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What is an event?

1000 tracks (equally $+B^-$) with vertices
uniformly distributed in collision volume

★ Acceptance $\left\{ \begin{array}{l} P_t > 250 \text{ MeV} \\ \theta > 22^\circ \text{ } (|\eta| \leq 1.6) \\ \text{+-pair Open Ang.} > 10 \text{ mrad} \end{array} \right\}$

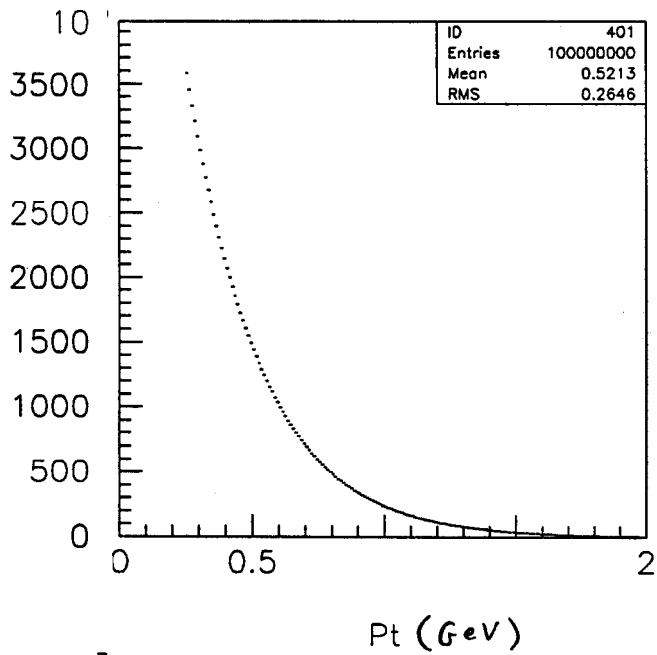
Additional cut $\text{+-pair Open Ang.} \leq 30^\circ$

P-violator

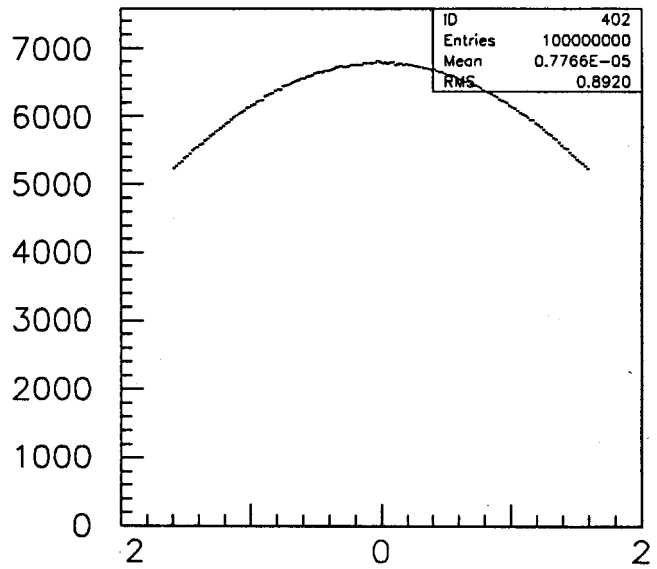
Single, big (100% volume) domain
with uniformly directed (in 4π)
chromomagnetic field with bending power
 $\Delta p = 30 \text{ MeV}$ for max. path length (2Rd)

Simulation samples:

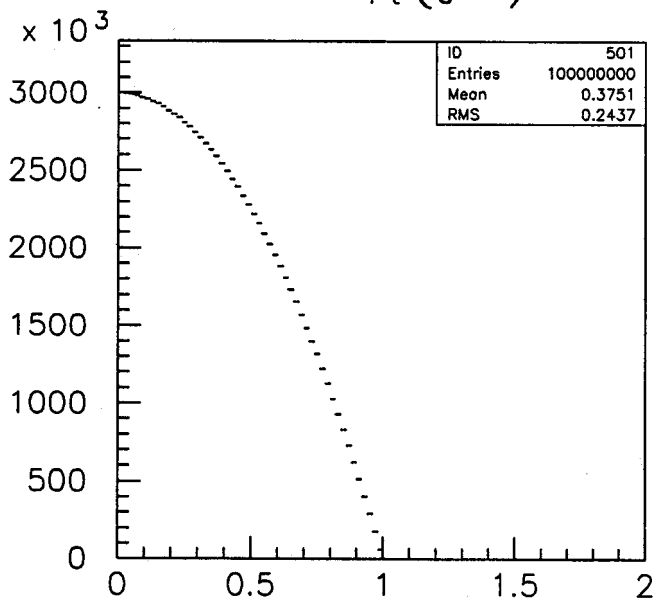
- 1) 100k events with c.m. field
- 2) 85k events with NO field



