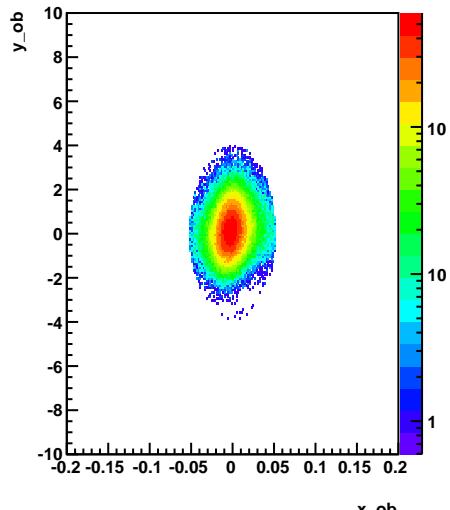
Pro dlnvBeta p[0.60-0.80]



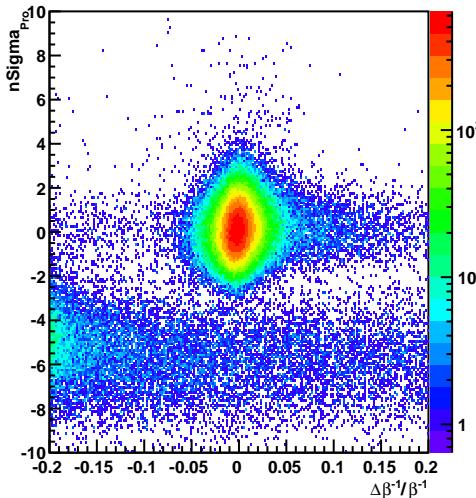
Histogram of hh\_sig\_x\_ob\_y\_ob



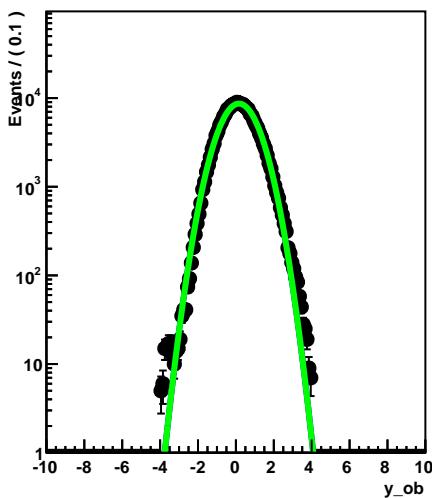
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



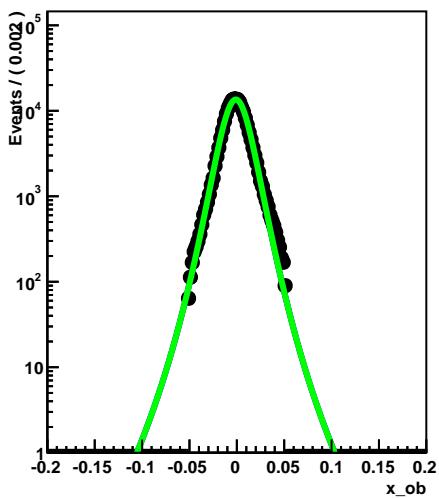
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.0-0.2]



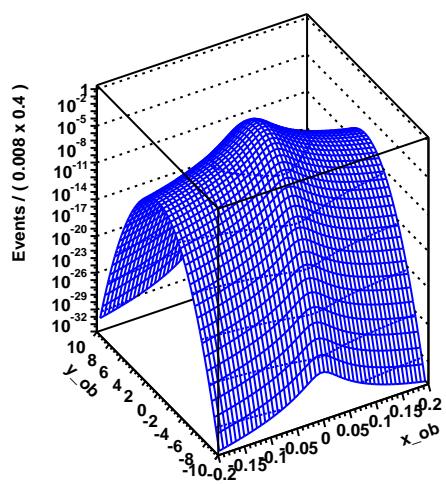
Pro nSigmaDEdx p[0.80-1.00]



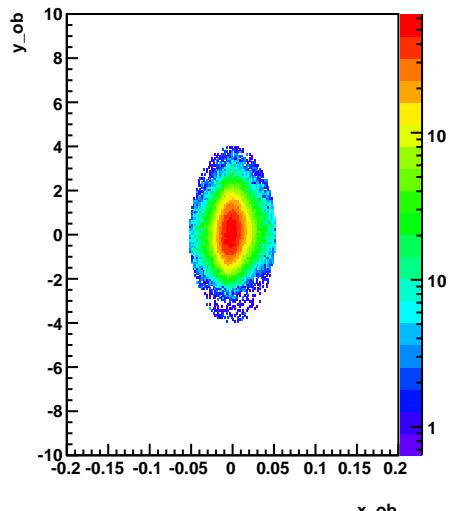
Pro dInvBeta p[0.80-1.00]



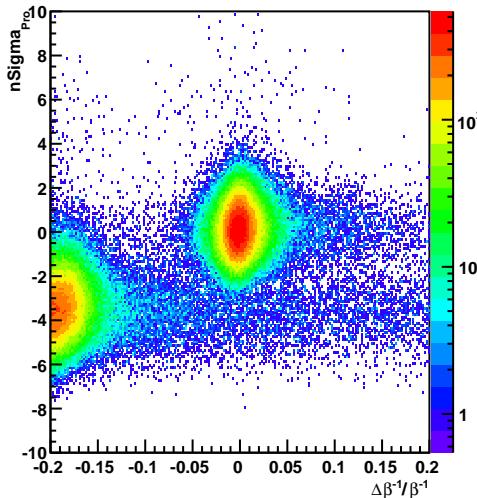
Histogram of hh\_sig\_x\_ob\_y\_ob



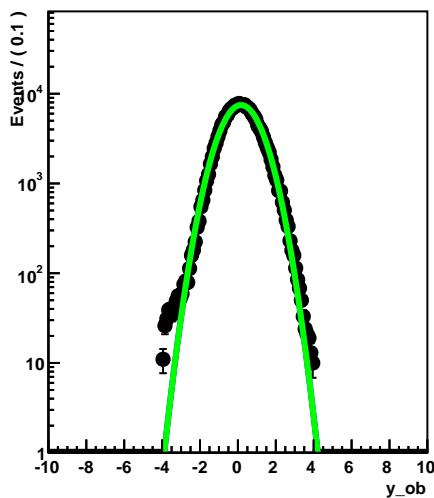
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



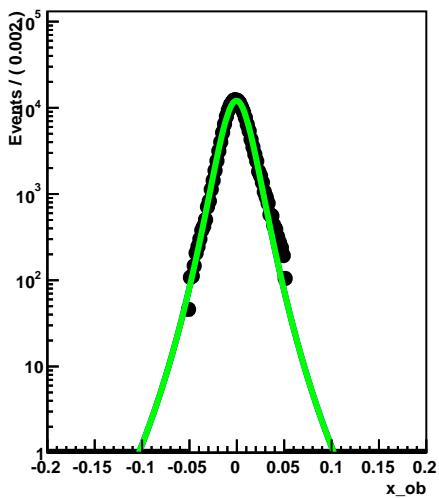
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] | $\eta$ | [0.0-0.2]



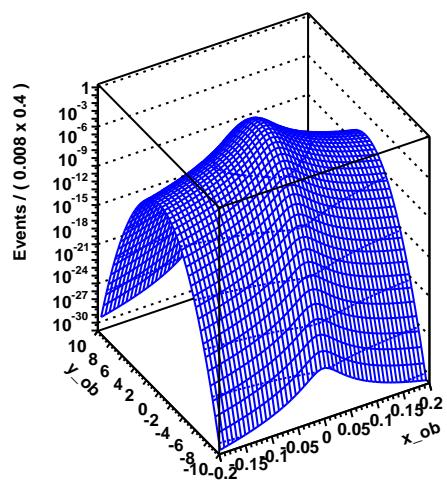
Pro nSigmaDEdx p[1.00-1.20]



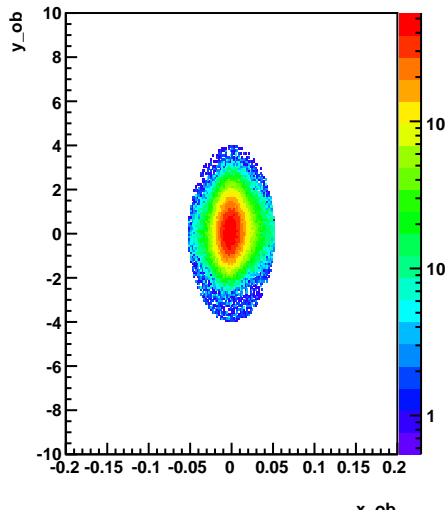
Pro dInvBeta p[1.00-1.20]



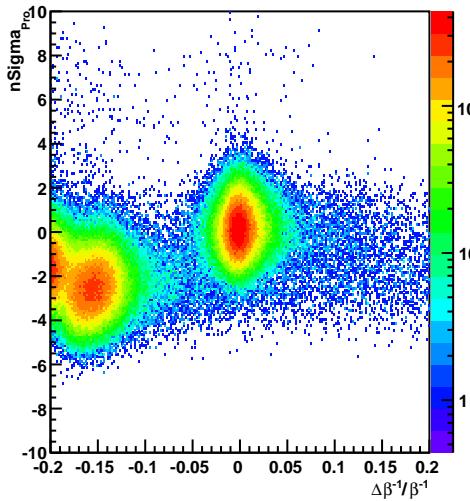
Histogram of hh\_sig\_x\_ob\_y\_ob



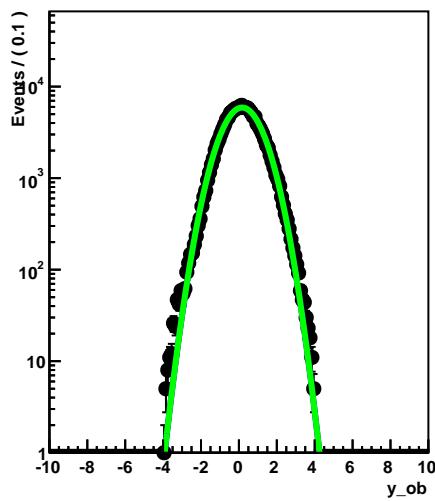
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



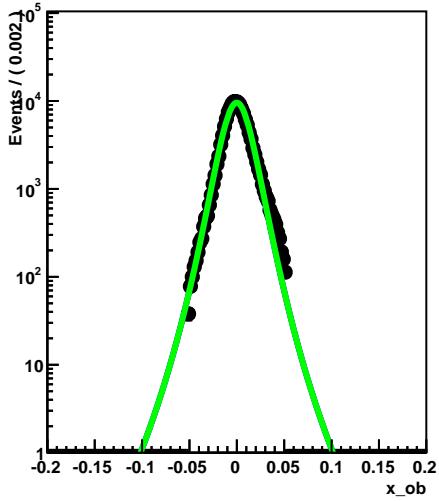
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] | $\eta$ | [0.0-0.2]



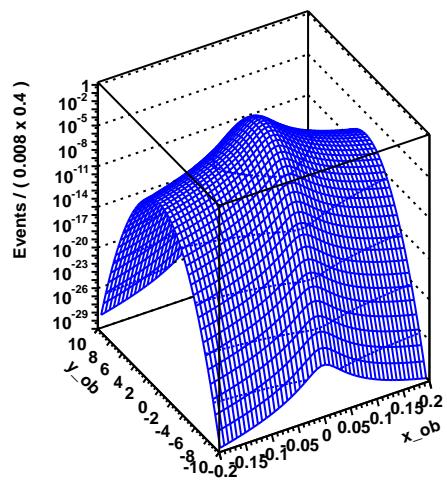
Pro nSigmaDEdx p[1.20-1.40]



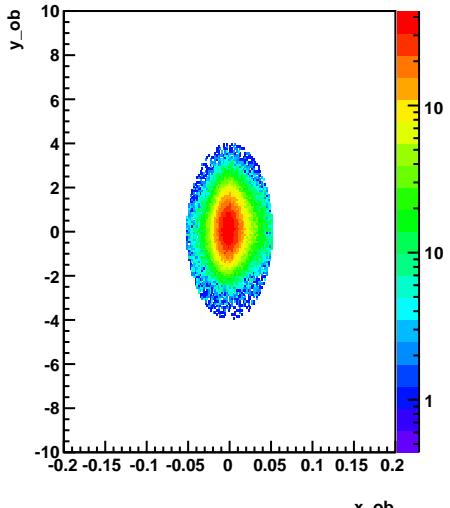
Pro dInvBeta p[1.20-1.40]



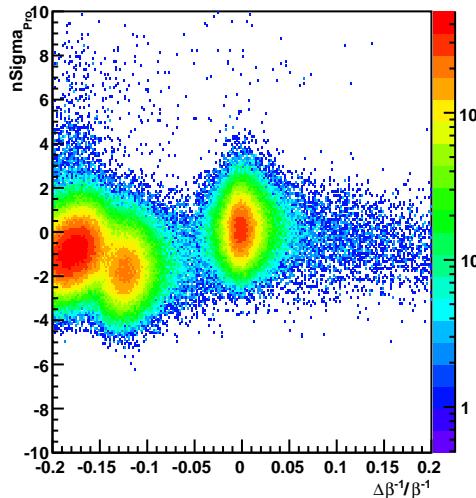
Histogram of hh\_sig\_x\_ob\_y\_ob



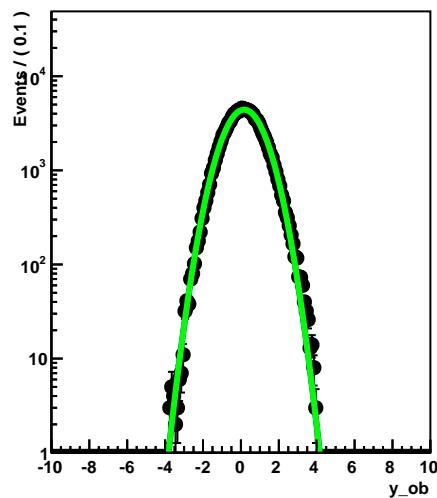
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



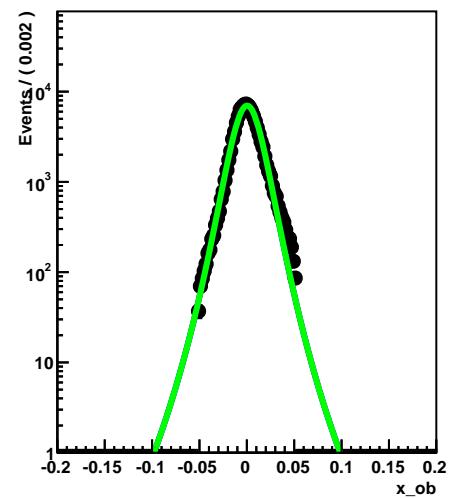
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60]  $|\eta|$  [0.0-0.2]



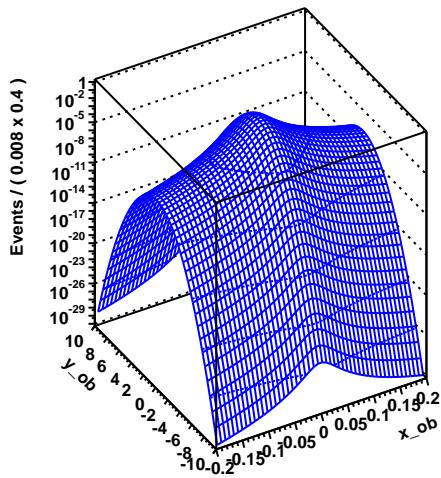
Pro nSigmaDEdx p[1.40-1.60]



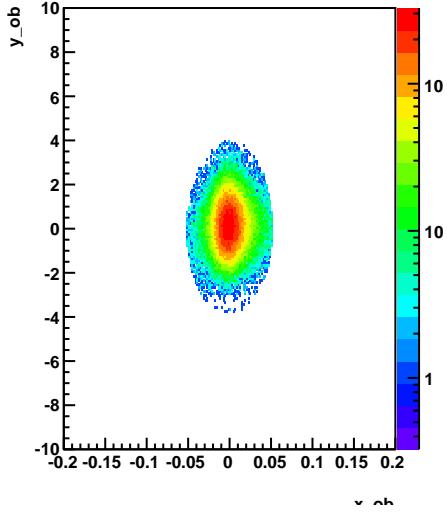
Pro dInvBeta p[1.40-1.60]



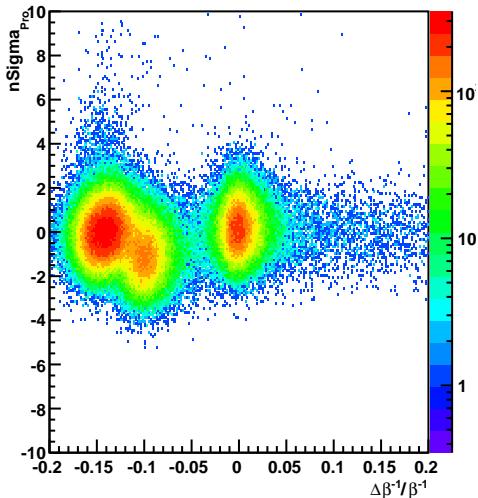
Histogram of hh\_sig\_x\_ob\_y\_ob



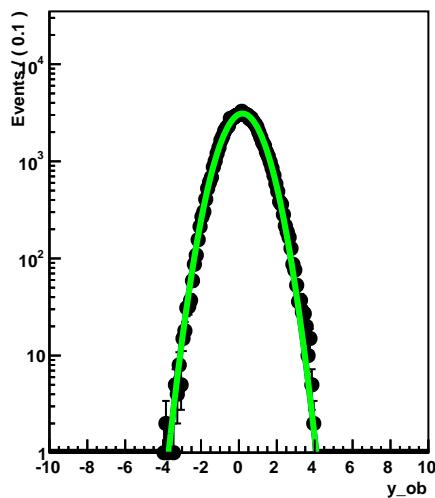
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



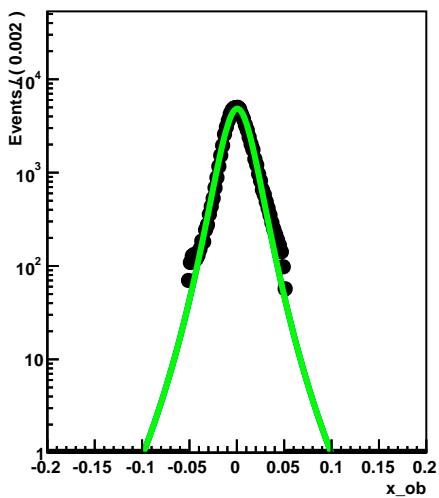
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] | $\eta$ | [0.0-0.2]



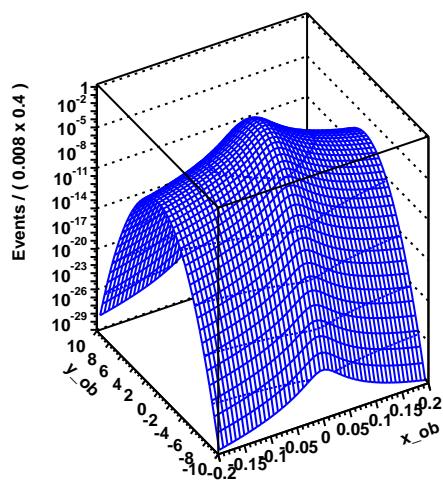
Pro nSigmaDEdx p[1.60-1.80]



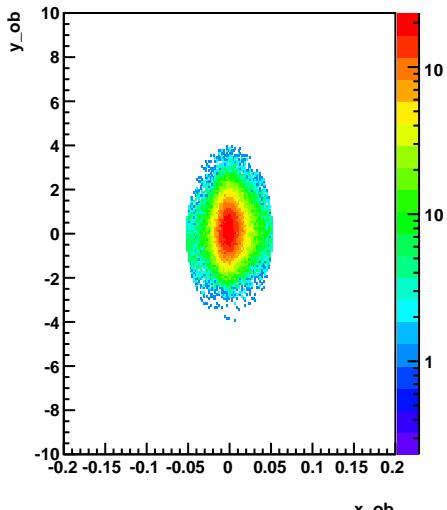
Pro dInvBeta p[1.60-1.80]



