

e^-e^- -Collision

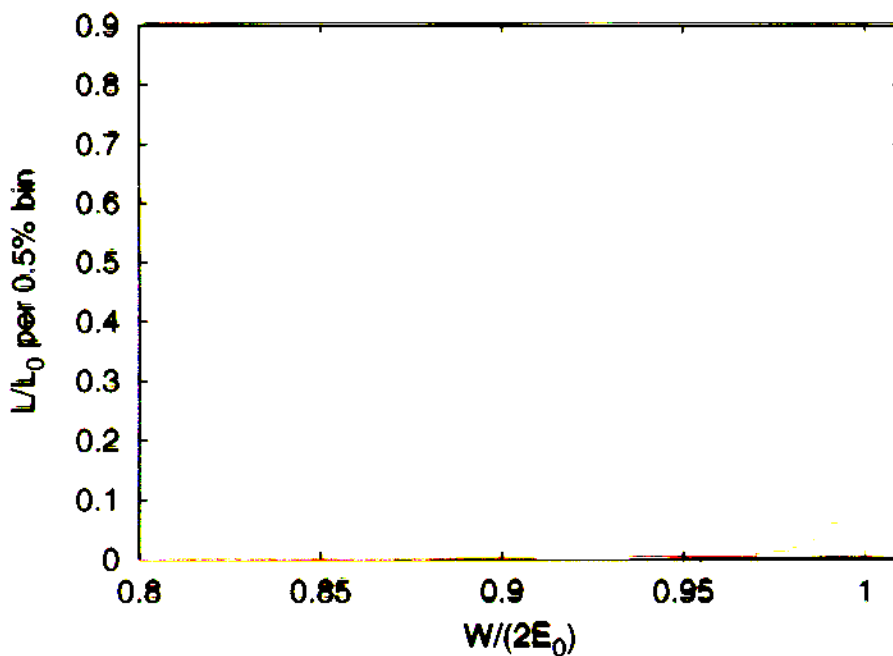
- Beam parameters ($\sigma, \epsilon, \beta, N$) as for e^+e^-
- no waist shift
- results

$$\mathcal{L} = 4.1 \cdot 10^{33} \text{ cm}^{-2}\text{s}^{-1}$$

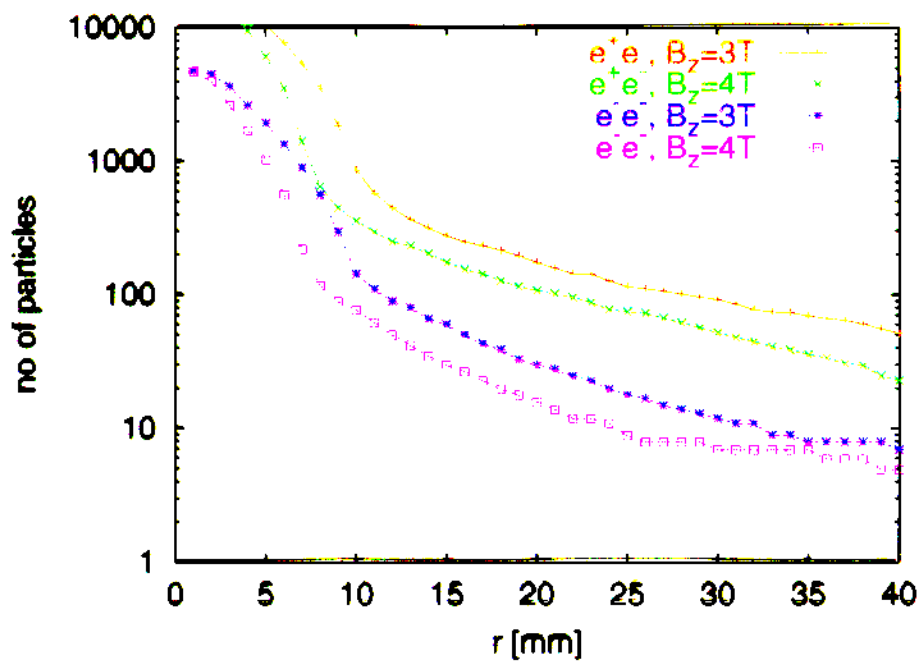
$$\delta = 2.3\%$$

$$n_\gamma = 1.4$$

$$E_\gamma = 4 \text{ GeV}$$



Particles in the Vertex Detector



Background

- number of pair particles: 26500
total energy 41300 GeV
- number of particles with $\theta > 0.15$ and $p_{\perp} > 20 \text{ MeV}/c$: 7.5
- energy in the inner mask: $\approx 1700 \text{ GeV}$ per side
(at $B_z = 3 \text{ T}$)
- hadronic events ($E_{CM} > 5 \text{ GeV}$): 0.03
- minijets ($p_{\perp} > 3.2 \text{ GeV}/c$): $0.08 \cdot 10^{-2}$