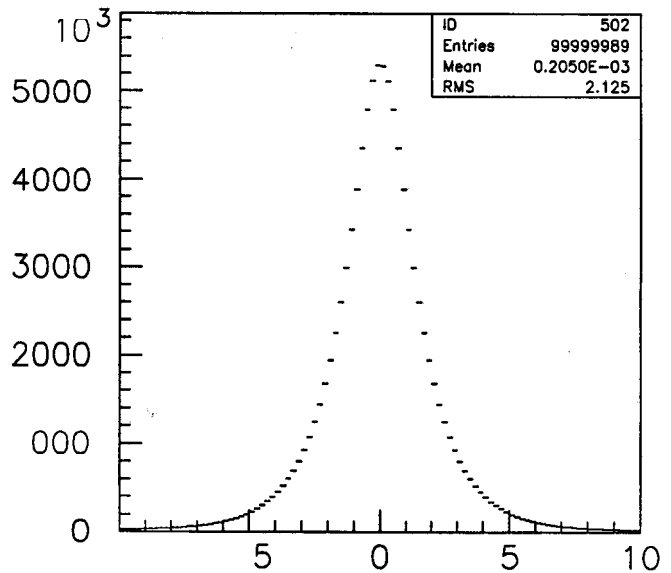
Pt (GeV)



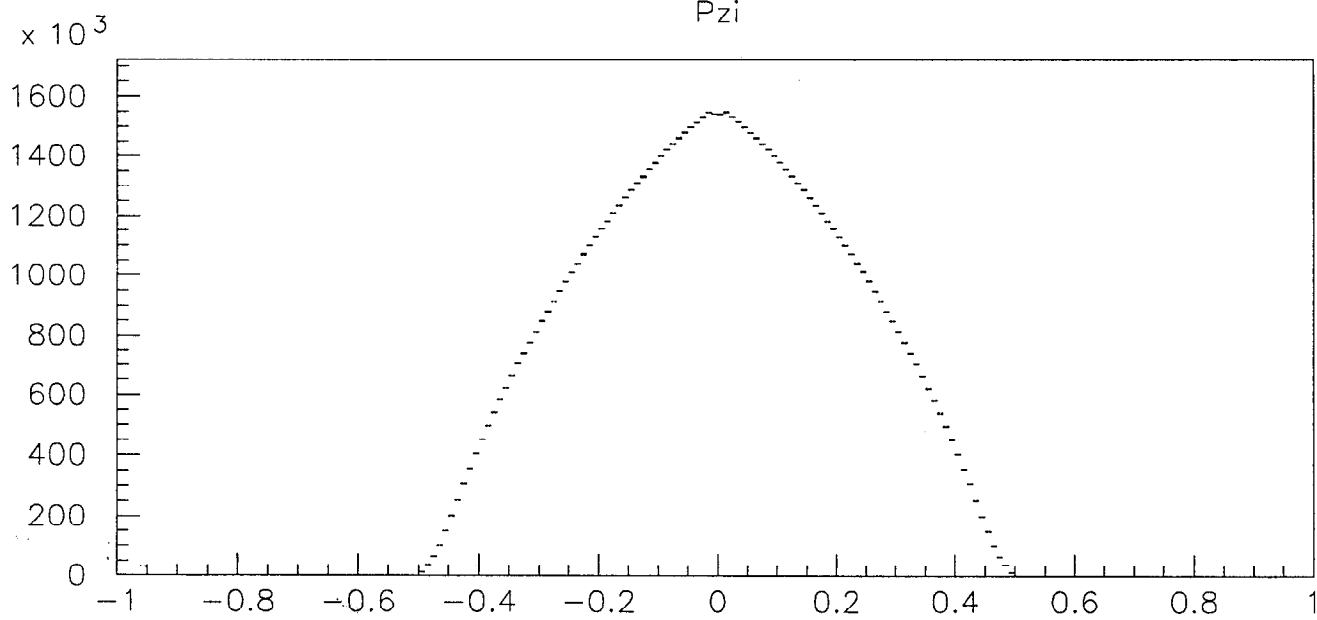
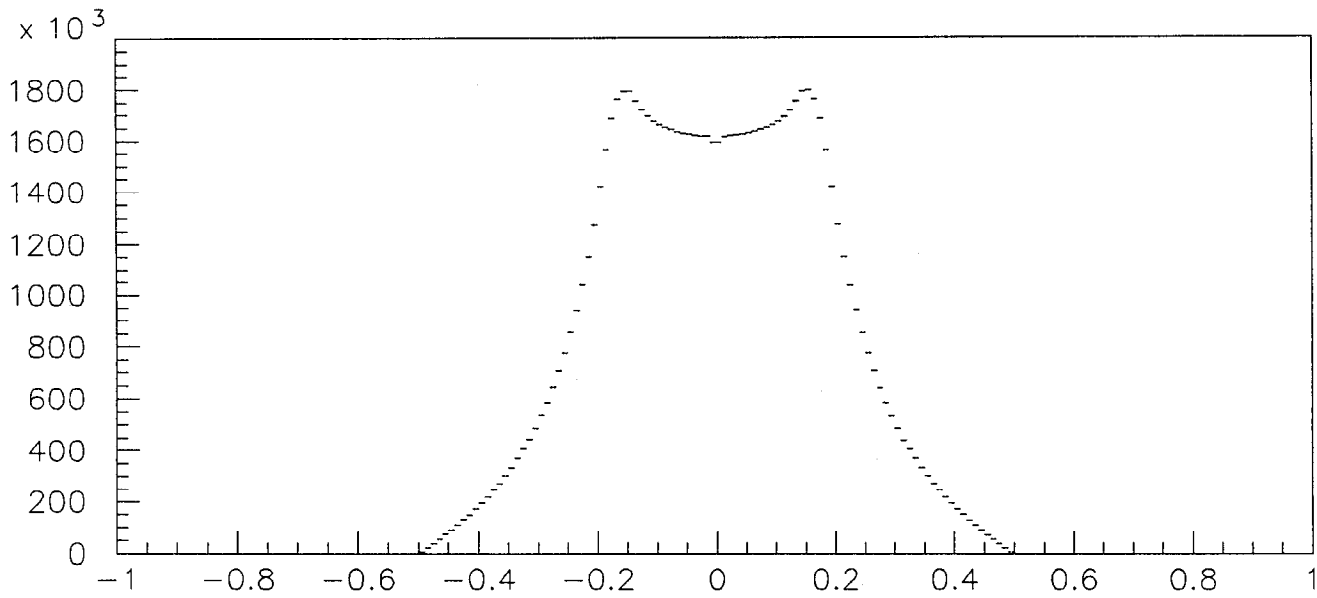
y