Histogram of hh\_sig\_x\_ob\_y\_ob

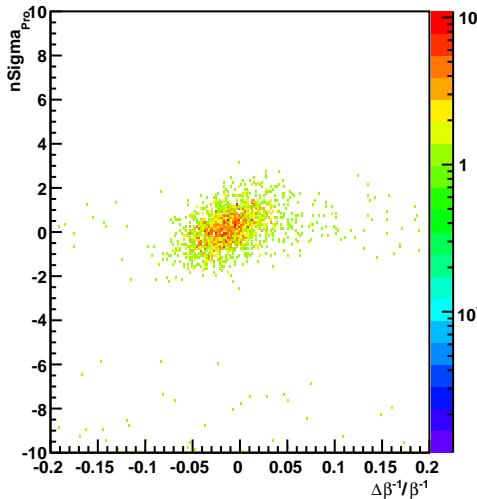


Histogram of hh\_data\_Pro\_x\_ob\_y\_ob

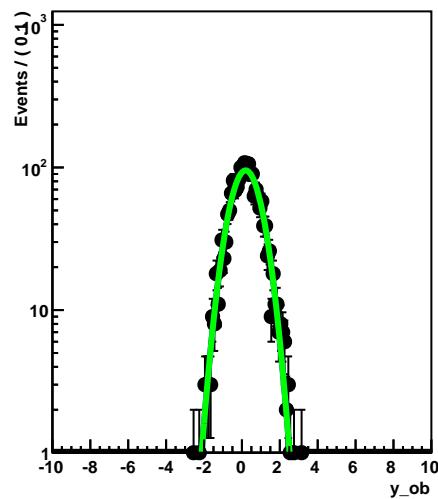




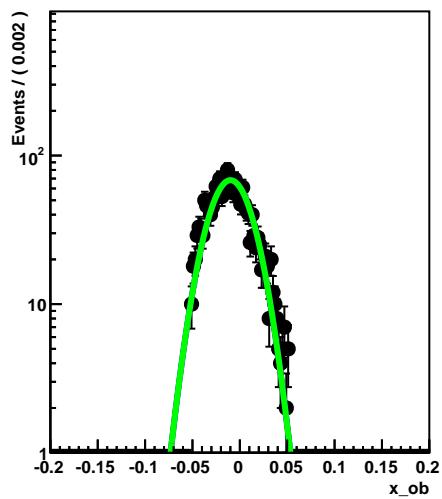
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.2-0.4]



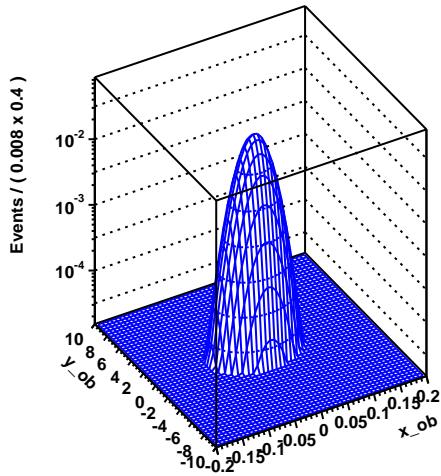
Pro nSigmaDEdx p[0.20-0.30]



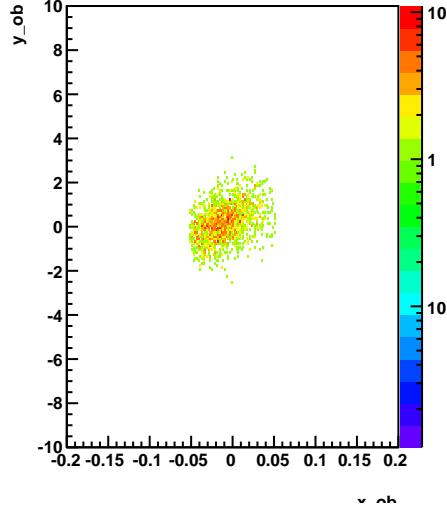
Pro dInvBeta p[0.20-0.30]



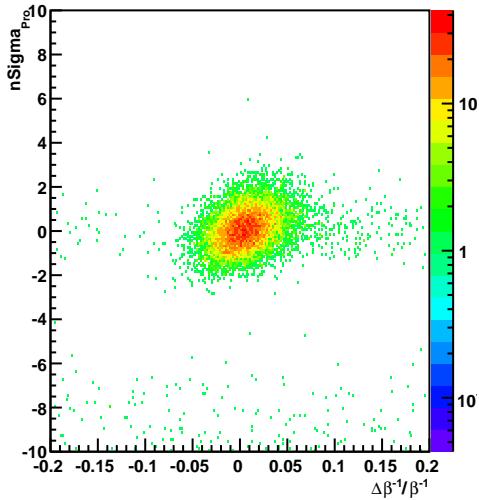
Histogram of hh\_sig\_x\_ob\_y\_ob



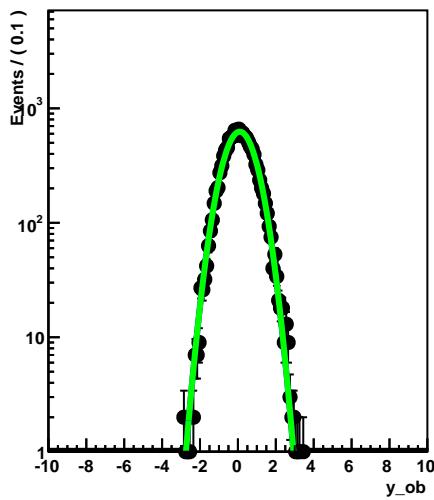
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



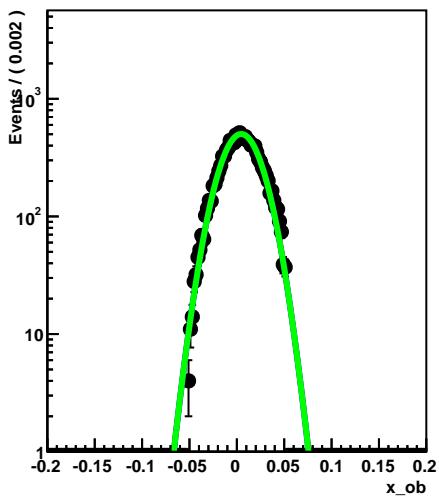
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.2-0.4]



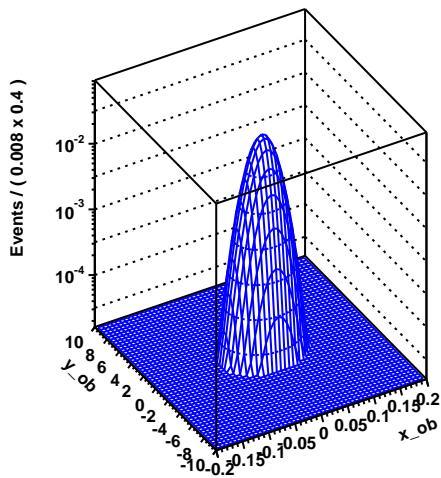
Pro nSigmaDEdx p[0.30-0.40]



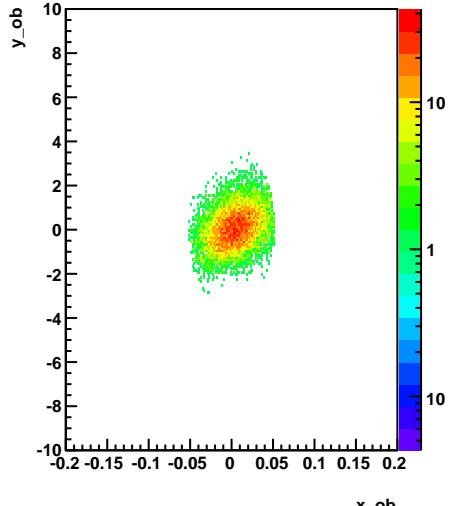
Pro dInvBeta p[0.30-0.40]



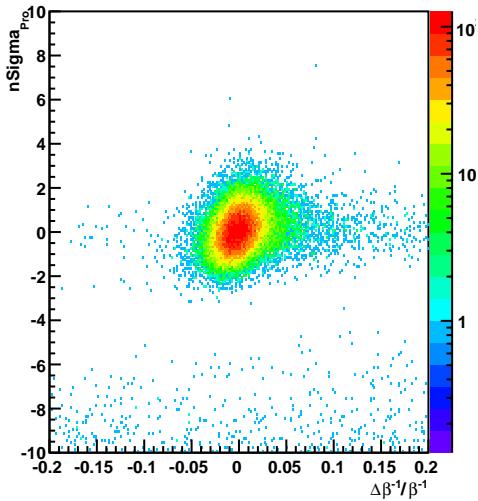
Histogram of hh\_sig\_x\_ob\_y\_ob



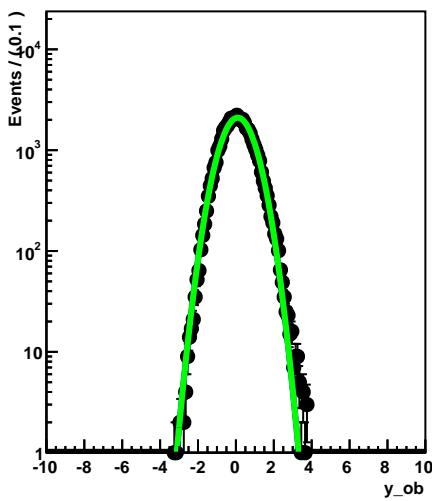
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



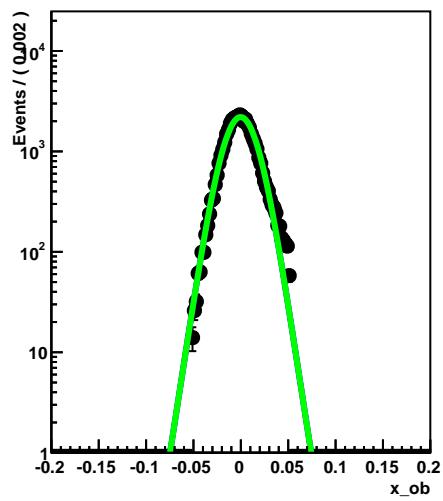
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.2-0.4]



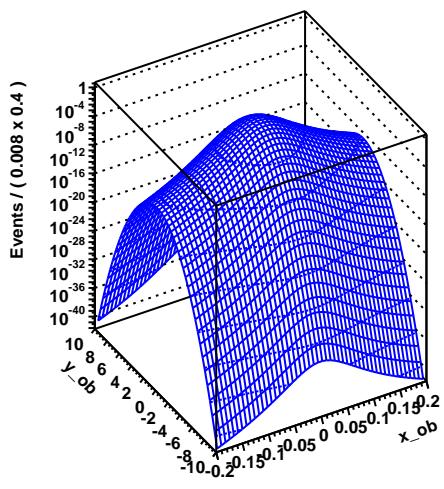
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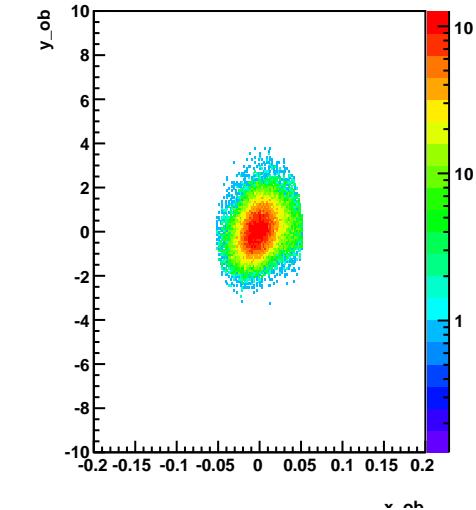
Pro dInvBeta p[0.40-0.50]



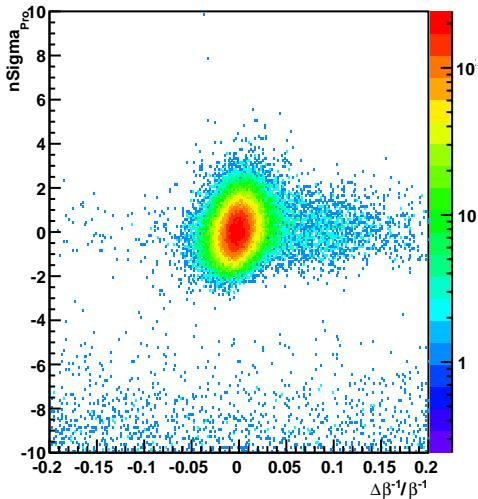
Histogram of hh\_sig\_x\_ob\_y\_ob



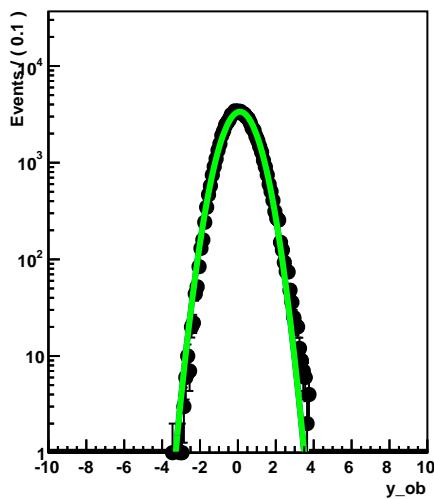
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



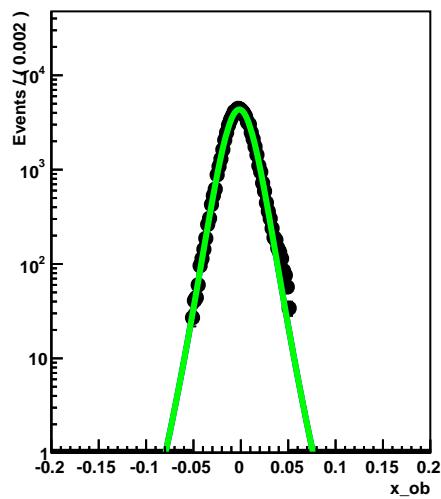
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60]  $|\eta|$  [0.2-0.4]



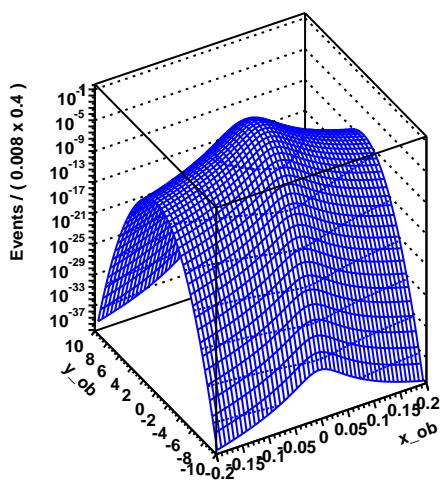
Pro nSigmaDEdx p[0.50-0.60]



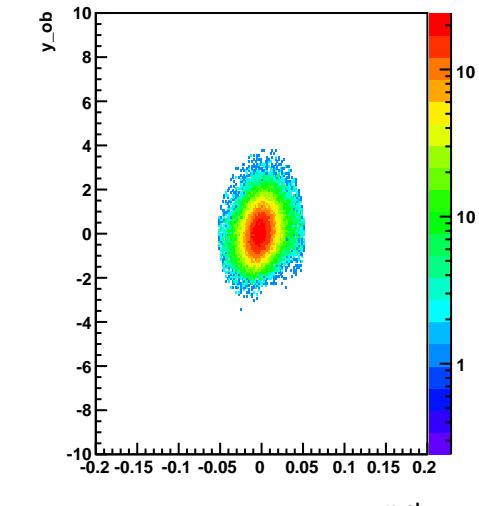
Pro dInvBeta p[0.50-0.60]



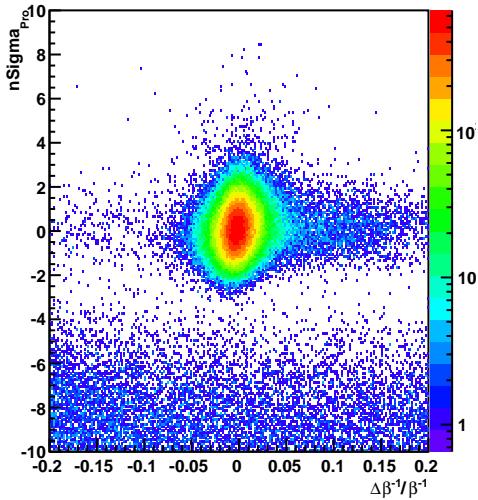
Histogram of hh\_sig\_x\_ob\_y\_ob



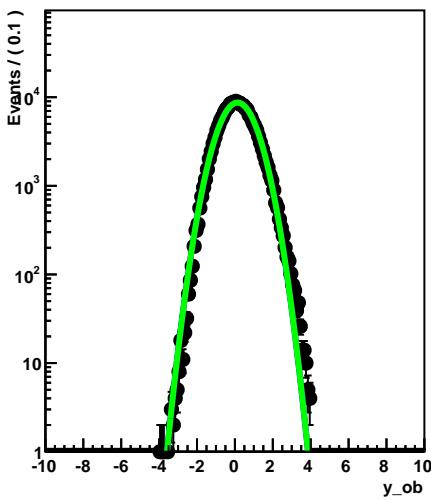
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



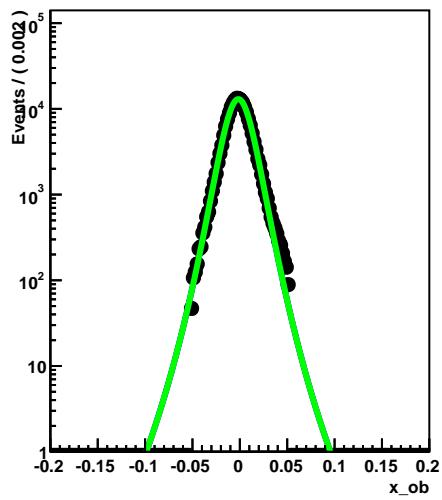
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.2-0.4]



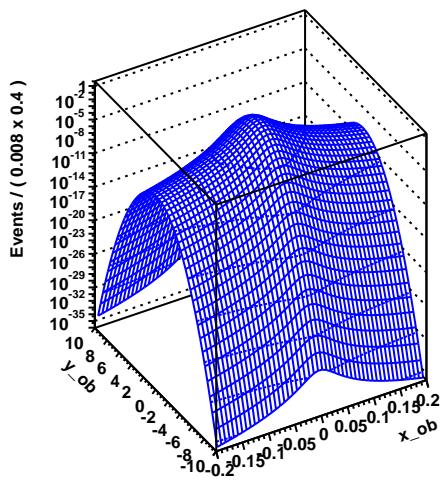
Pro nSigmaDEdx p[0.60-0.80]



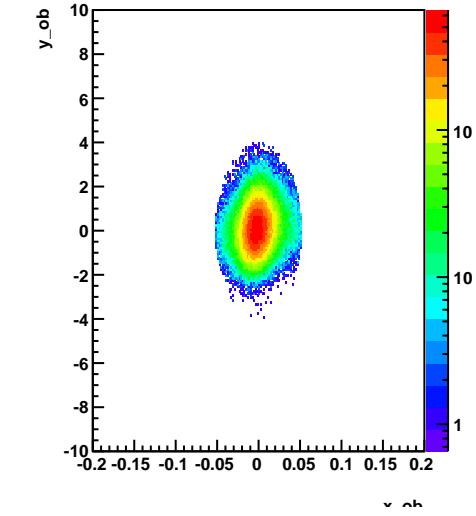
Pro dInvBeta p[0.60-0.80]



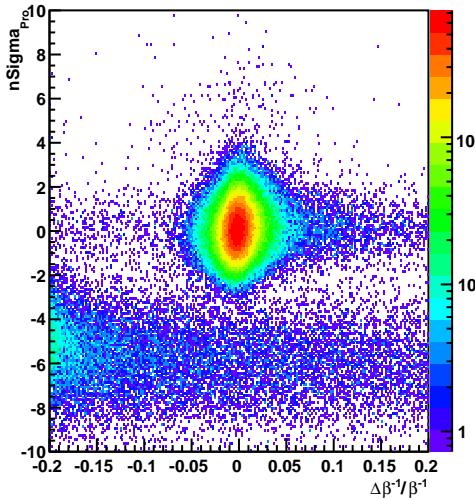
Histogram of hh\_sig\_x\_ob\_y\_ob



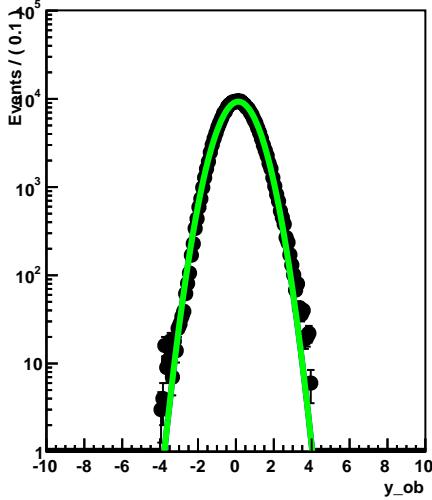
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



