

Remarks:

- Fixed order theory in reasonable agreement with Tevatron data up to $p_T \simeq 5m_b$
- At $p_T \lesssim m_b$ factorization less obvious. Depends on definition of convolution variable z : $p_B = zp_b$ or $p_T^B = zp_T^b$ or $p_B^+ = zp_b^+$ or $\vec{p}_B = z\vec{p}_b$
- Less hadronization effects than originally believed:
 ϵ -parameter small corresponding to a hard fragmentation function.
Harder FF \rightarrow harder p_T -spectrum
- Larger $\alpha_s(M_Z) \rightarrow$ harder p_T -spectrum
- Mass dependence important for $p_T \lesssim m$ (peak) $\rightarrow \sigma_{tot}$
- Only the 4th or 5th Mellin-moment of the FF is relevant for large p_T [M. Mangano]:
 $d\sigma^b/dp_T(b) \simeq A/p_T(b)^n$ with $n \simeq 4, \dots, 5$

$$d\sigma^B/dp_T(B) = \int dz/z D(z) d\sigma^b/dp_T(b) [p_T(b) = p_T(B)/z] = A/p_T(B)^n \times \int dz z^{n-1} D(z)$$