pI(2R)



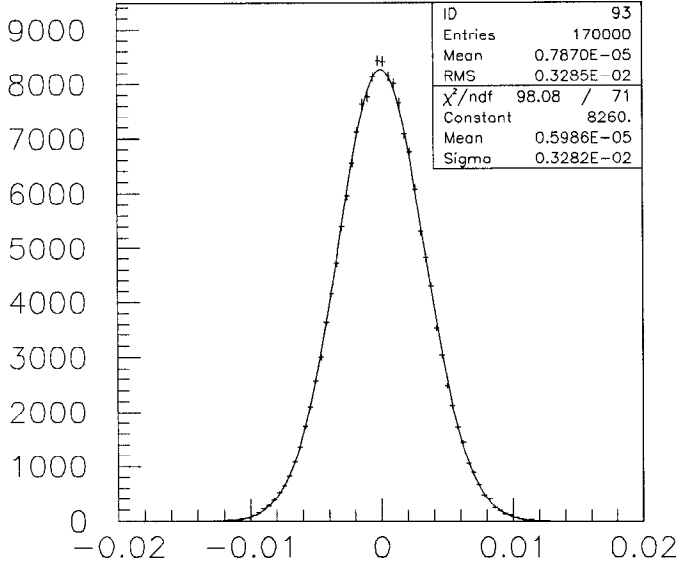
defl(deg)