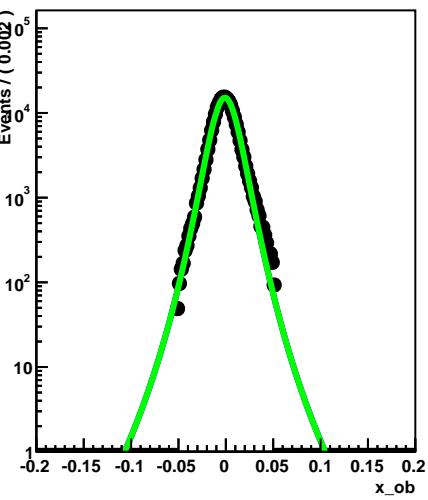
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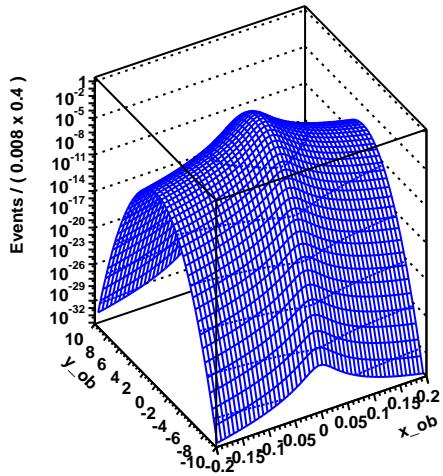
Pro nSigmaDEdx p[0.80-1.00]



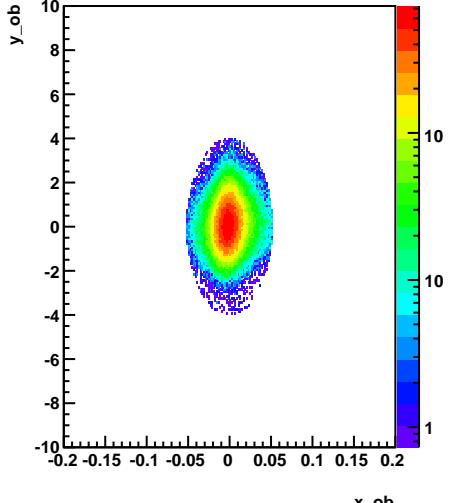
Pro dInvBeta p[0.80-1.00]



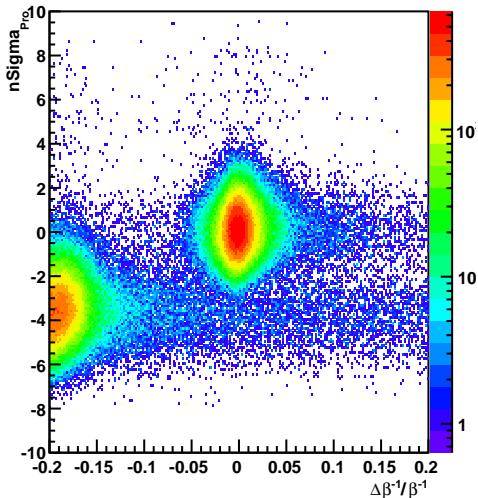
Histogram of hh\_sig\_x\_ob\_y\_ob



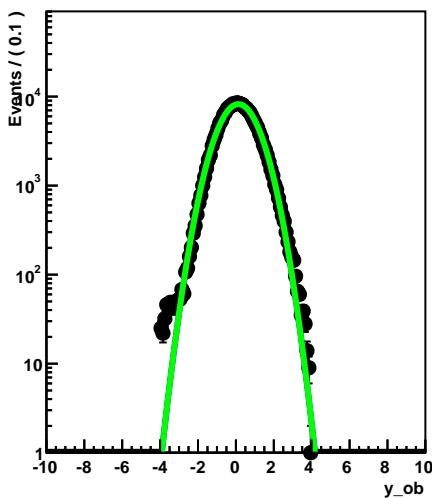
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



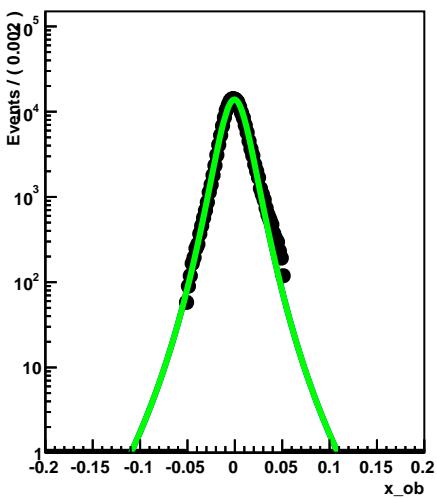
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] | $\eta$ | [0.2-0.4]



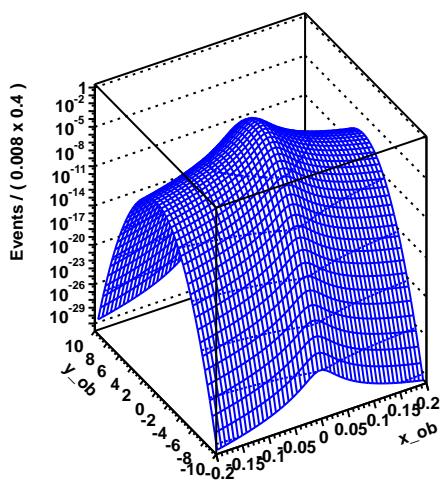
Pro nSigmaDEdx p[1.00-1.20]



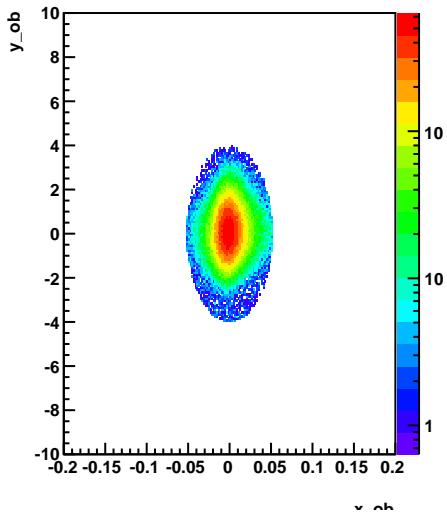
Pro dInvBeta p[1.00-1.20]



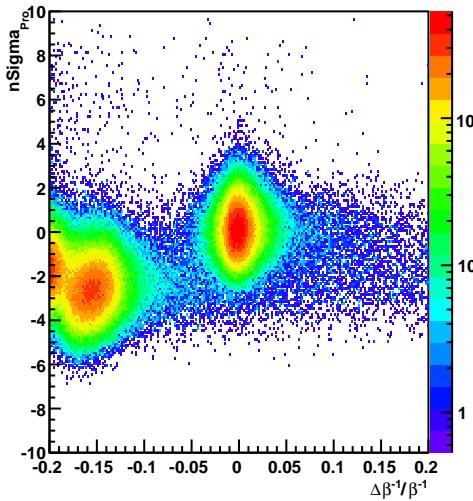
Histogram of hh\_sig\_x\_ob\_y\_ob



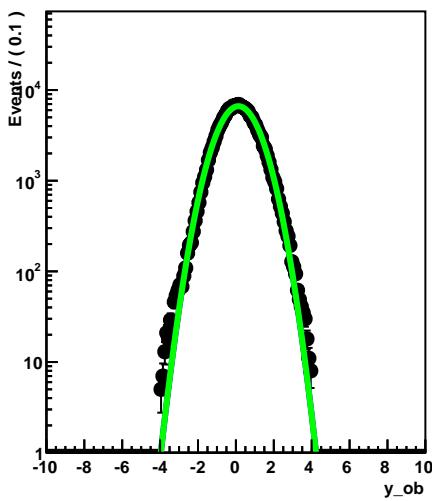
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



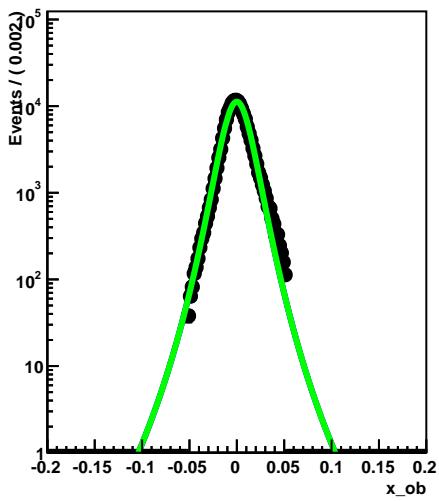
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] | $\eta$ | [0.2-0.4]



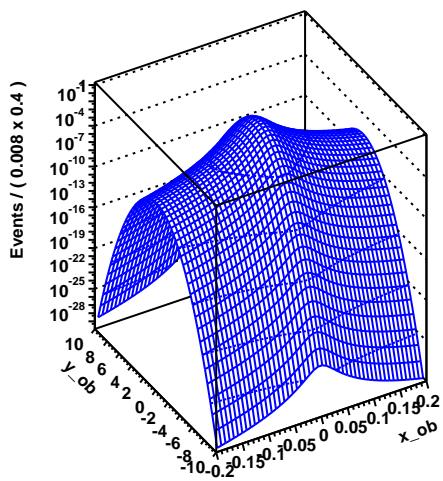
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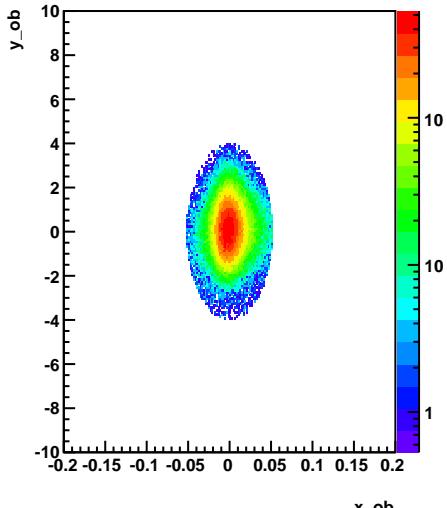
Pro dInvBeta p[1.20-1.40]



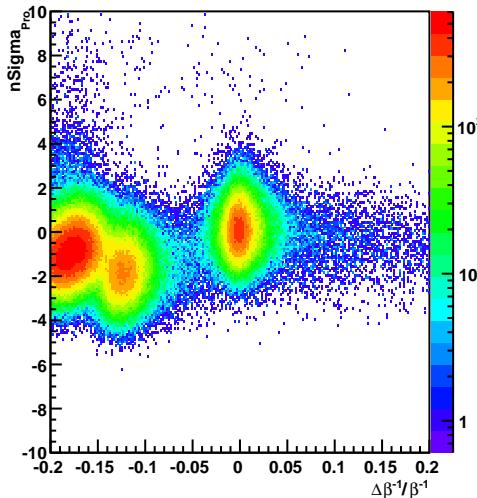
Histogram of hh\_sig\_x\_ob\_y\_ob



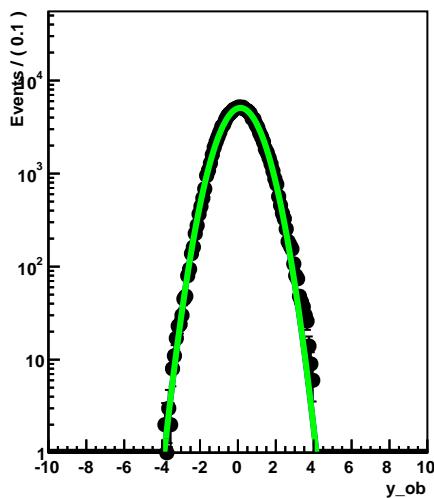
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



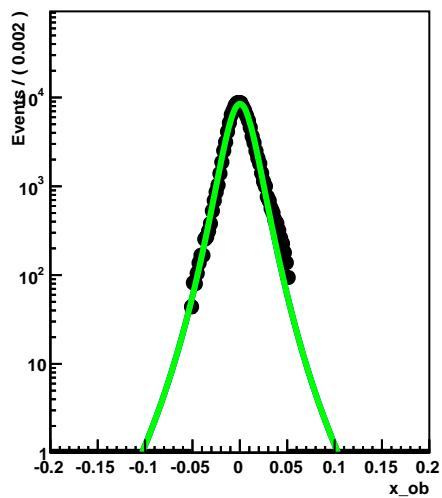
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] | $\eta$ | [0.2-0.4]



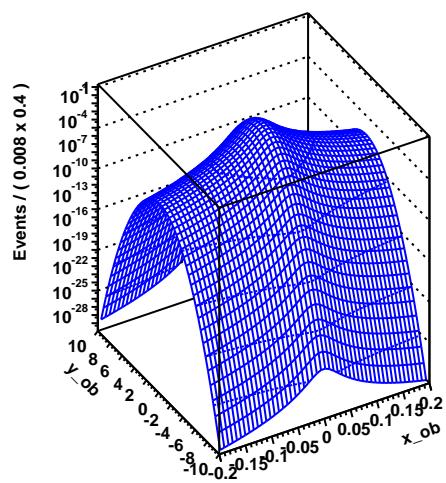
Pro nSigmaDEdx p[1.40-1.60]



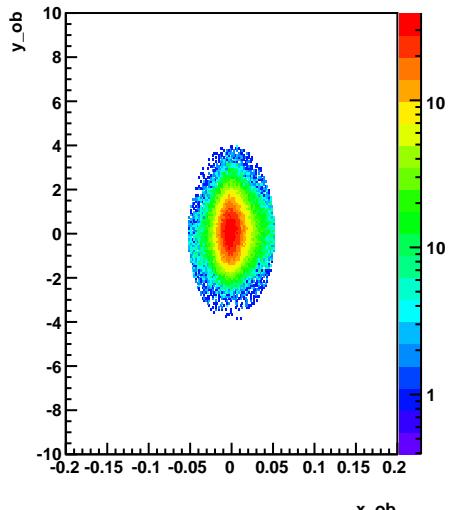
Pro dInvBeta p[1.40-1.60]



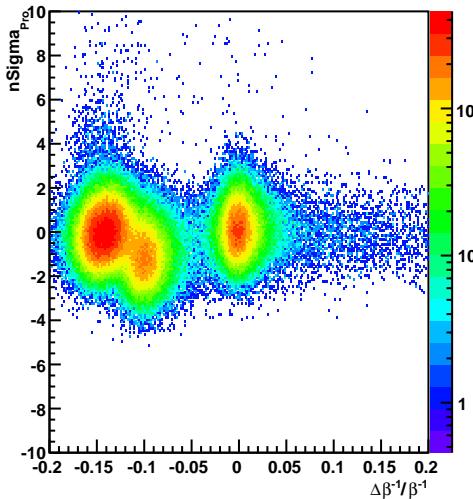
Histogram of hh\_sig\_x\_ob\_y\_ob



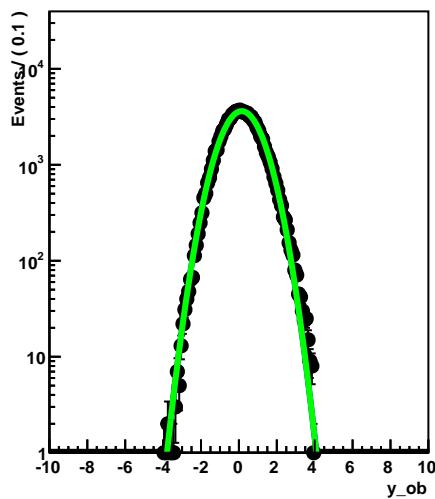
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



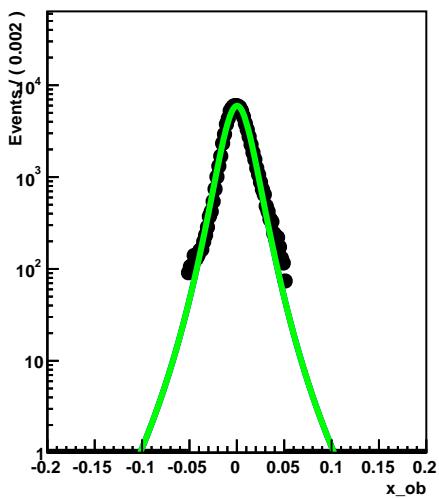
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] | $\eta$ | [0.2-0.4]



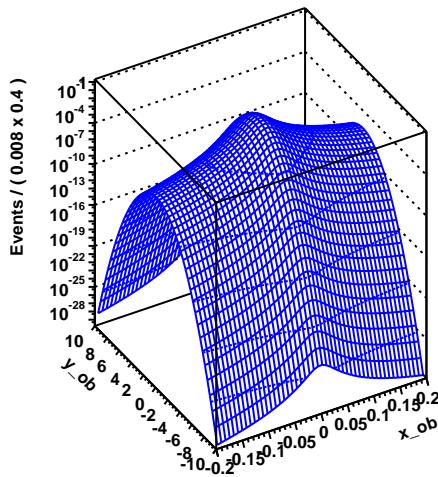
Pro nSigmaDEdx p[1.60-1.80]



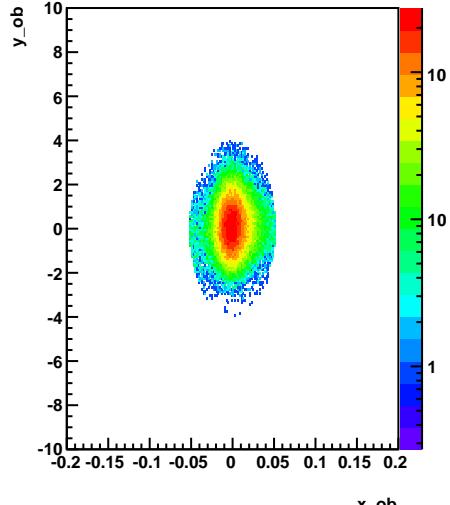
Pro dInvBeta p[1.60-1.80]



Histogram of hh\_sig\_x\_ob\_y\_ob

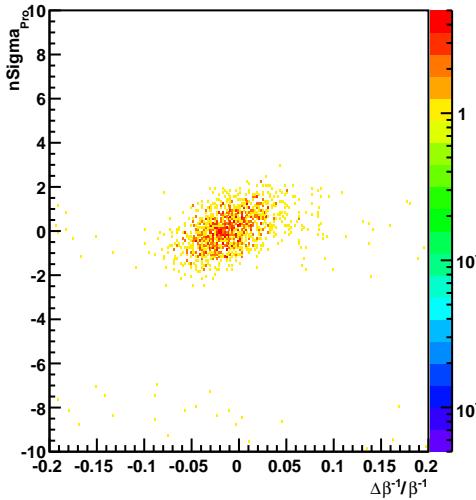


Histogram of hh\_data\_Pro\_x\_ob\_y\_ob

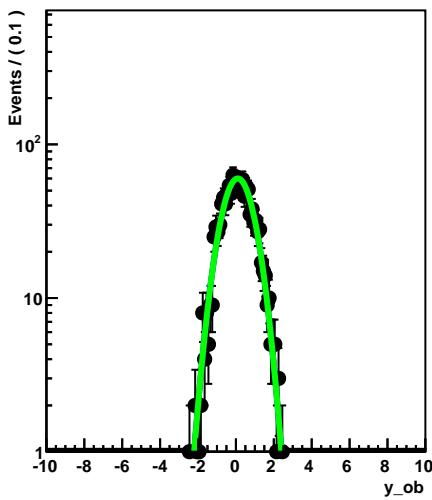




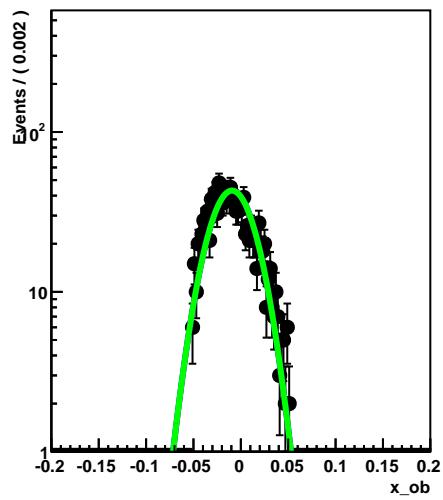
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.20-0.30] | $\eta$ | [0.4-0.6]



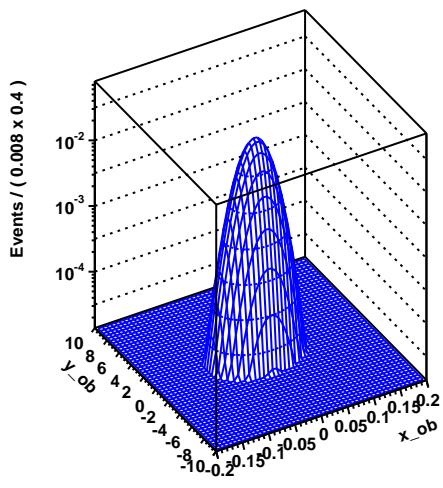
Pro nSigmaDEdx p[0.20-0.30]



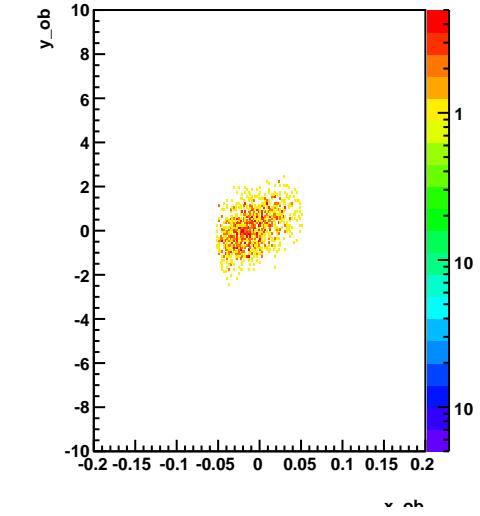
Pro dInvBeta p[0.20-0.30]



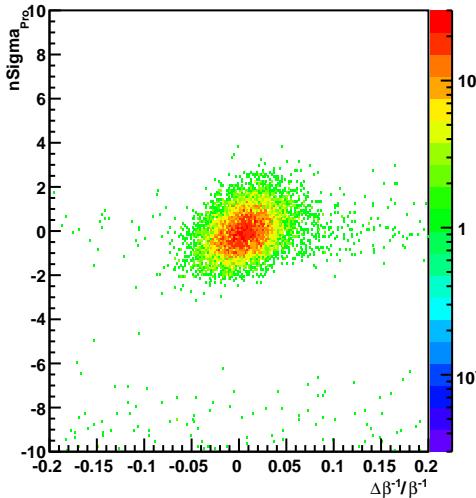
Histogram of hh\_sig\_x\_ob\_y\_ob



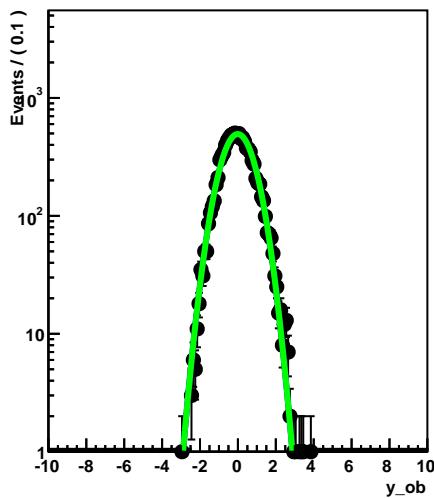
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



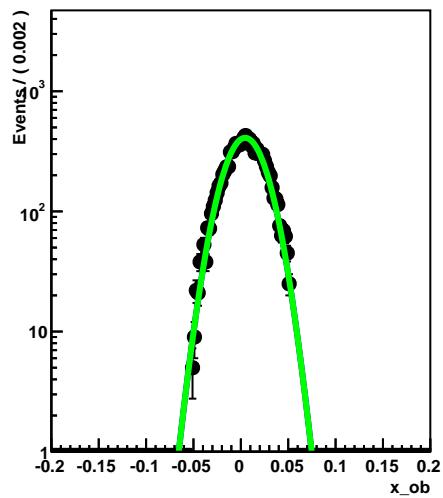
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.4-0.6]



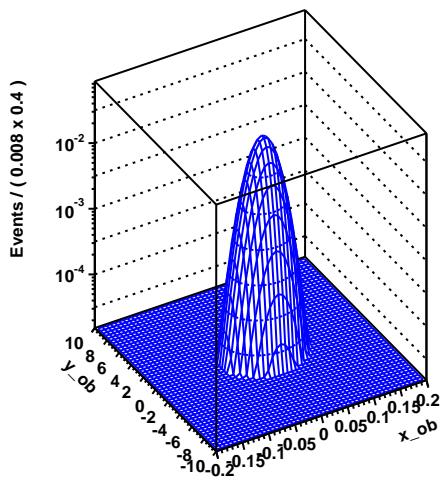
Pro nSigmaDEdx p[0.30-0.40]



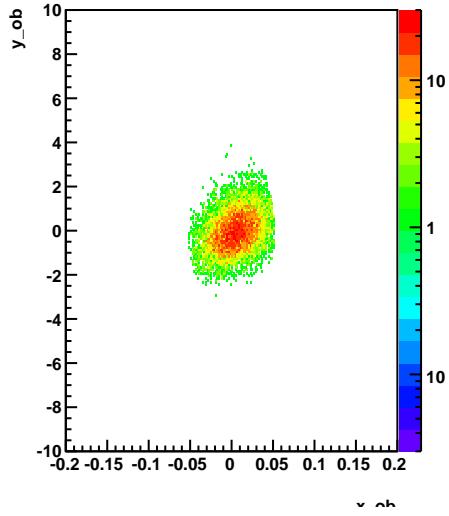
Pro dInvBeta p[0.30-0.40]



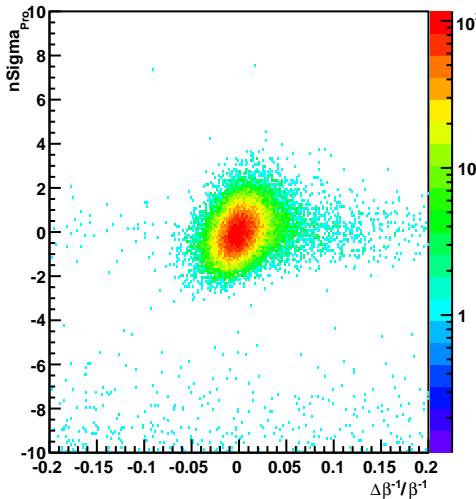
Histogram of hh\_sig\_x\_ob\_y\_ob



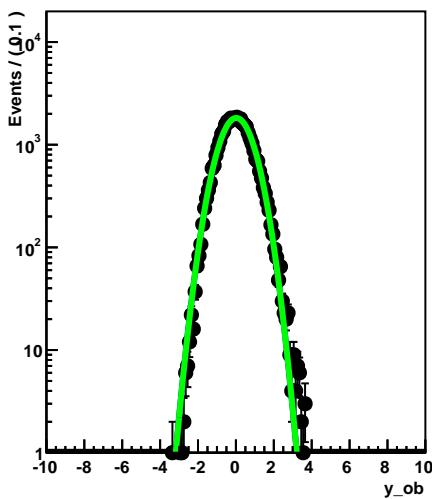
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



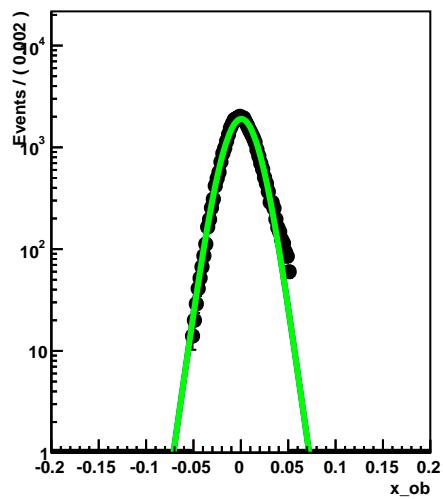
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.4-0.6]



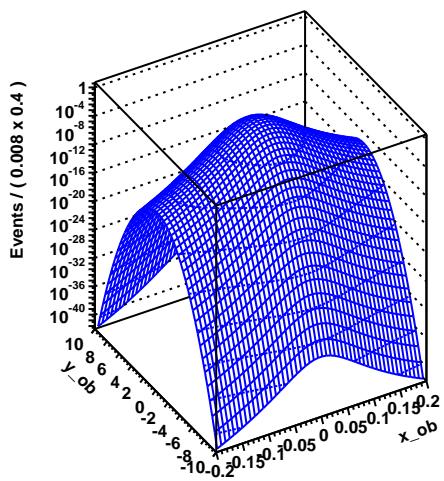
Pro nSigmaDEdx p[0.40-0.50]



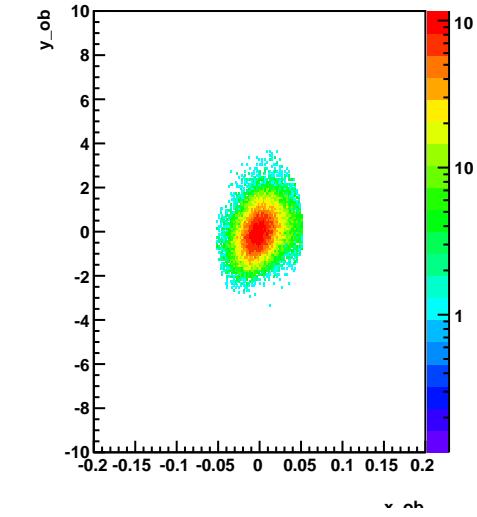
Pro dInvBeta p[0.40-0.50]



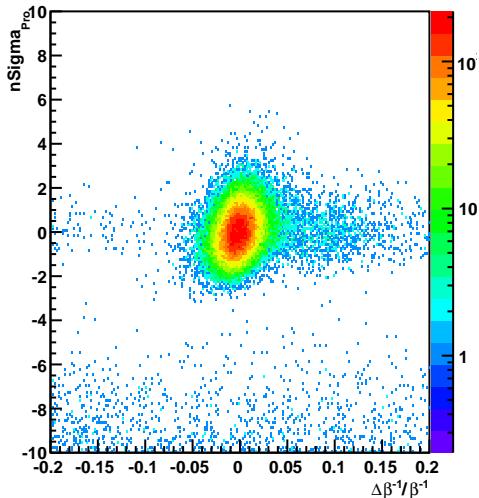
Histogram of hh\_sig\_x\_ob\_y\_ob



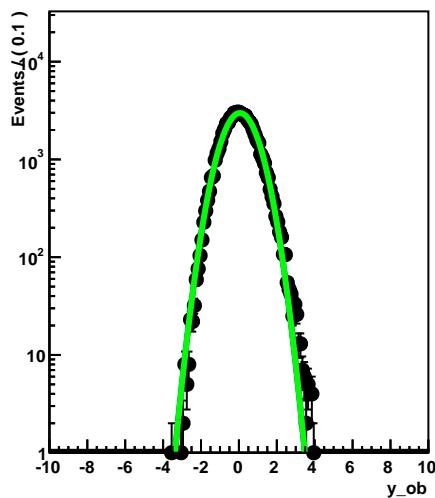
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



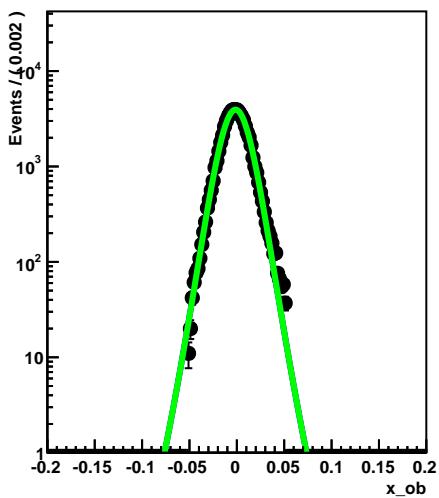
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.4-0.6]



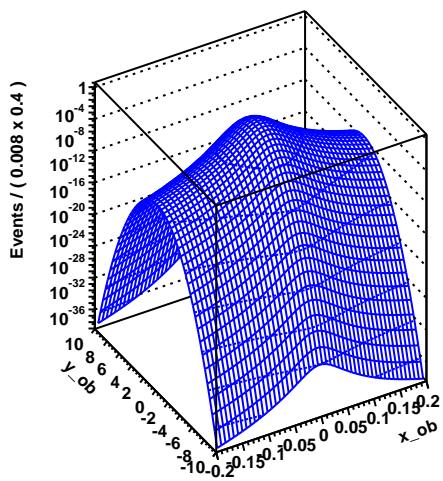
Pro nSigmaDEdx p[0.50-0.60]



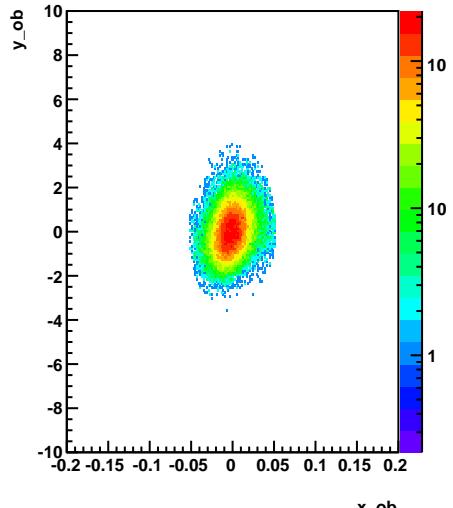
Pro dInvBeta p[0.50-0.60]



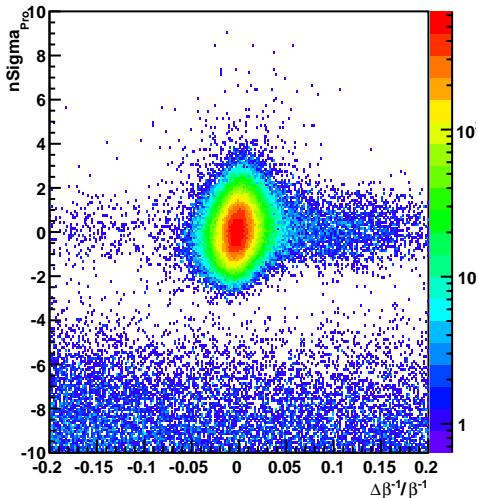
Histogram of hh\_sig\_x\_ob\_y\_ob



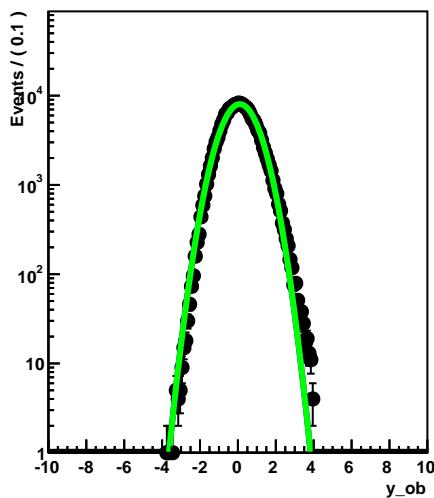
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



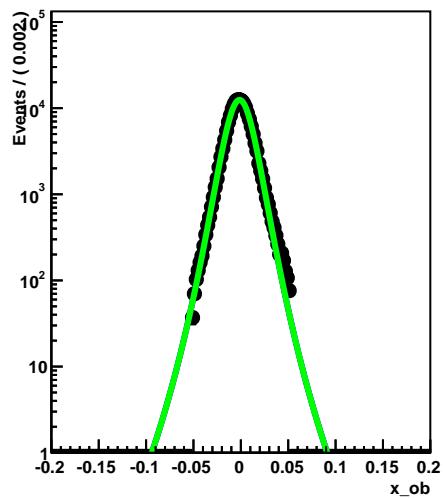
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80]  $|\eta|$  [0.4-0.6]



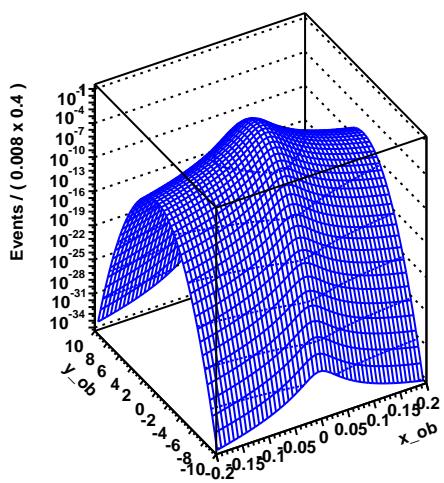
Pro nSigmaDEdx p[0.60-0.80]



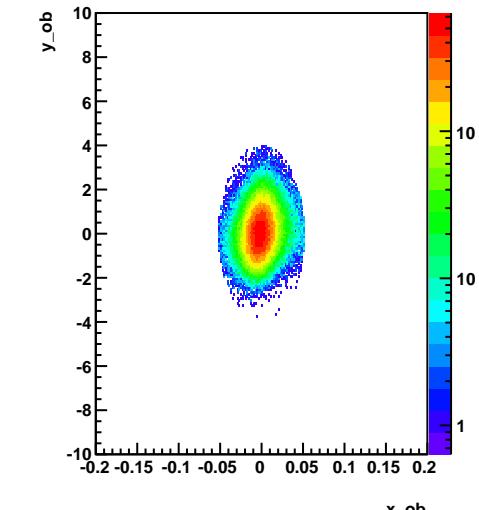
Pro dInvBeta p[0.60-0.80]



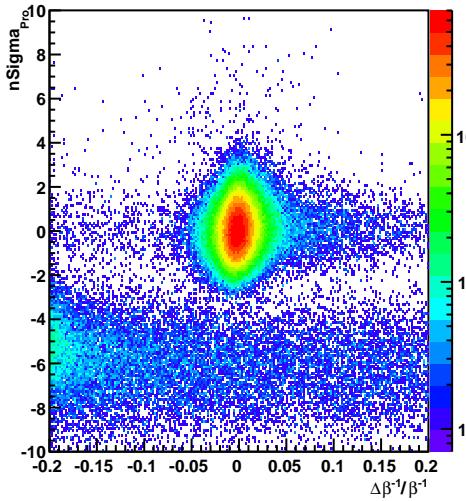
Histogram of hh\_sig\_x\_ob\_y\_ob



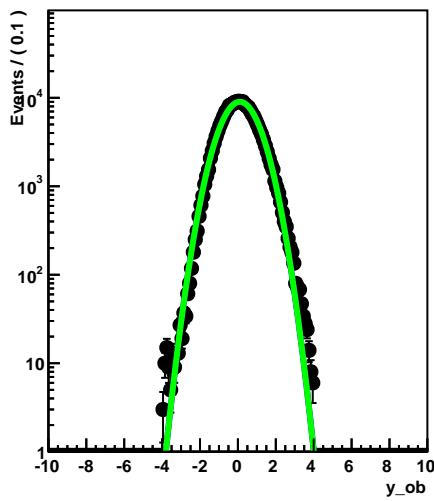
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



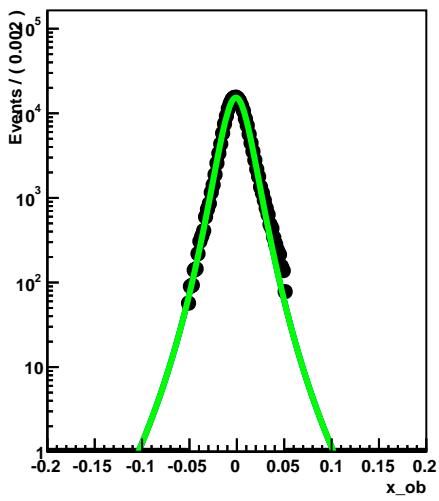
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.4-0.6]



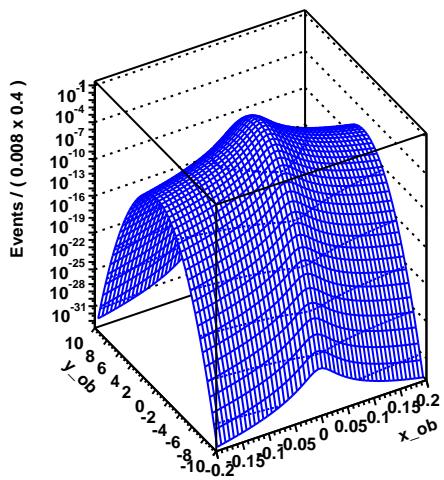
Pro nSigmaDEdx p[0.80-1.00]



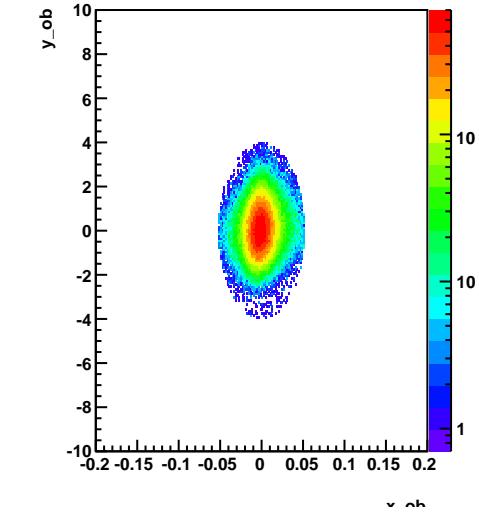
Pro dInvBeta p[0.80-1.00]



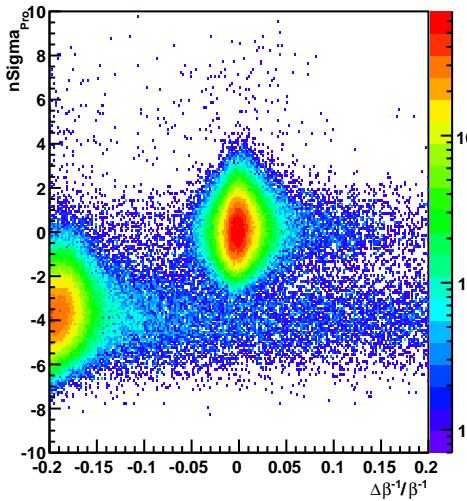
Histogram of hh\_sig\_x\_ob\_y\_ob



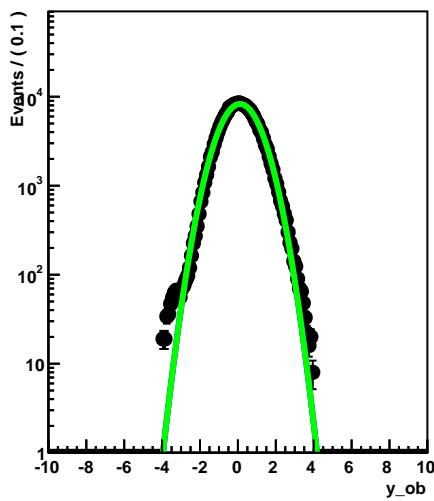
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