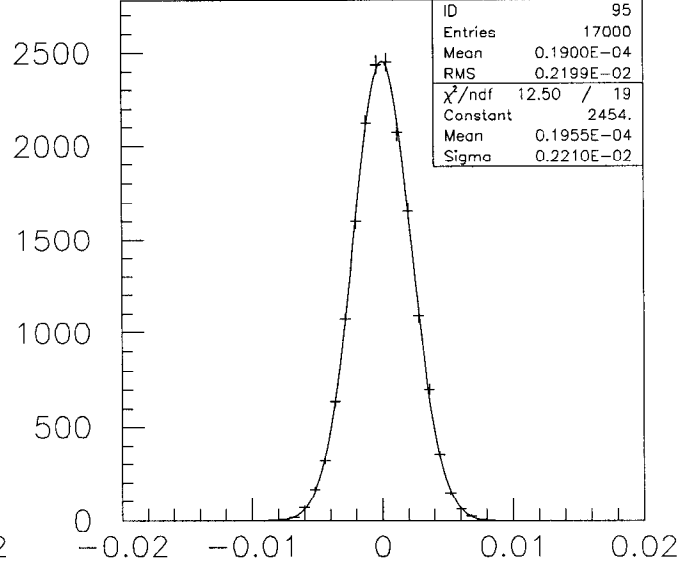
P_{xi}, P_{yi}

$$|\vec{B}|=0$$

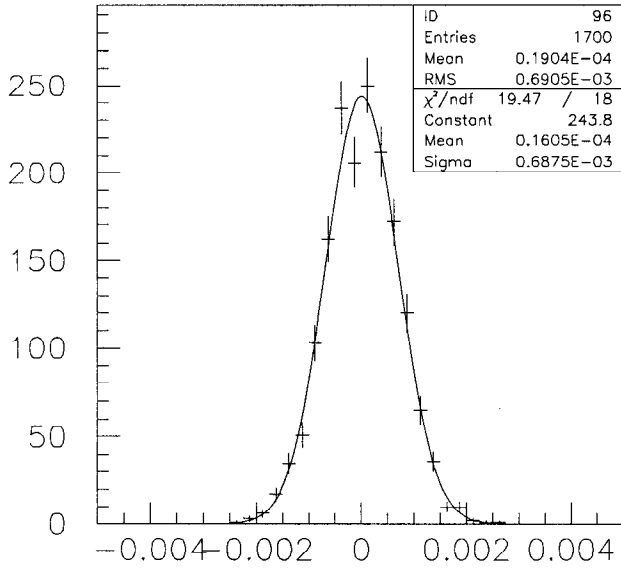
$$x+y$$



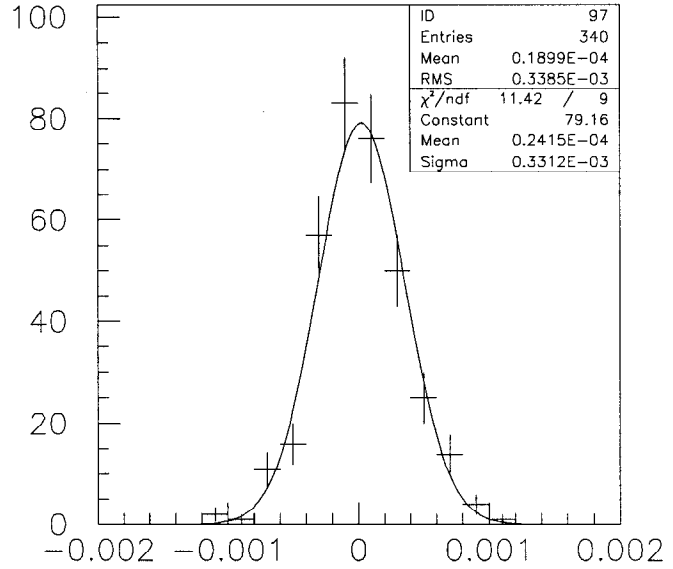
P_x



N_{x10+}



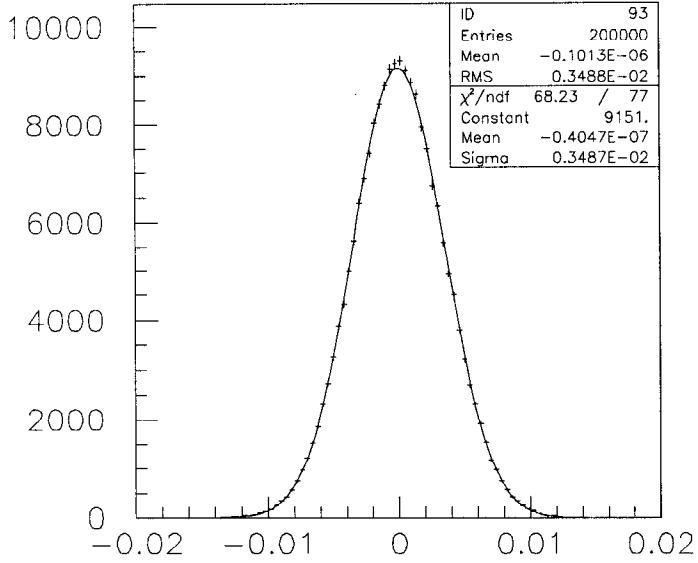
N_{x100+}



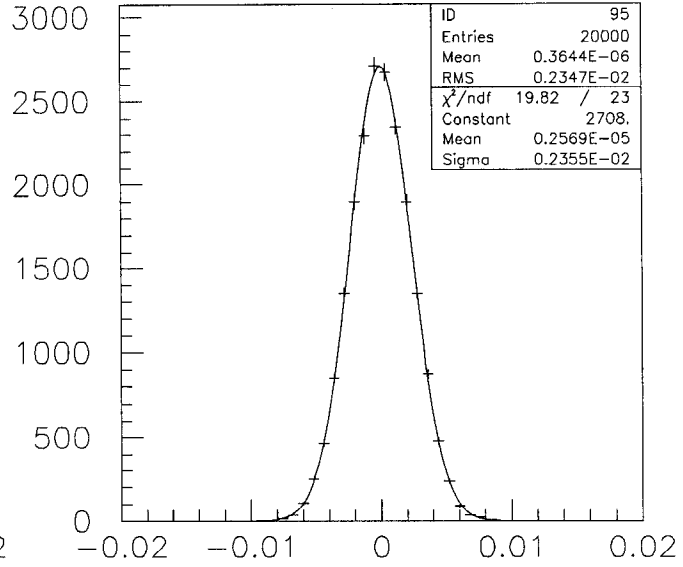
N_{x500+}

$$|\vec{B}| = 1$$

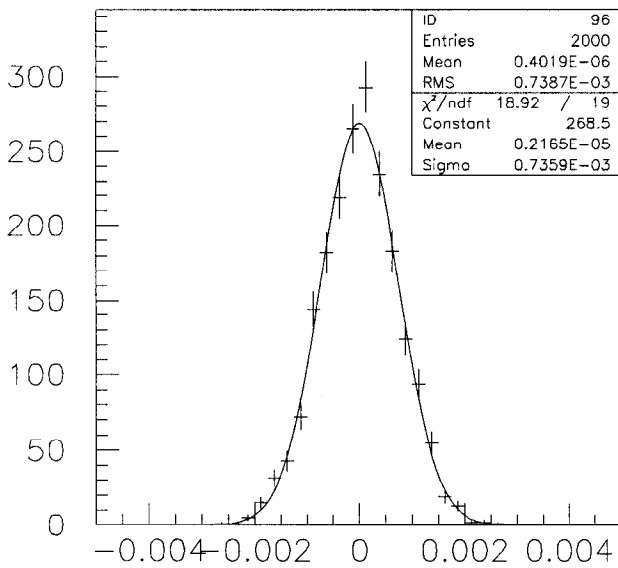
$$x + y$$



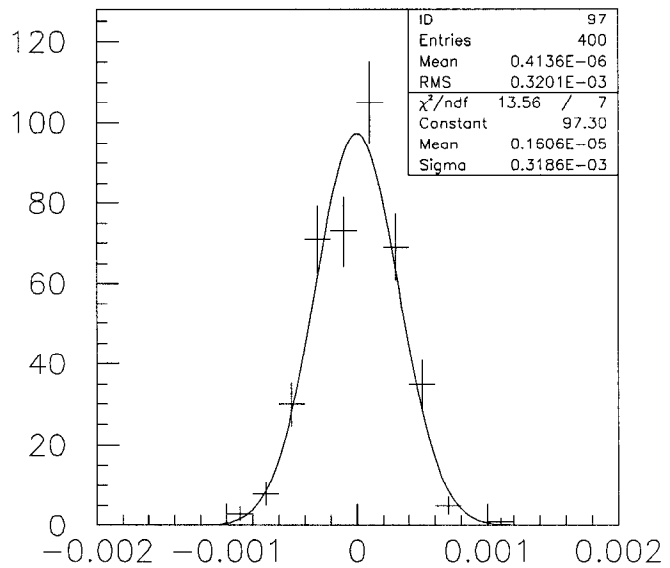
P_x



N_{x10+}



N_{x100+}



N_{x500+}

Sigmas

	$B = 0$	$(\bar{B}) = 1$
P	$(3.2824 \pm 0.0058) \cdot 10^{-3}$	$(3.4867 \pm 0.0058) \cdot 10^{-3}$
$N_{+} \ 10\text{ev}$	$(2.210 \pm 0.012) \cdot 10^{-3}$	$(2.355 \pm 0.012) \cdot 10^{-3}$
$N_{+} \ 100\text{ev}$	$(6.87 \pm 0.12) \cdot 10^{-4}$	$(7.36 \pm 0.12) \cdot 10^{-4}$
$N_{+} \ 500\text{ev}$	$(3.31 \pm 0.16) \cdot 10^{-4}$	$(3.19 \pm 0.12) \cdot 10^{-4}$