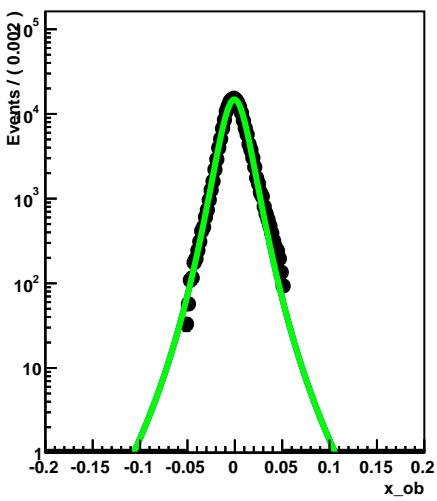
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] | $\eta$ | [0.4-0.6]



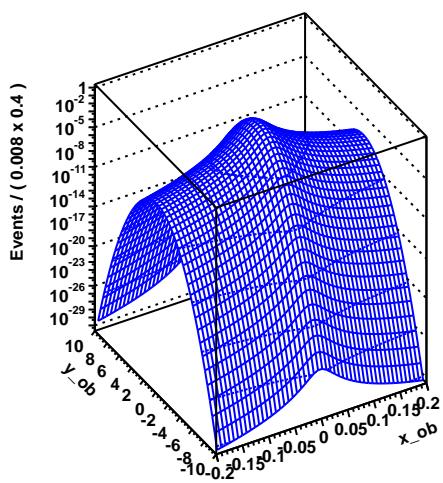
Pro nSigmaDEdx p[1.00-1.20]



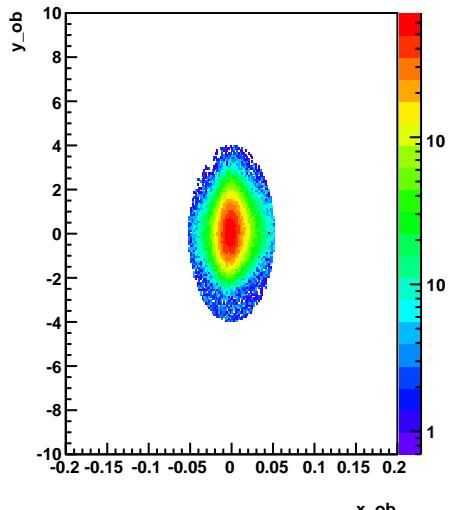
Pro dInvBeta p[1.00-1.20]



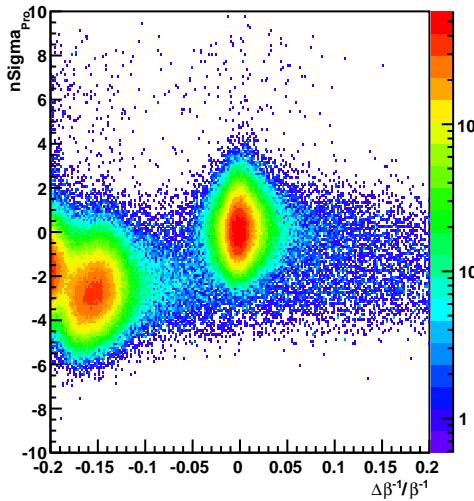
Histogram of hh\_sig\_x\_ob\_y\_ob



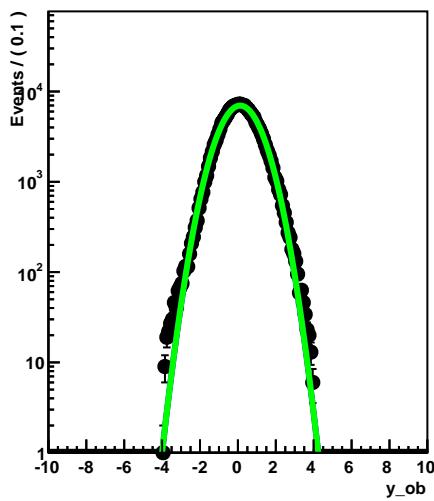
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



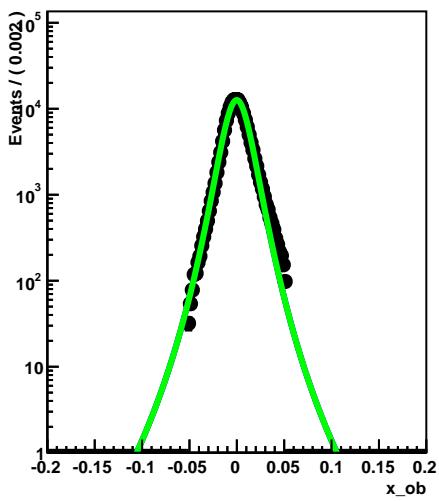
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] | $\eta$ | [0.4-0.6]



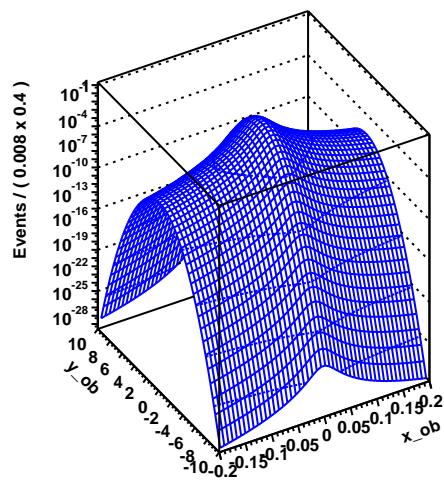
Pro nSigmaDEdx p[1.20-1.40]



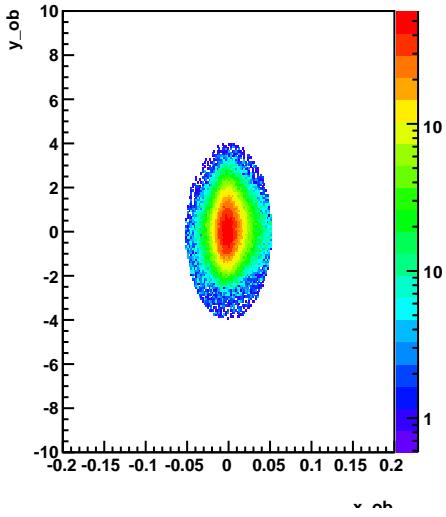
Pro dInvBeta p[1.20-1.40]



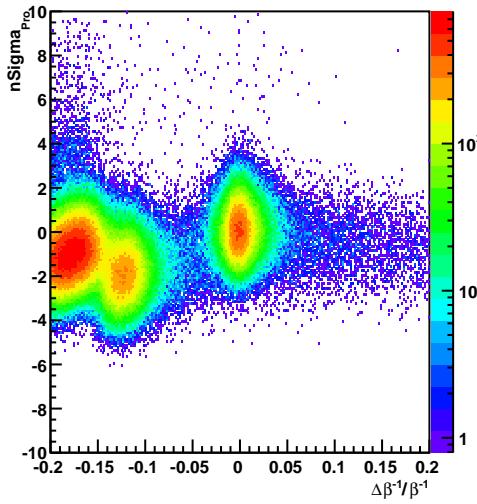
Histogram of hh\_sig\_x\_ob\_y\_ob



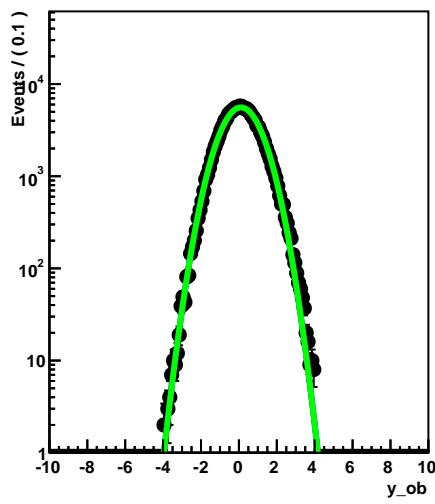
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



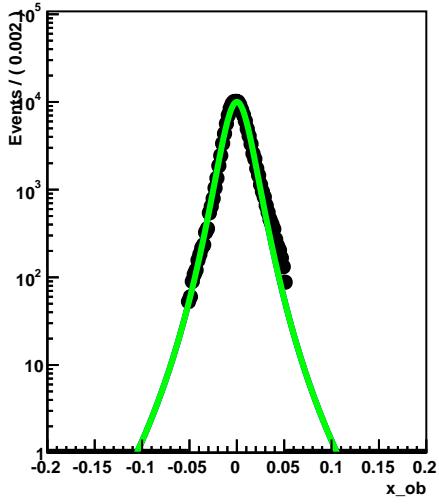
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] | $\eta$ | [0.4-0.6]



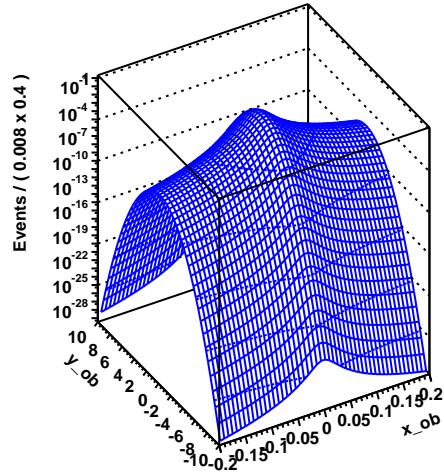
Pro nSigmaDEdx p[1.40-1.60]



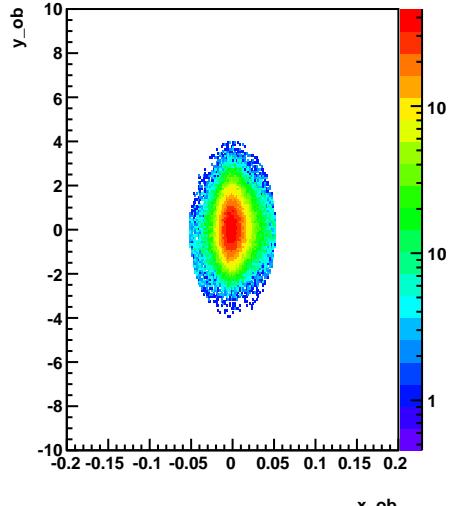
Pro dInvBeta p[1.40-1.60]



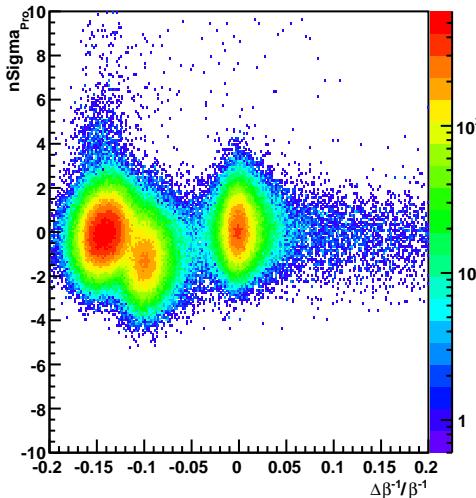
Histogram of hh\_sig\_x\_ob\_y\_ob



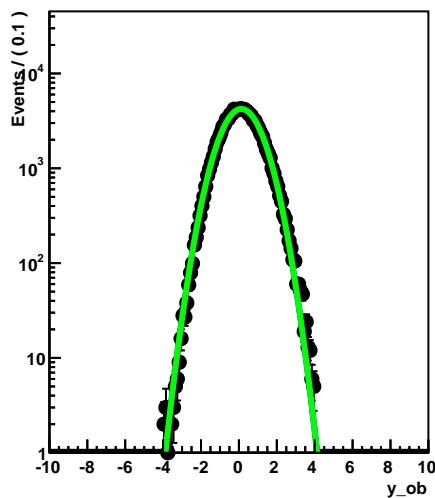
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



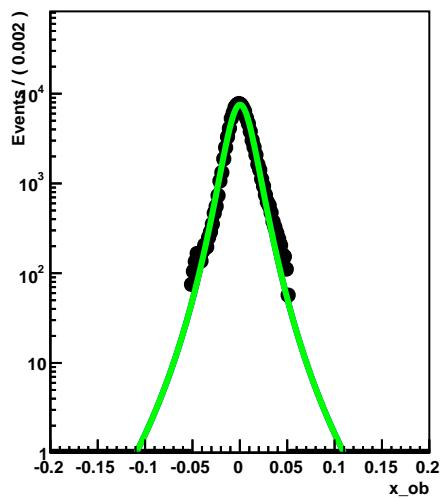
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] | $\eta$ | [0.4-0.6]



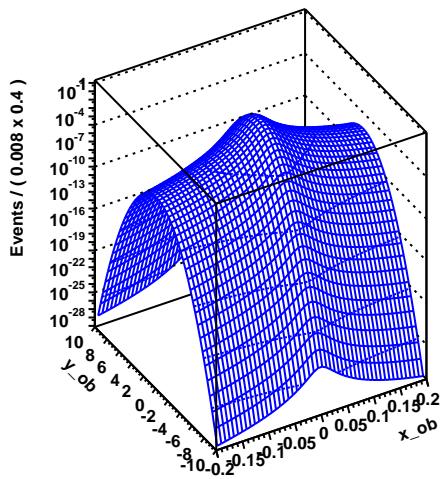
Pro nSigmaDEdx p[1.60-1.80]



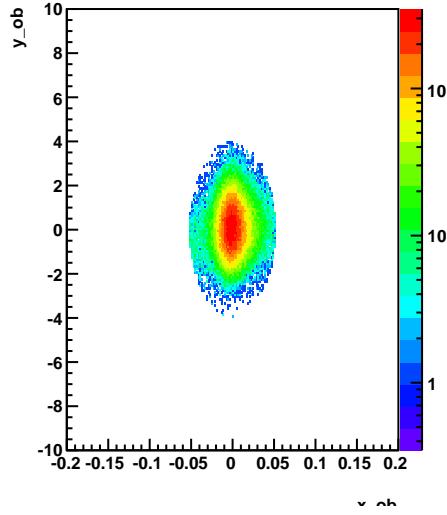
Pro dInvBeta p[1.60-1.80]



Histogram of hh\_sig\_x\_ob\_y\_ob

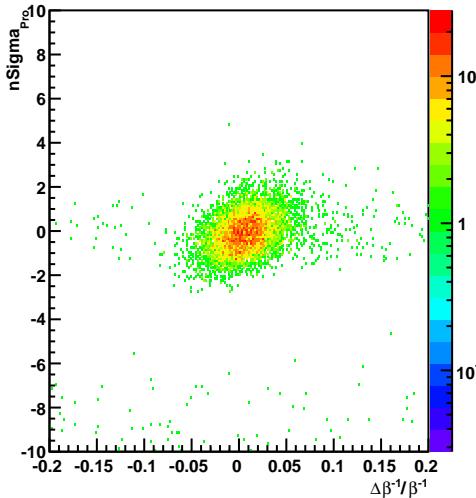


Histogram of hh\_data\_Pro\_x\_ob\_y\_ob

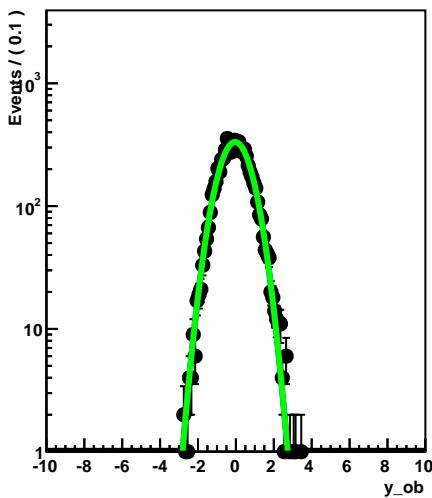




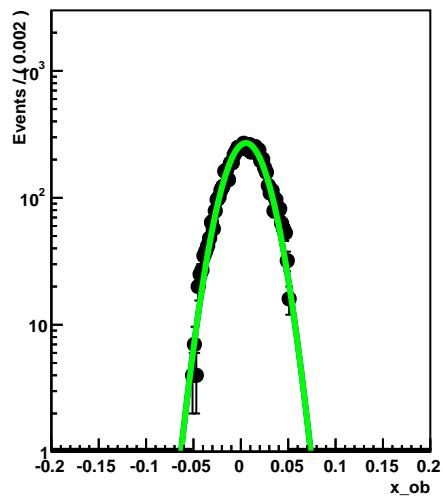
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.6-0.8]



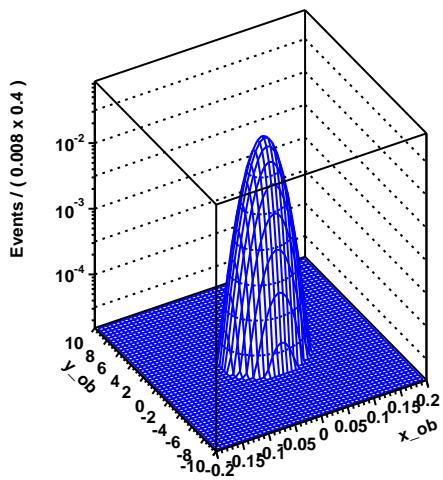
Pro nSigmaDEdx p[0.30-0.40]



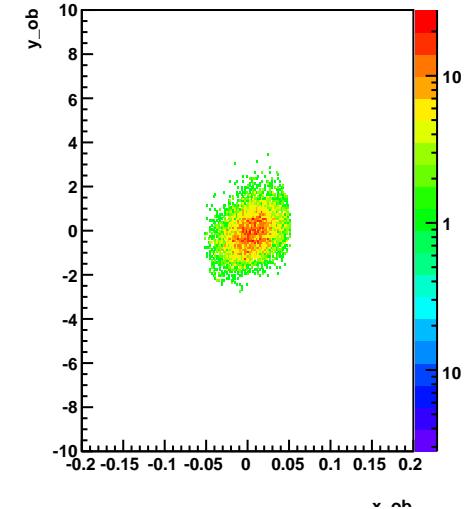
Pro dInvBeta p[0.30-0.40]



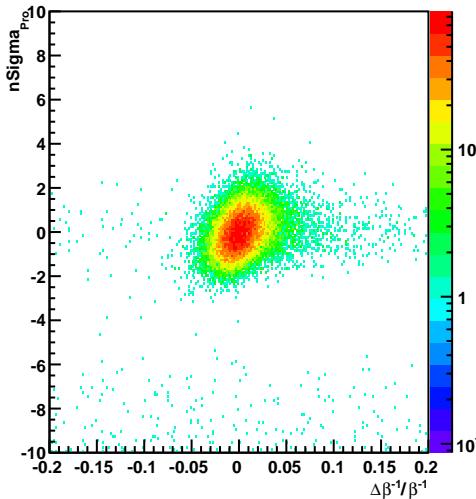
Histogram of hh\_sig\_x\_ob\_y\_ob



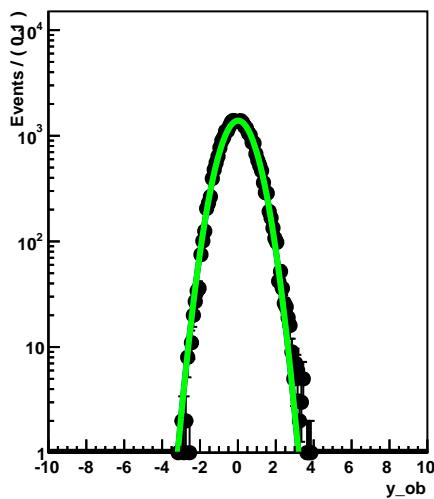
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



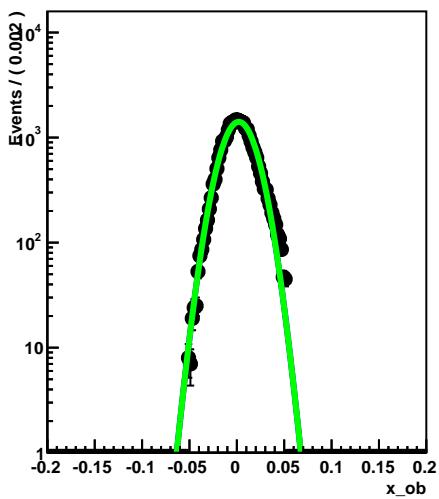
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.6-0.8]



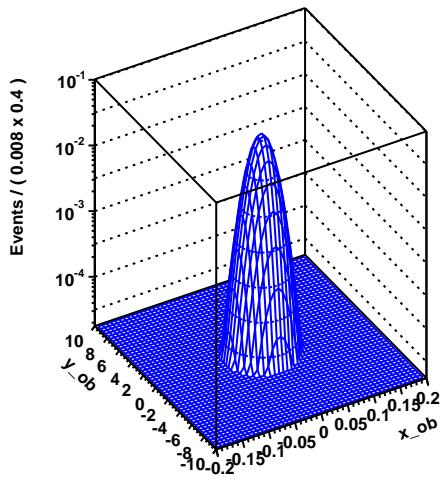
Pro nSigmaDEdx p[0.40-0.50]



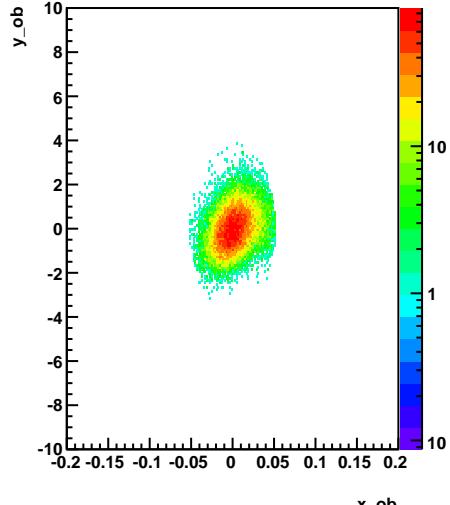
Pro dInvBeta p[0.40-0.50]



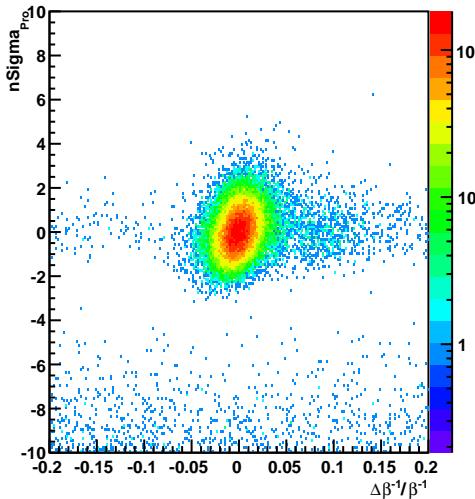
Histogram of hh\_sig\_x\_ob\_y\_ob



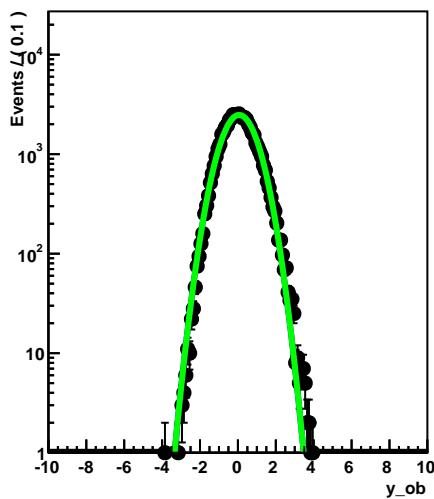
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



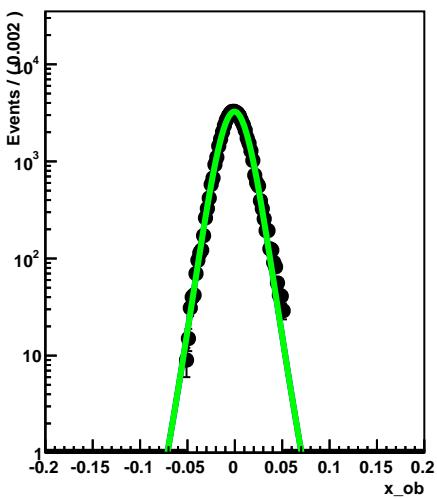
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.6-0.8]



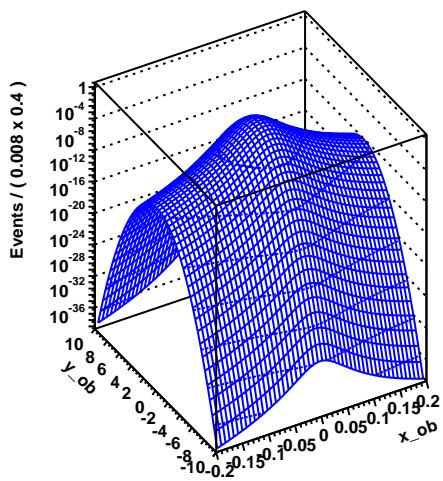
Pro nSigmaDEdx p[0.50-0.60]



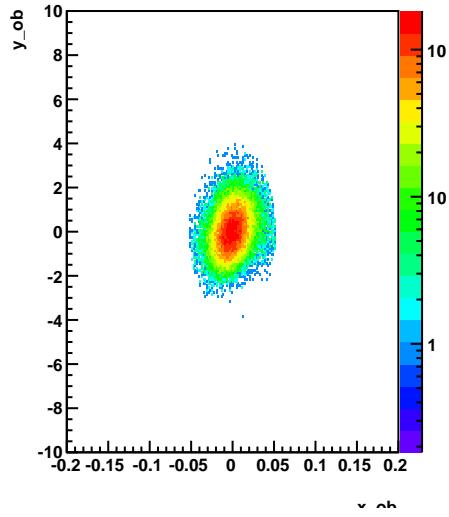
Pro dInvBeta p[0.50-0.60]



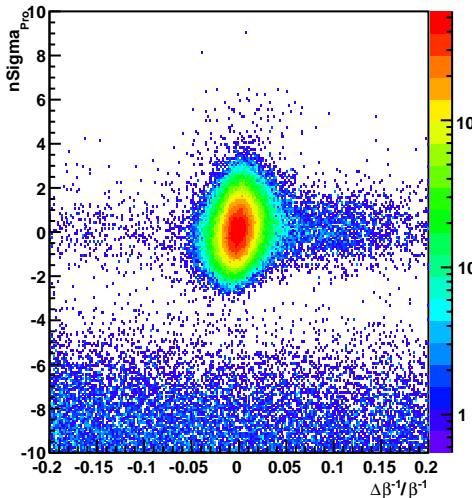
Histogram of hh\_sig\_x\_ob\_y\_ob



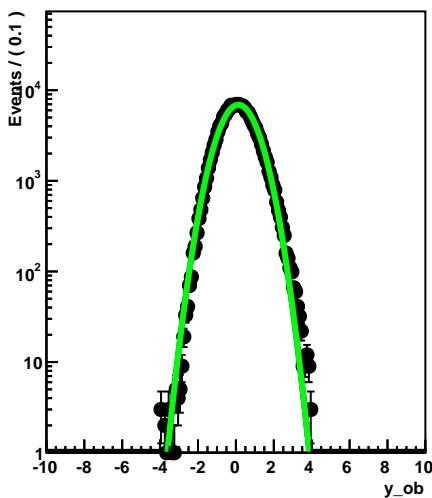
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



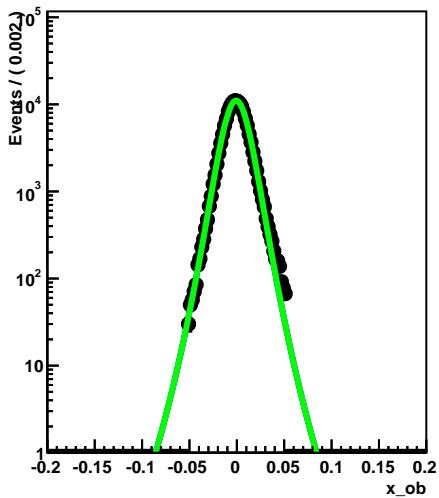
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.6-0.8]



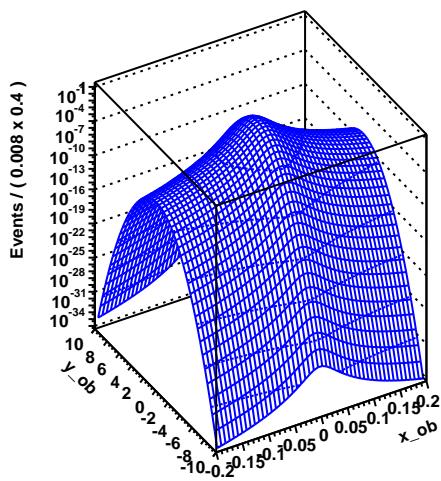
Pro nSigmaDEdx p[0.60-0.80]



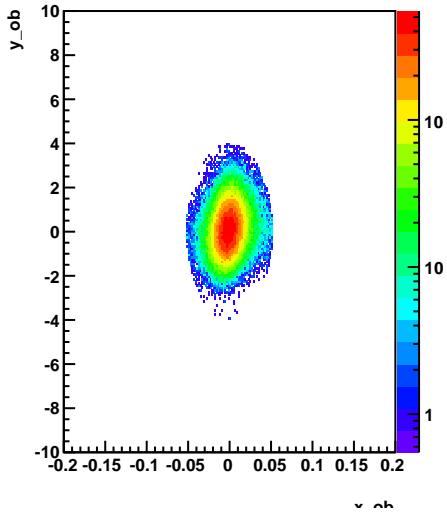
Pro dInvBeta p[0.60-0.80]



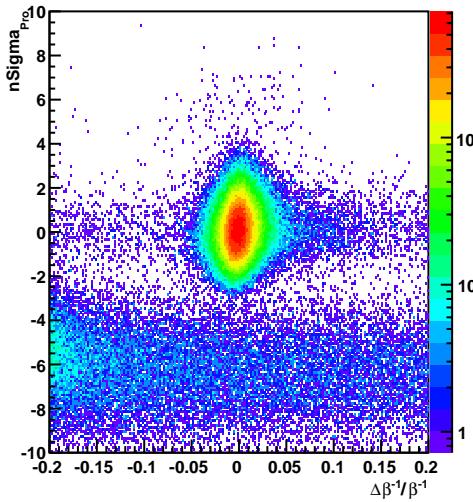
Histogram of hh\_sig\_x\_ob\_y\_ob



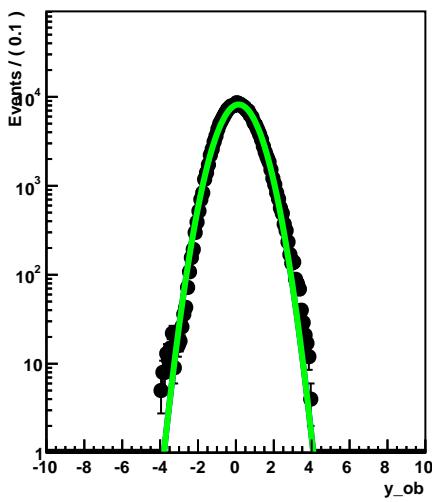
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



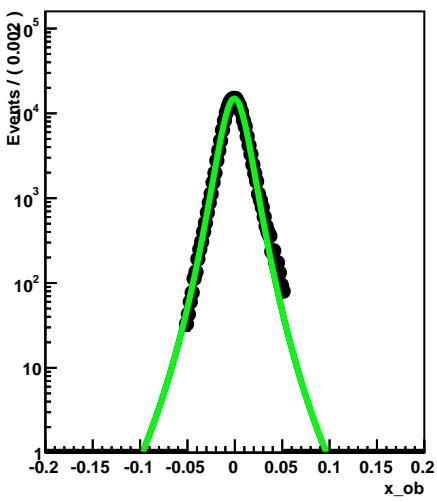
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.6-0.8]



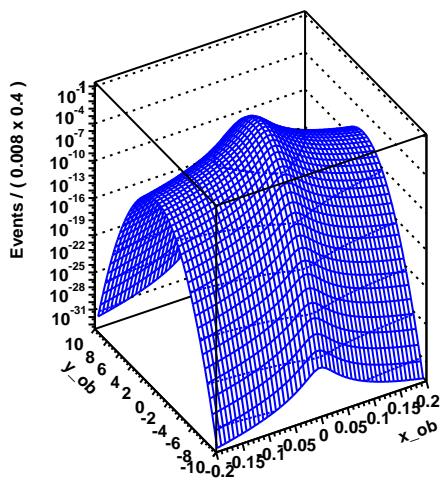
Pro nSigmaDEdx p[0.80-1.00]



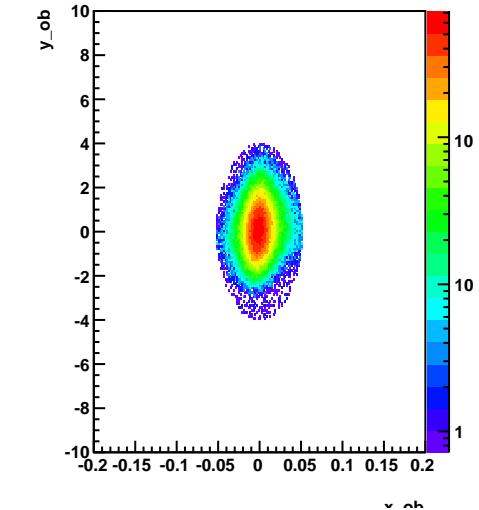
Pro dInvBeta p[0.80-1.00]



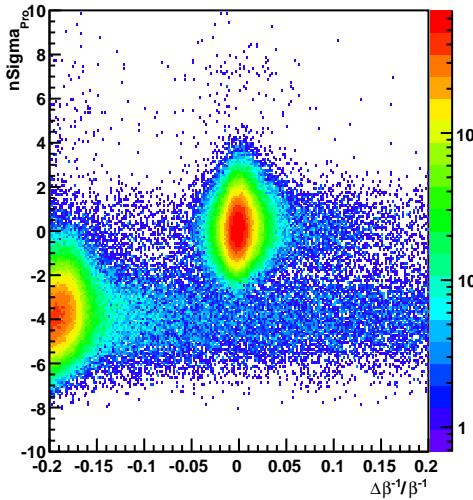
Histogram of hh\_sig\_x\_ob\_y\_ob



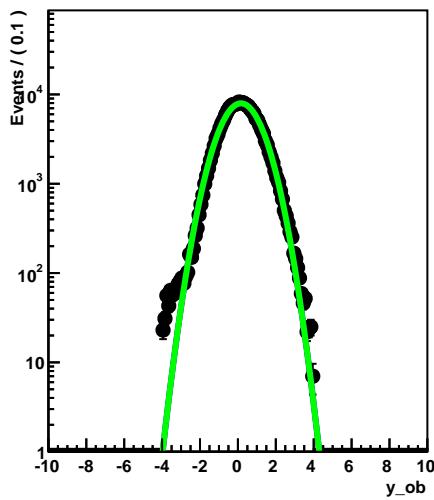
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



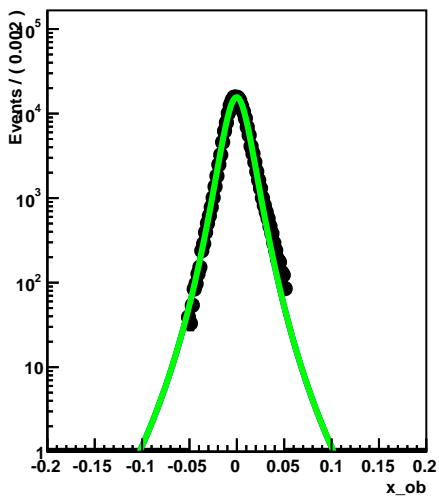
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] | $\eta$ | [0.6-0.8]



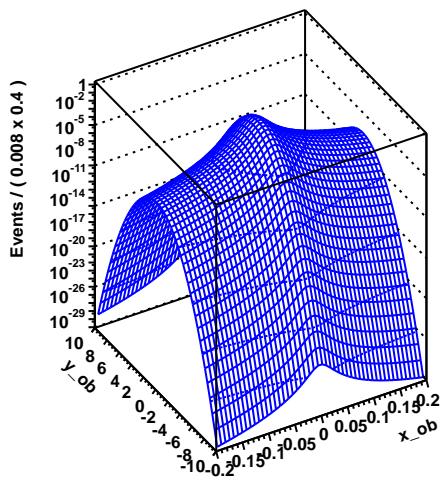
Pro nSigmaDEdx p[1.00-1.20]



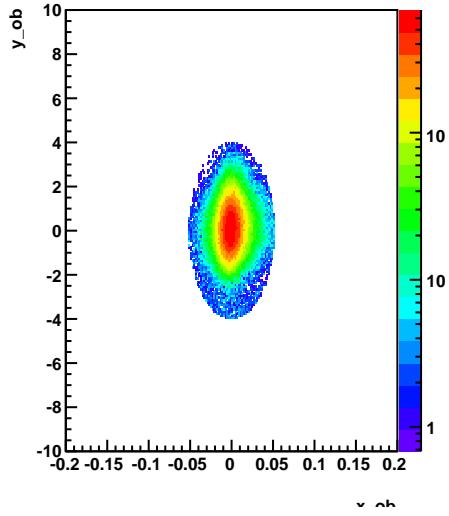
Pro dInvBeta p[1.00-1.20]



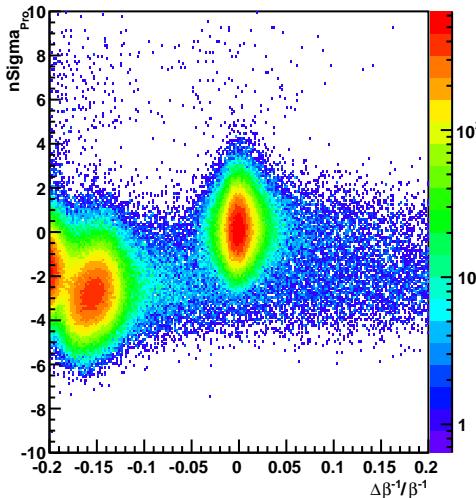
Histogram of hh\_sig\_x\_ob\_y\_ob



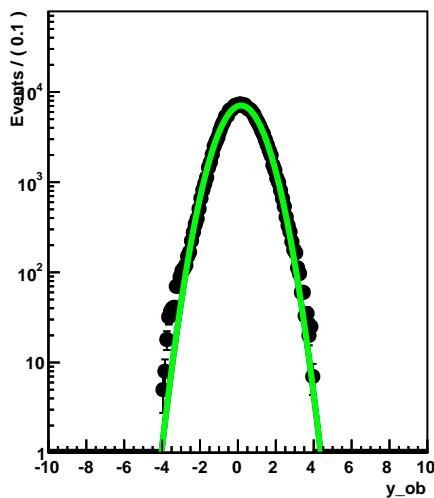
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



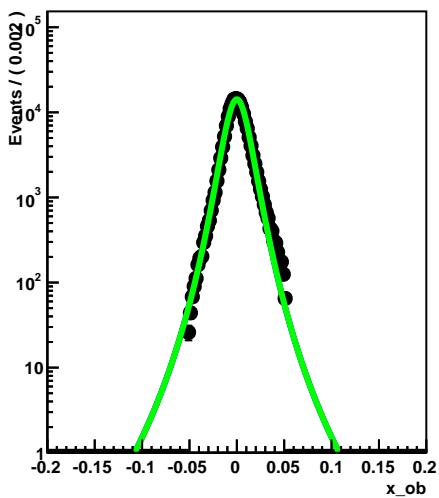
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] | $\eta$ | [0.6-0.8]



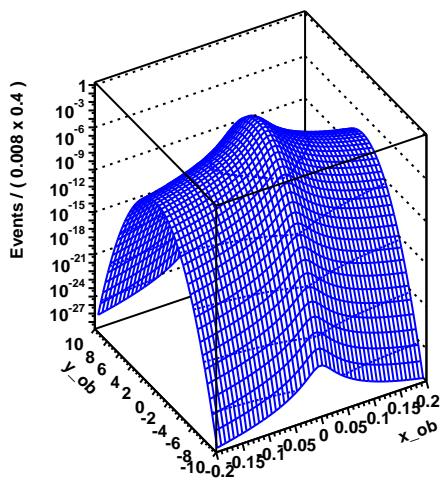
Pro nSigmaDEdx p[1.20-1.40]



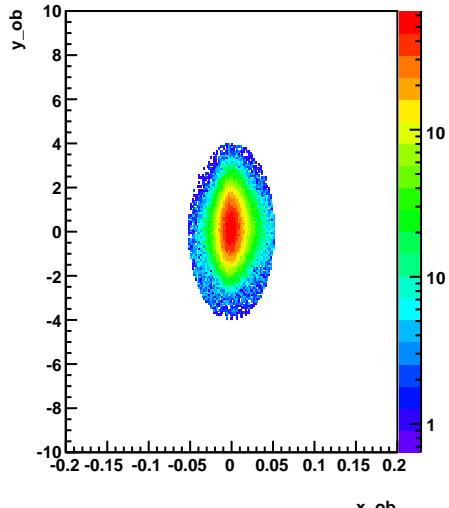
Pro dInvBeta p[1.20-1.40]



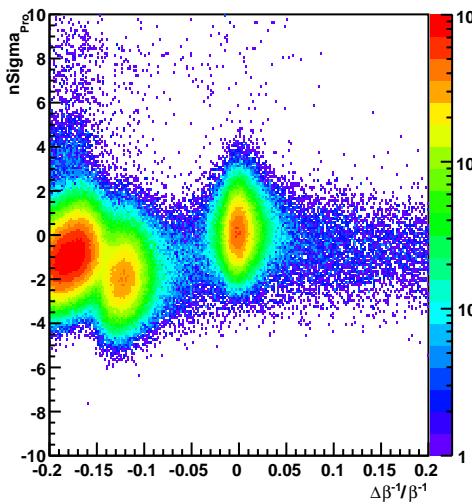
Histogram of hh\_sig\_x\_ob\_y\_ob



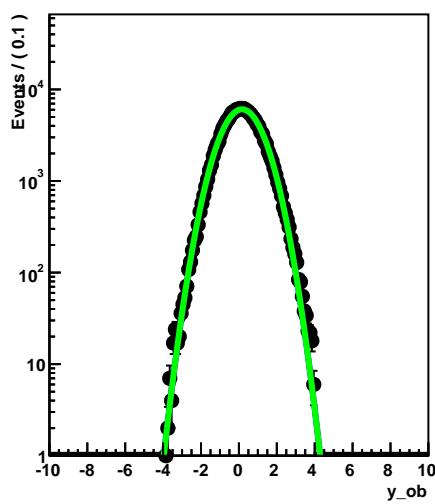
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



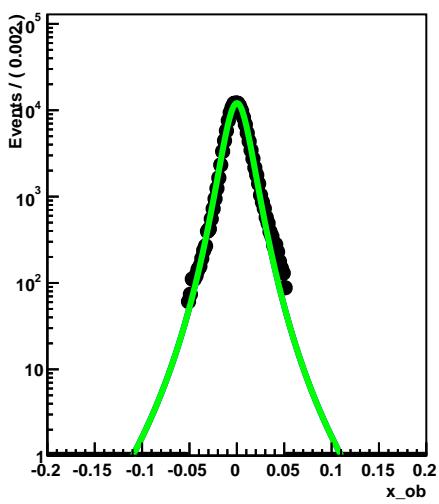
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] | $\eta$ | [0.6-0.8]



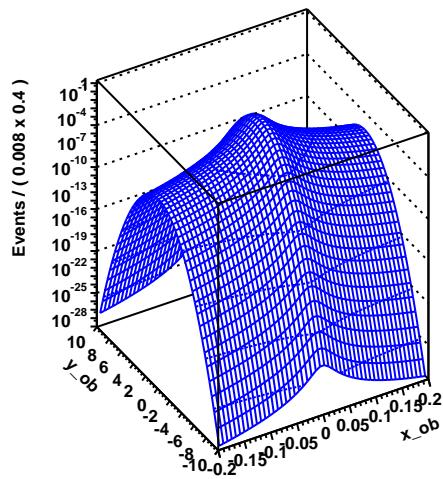
Pro nSigmaDEdx p[1.40-1.60]



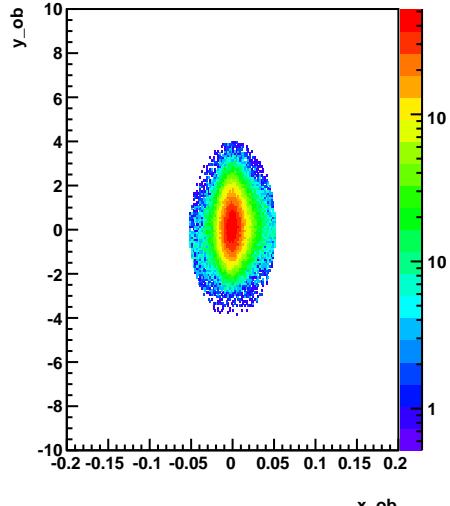
Pro dInvBeta p[1.40-1.60]



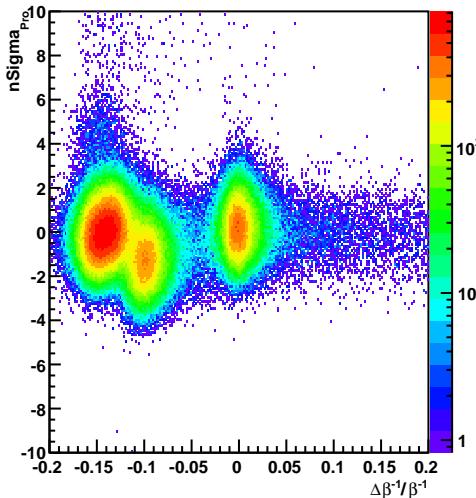
Histogram of hh\_sig\_x\_ob\_y\_ob



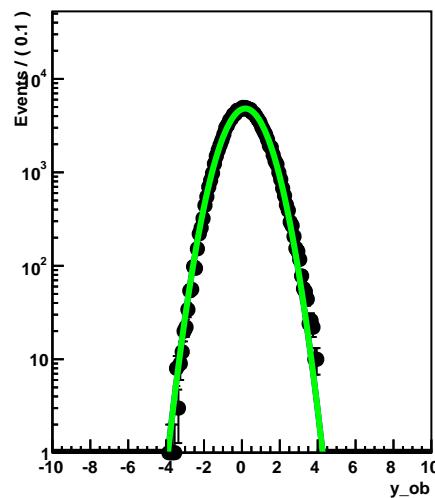
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



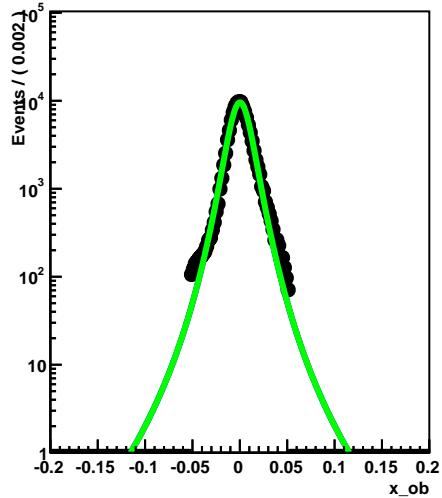
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] | $\eta$ | [0.6-0.8]



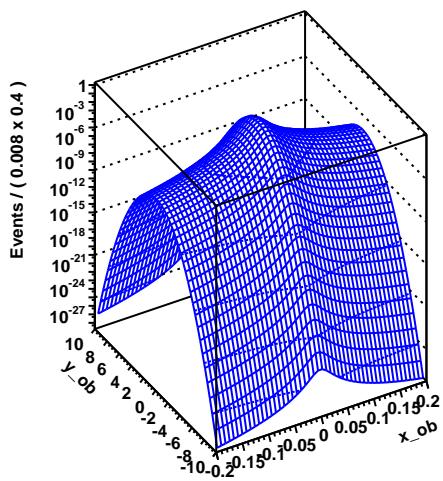
Pro nSigmaDEdx p[1.60-1.80]



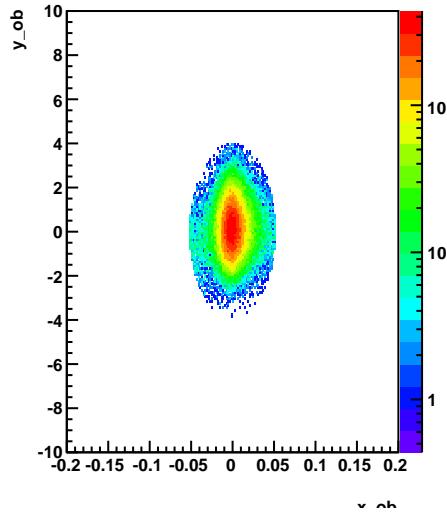
Pro dInvBeta p[1.60-1.80]



Histogram of hh\_sig\_x\_ob\_y\_ob

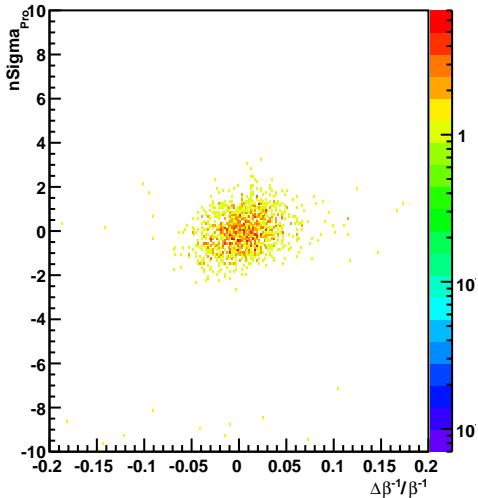


Histogram of hh\_data\_Pro\_x\_ob\_y\_ob

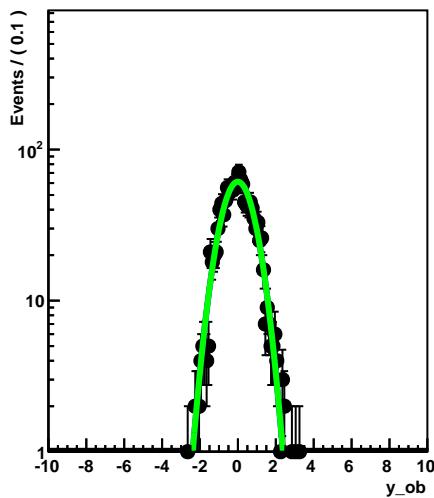




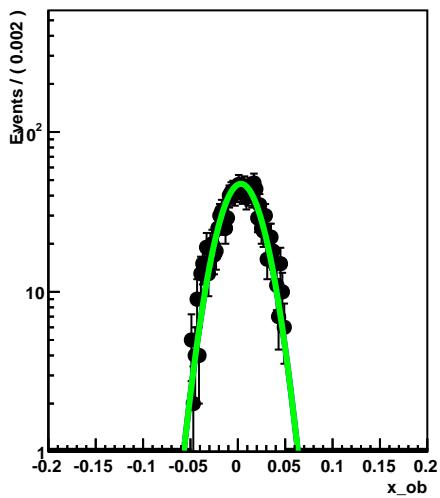
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.30-0.40] | $\eta$ | [0.8-1.0]



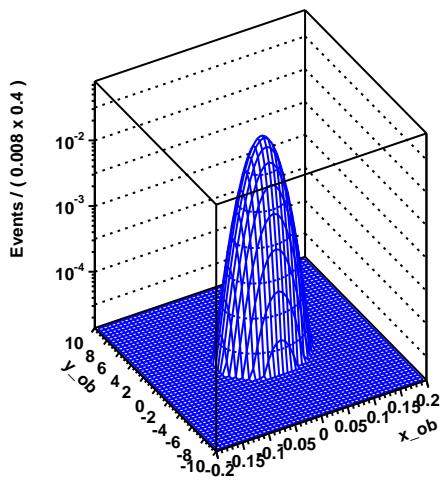
Pro nSigmaDEdx p[0.30-0.40]



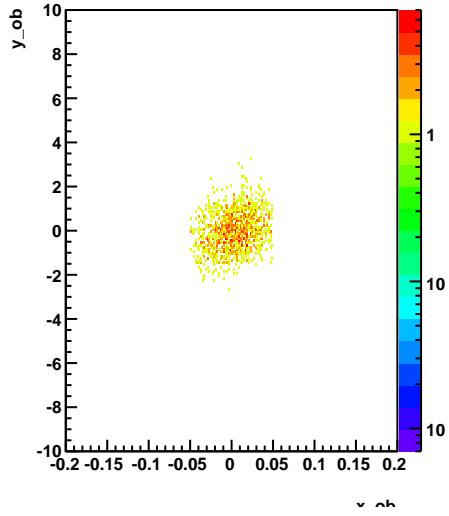
Pro dInvBeta p[0.30-0.40]



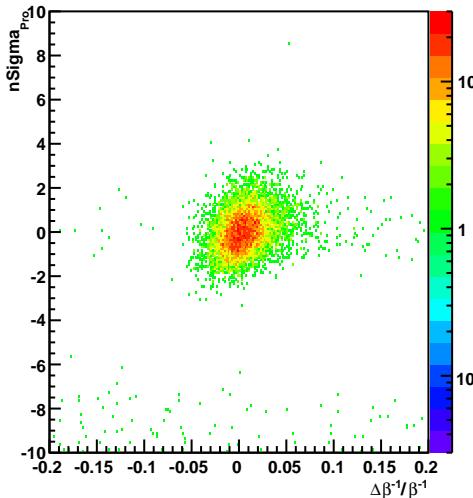
Histogram of hh\_sig\_x\_ob\_y\_ob



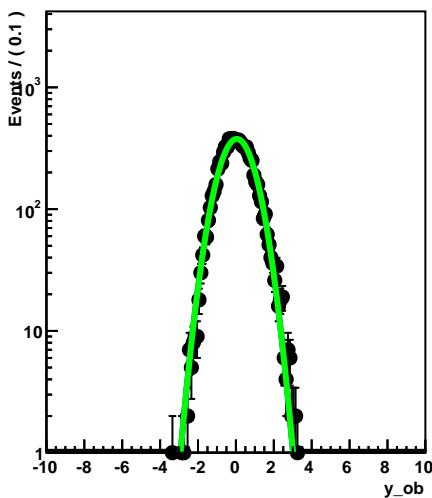
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



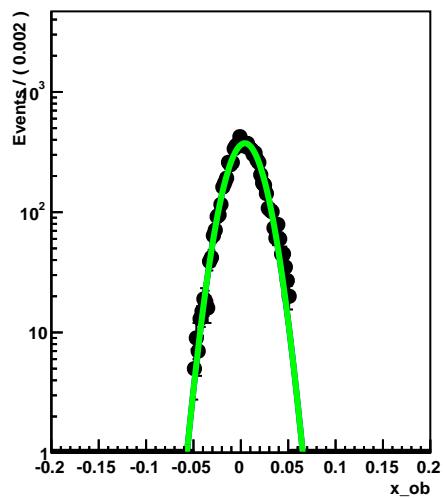
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.40-0.50] | $\eta$ | [0.8-1.0]



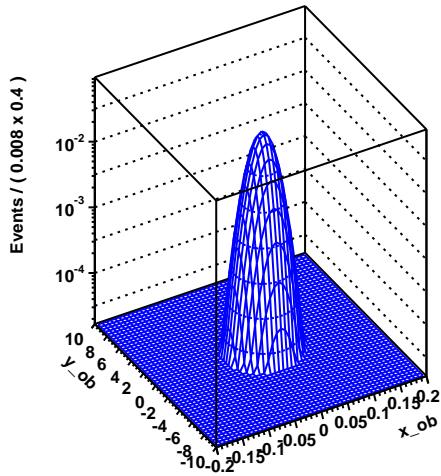
Pro nSigmaDEdx p[0.40-0.50]



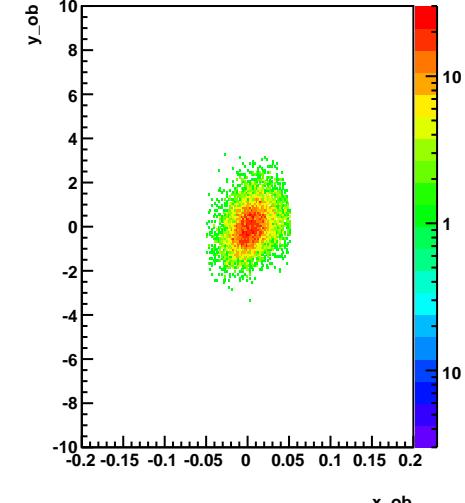
Pro dInvBeta p[0.40-0.50]



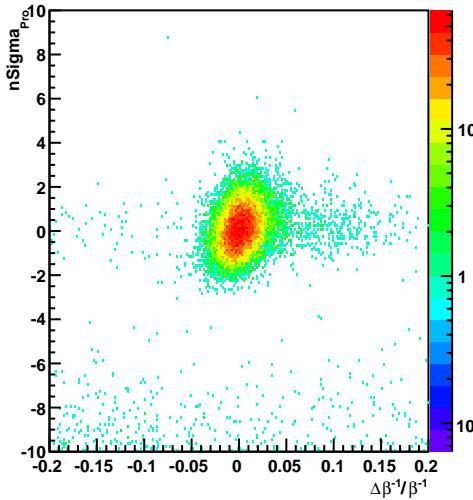
Histogram of hh\_sig\_x\_ob\_y\_ob



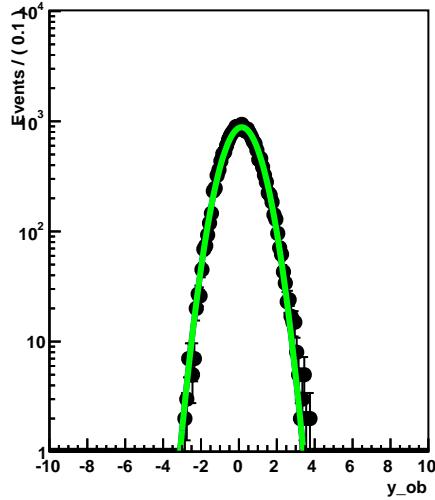
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



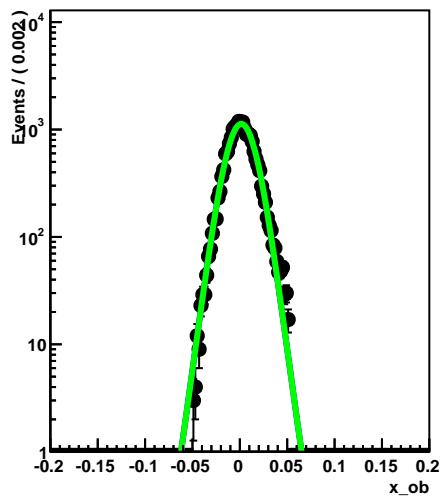
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.50-0.60] | $\eta$ | [0.8-1.0]



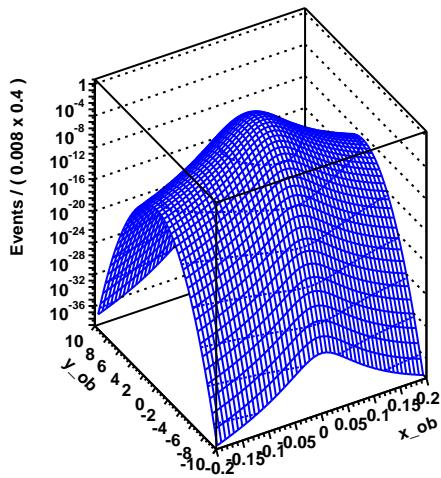
Pro nSigmaDEdx p[0.50-0.60]



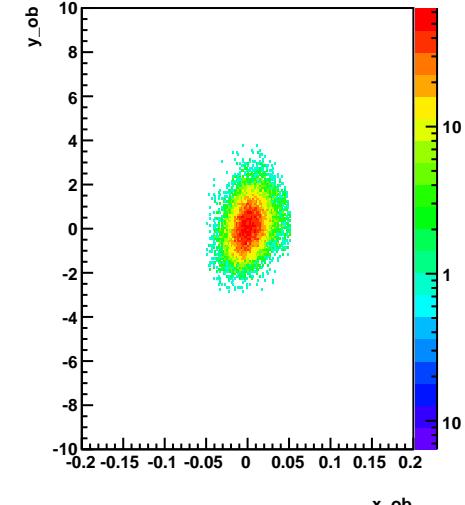
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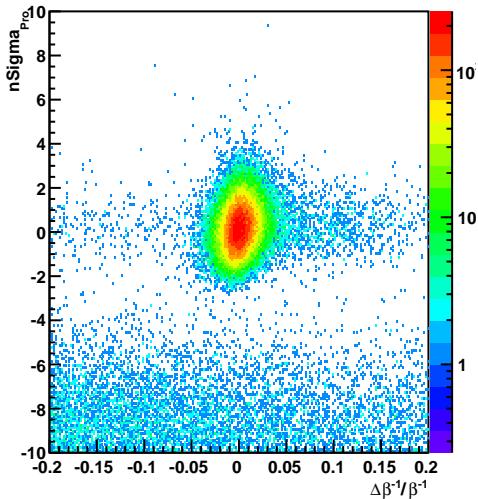
Histogram of hh\_sig\_x\_ob\_y\_ob



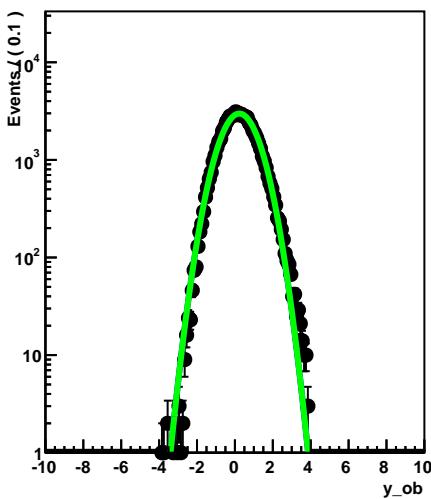
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



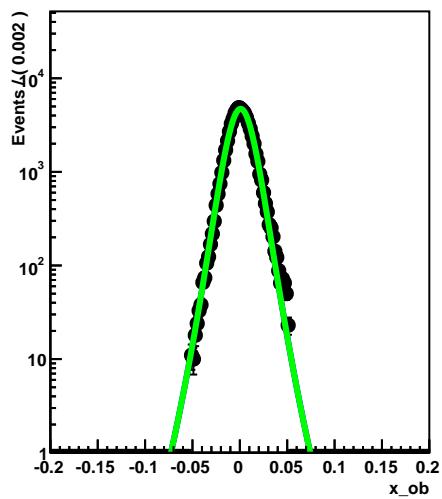
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.60-0.80] | $\eta$ | [0.8-1.0]



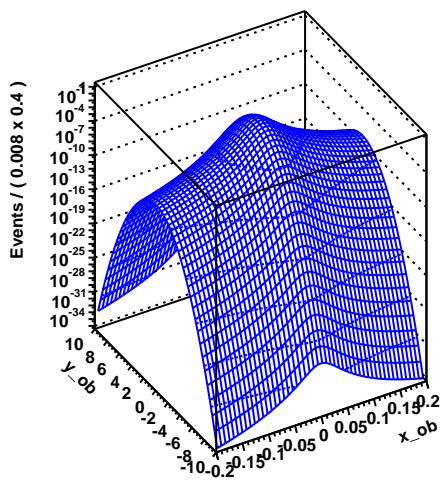
Pro nSigmaDEdx p[0.60-0.80]



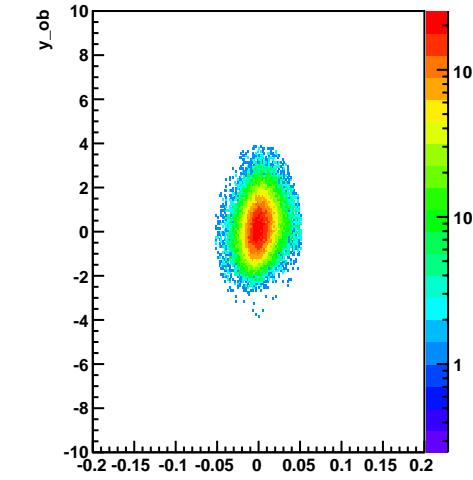
Pro dInvBeta p[0.60-0.80]



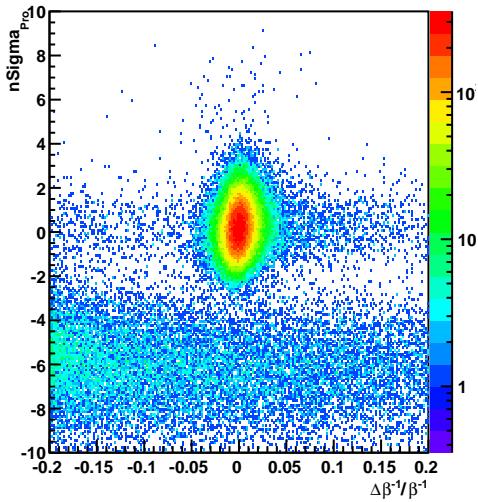
Histogram of hh\_sig\_x\_ob\_y\_ob



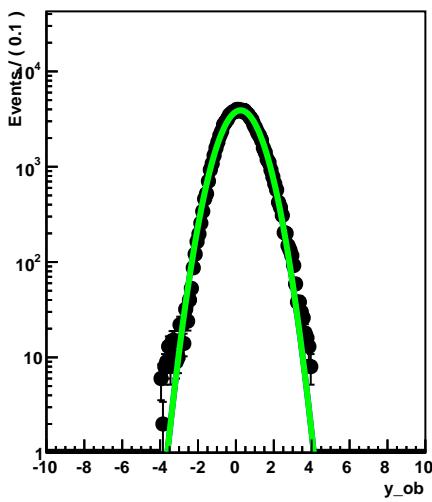
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



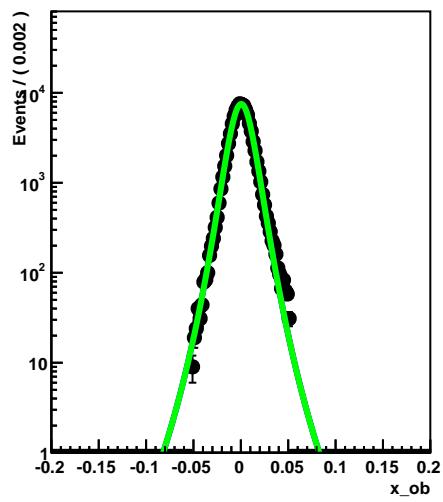
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [0.80-1.00] | $\eta$ | [0.8-1.0]



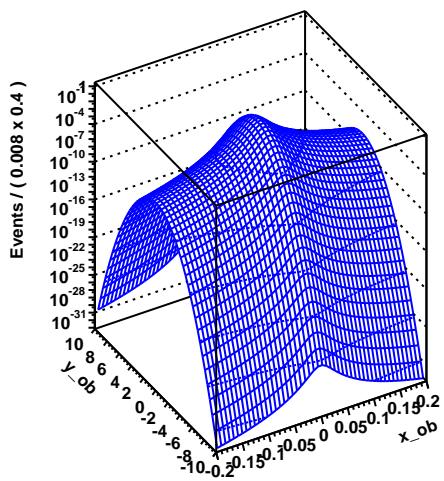
Pro nSigmaDEdx p[0.80-1.00]



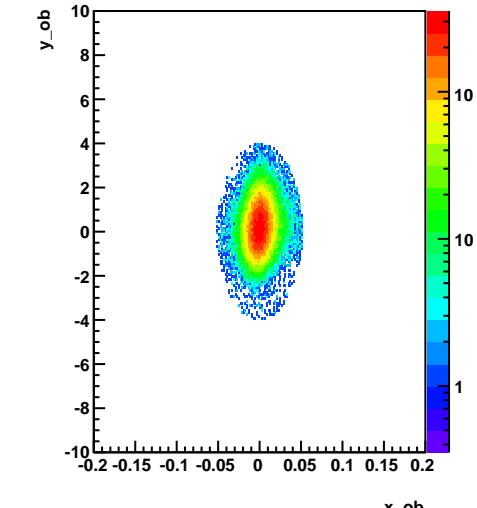
Pro dInvBeta p[0.80-1.00]



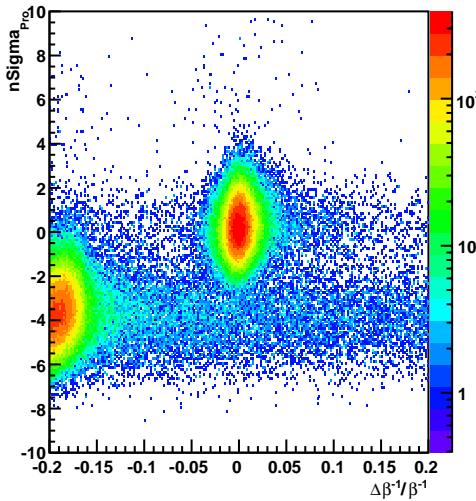
Histogram of hh\_sig\_x\_ob\_y\_ob



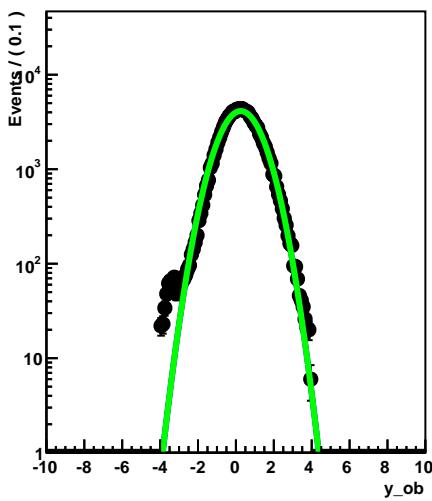
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



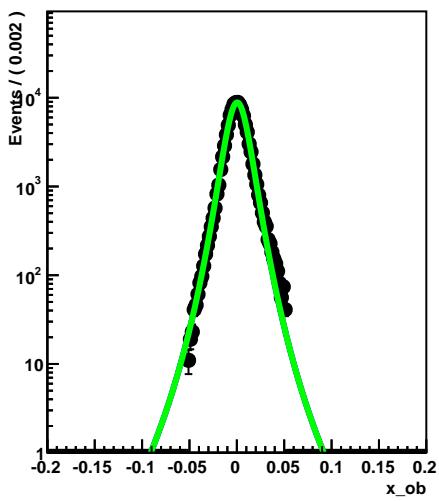
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.00-1.20] | $\eta$ | [0.8-1.0]



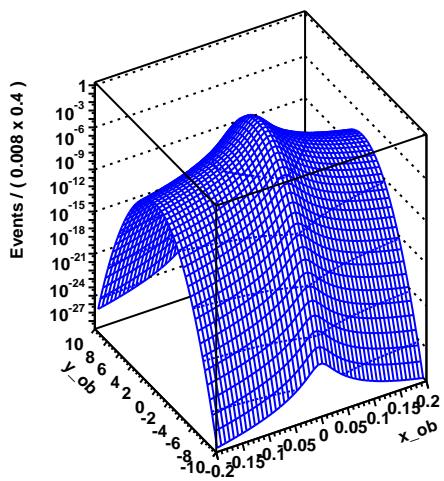
Pro nSigmaDEdx p[1.00-1.20]



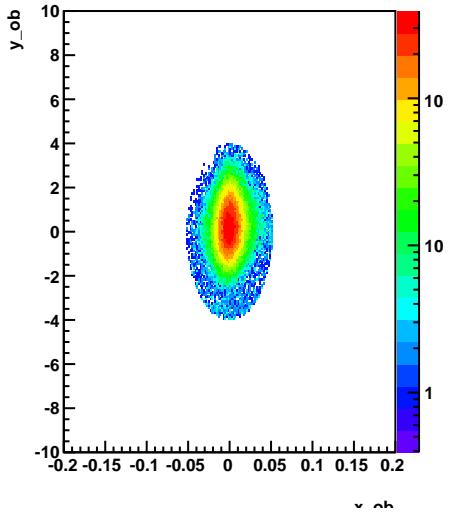
Pro dInvBeta p[1.00-1.20]



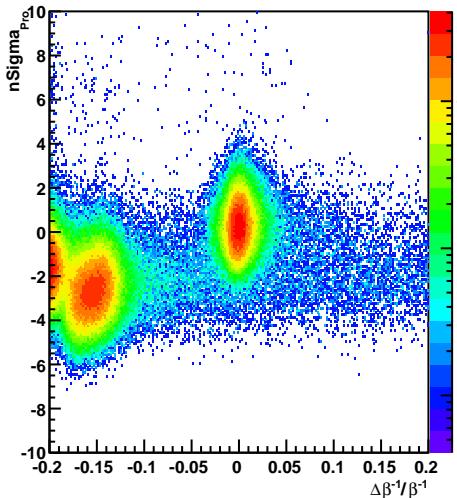
Histogram of hh\_sig\_x\_ob\_y\_ob



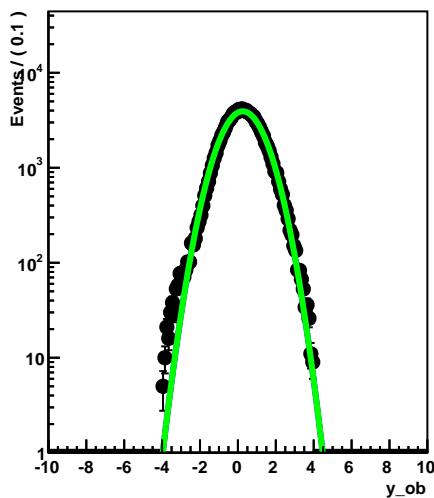
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



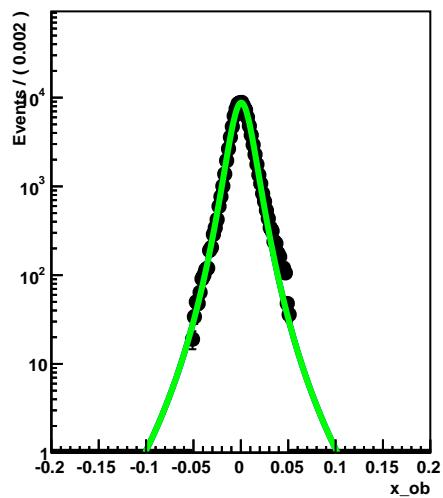
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.20-1.40] | $\eta$ | [0.8-1.0]



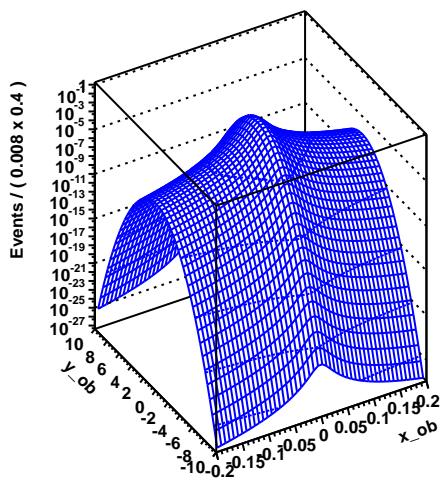
Pro nSigmaDEdx p[1.20-1.40]



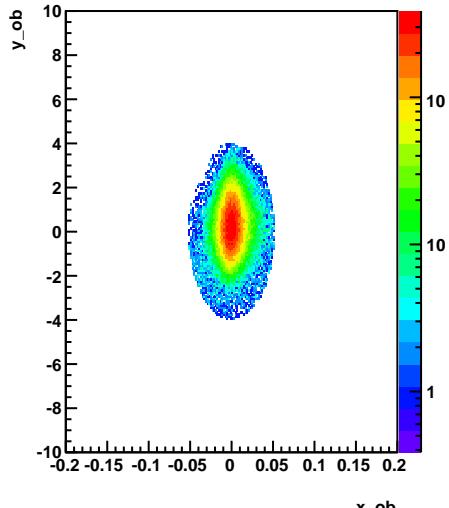
Pro dInvBeta p[1.20-1.40]



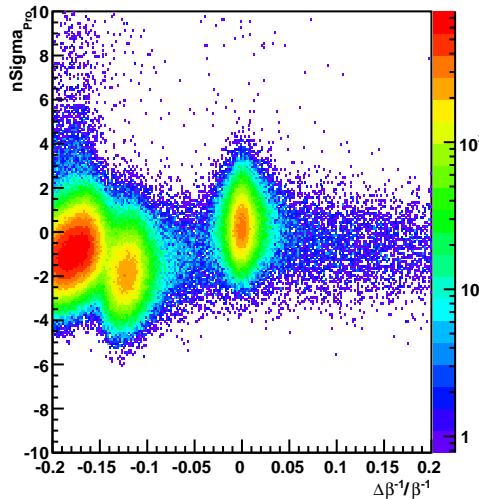
Histogram of hh\_sig\_x\_ob\_y\_ob



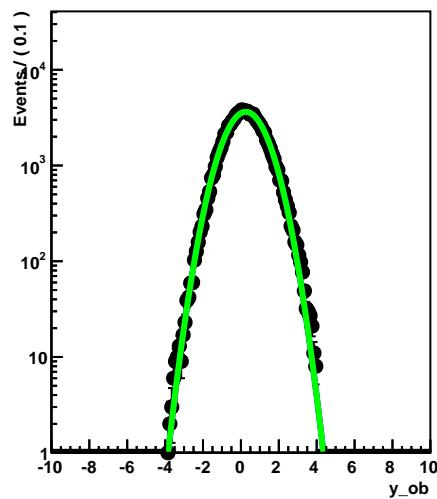
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



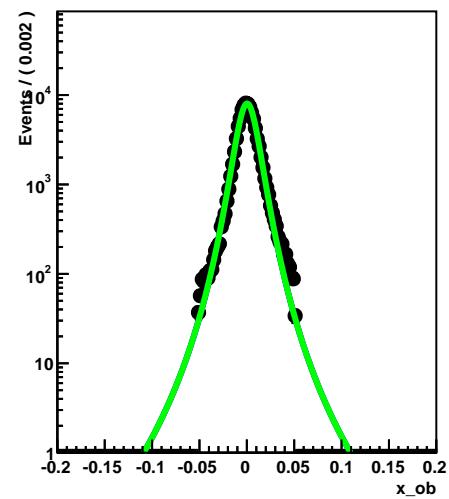
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.40-1.60] | $\eta$ | [0.8-1.0]



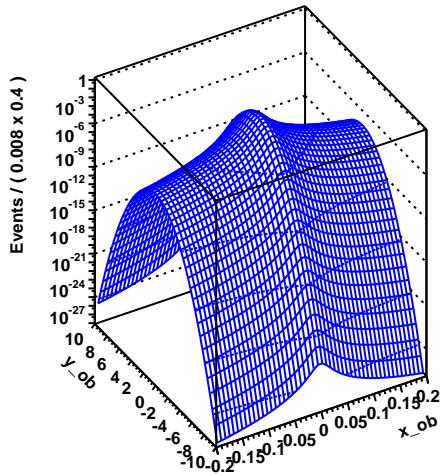
Pro nSigmaDEdx p[1.40-1.60]



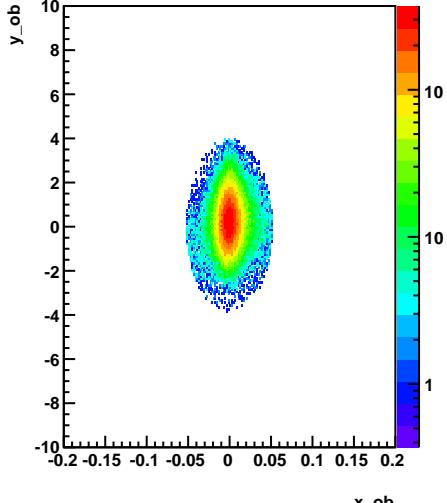
Pro dInvBeta p[1.40-1.60]



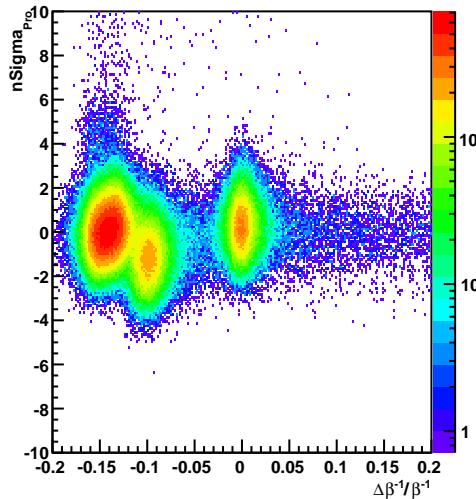
Histogram of hh\_sig\_x\_ob\_y\_ob



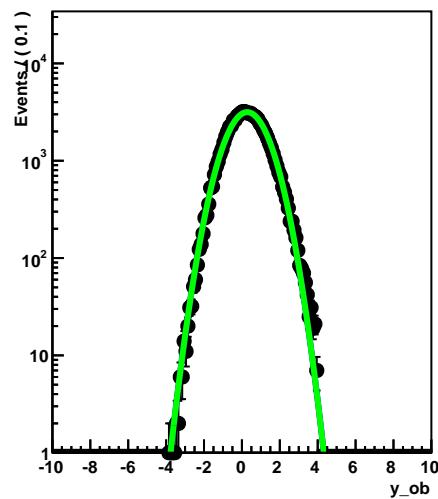
Histogram of hh\_data\_Pro\_x\_ob\_y\_ob



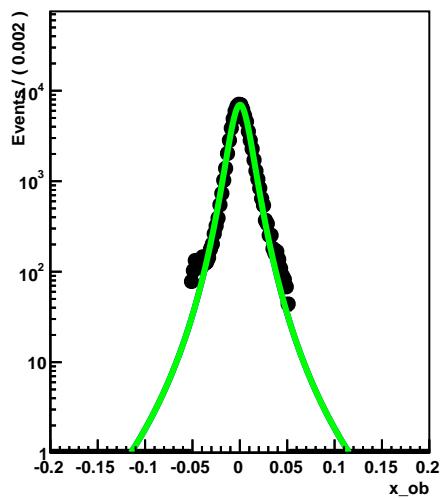
n $\sigma$  vs.  $\Delta\beta^{-1}/\beta^{-1}$  p [1.60-1.80] | $\eta$ | [0.8-1.0]



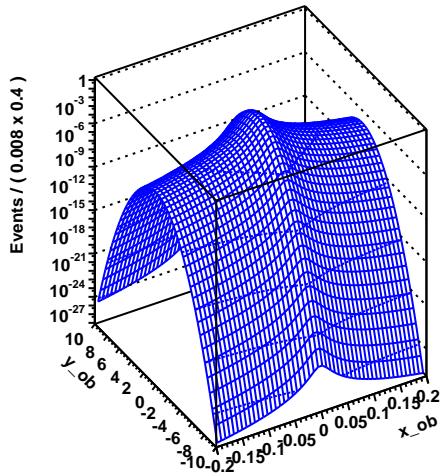
Pro nSigmaDEdx p[1.60-1.80]



Pro dInvBeta p[1.60-1.80]



Histogram of hh\_sig\_x\_ob\_y\_ob



Histogram of hh\_data\_Pro\_x\_ob\_y\_ob

