



Beam Distribution MD

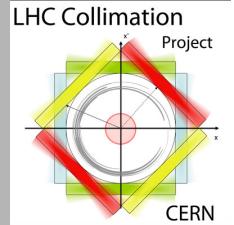
Sat, 05.11.2011 3:00 to 4:00

F. Burkart

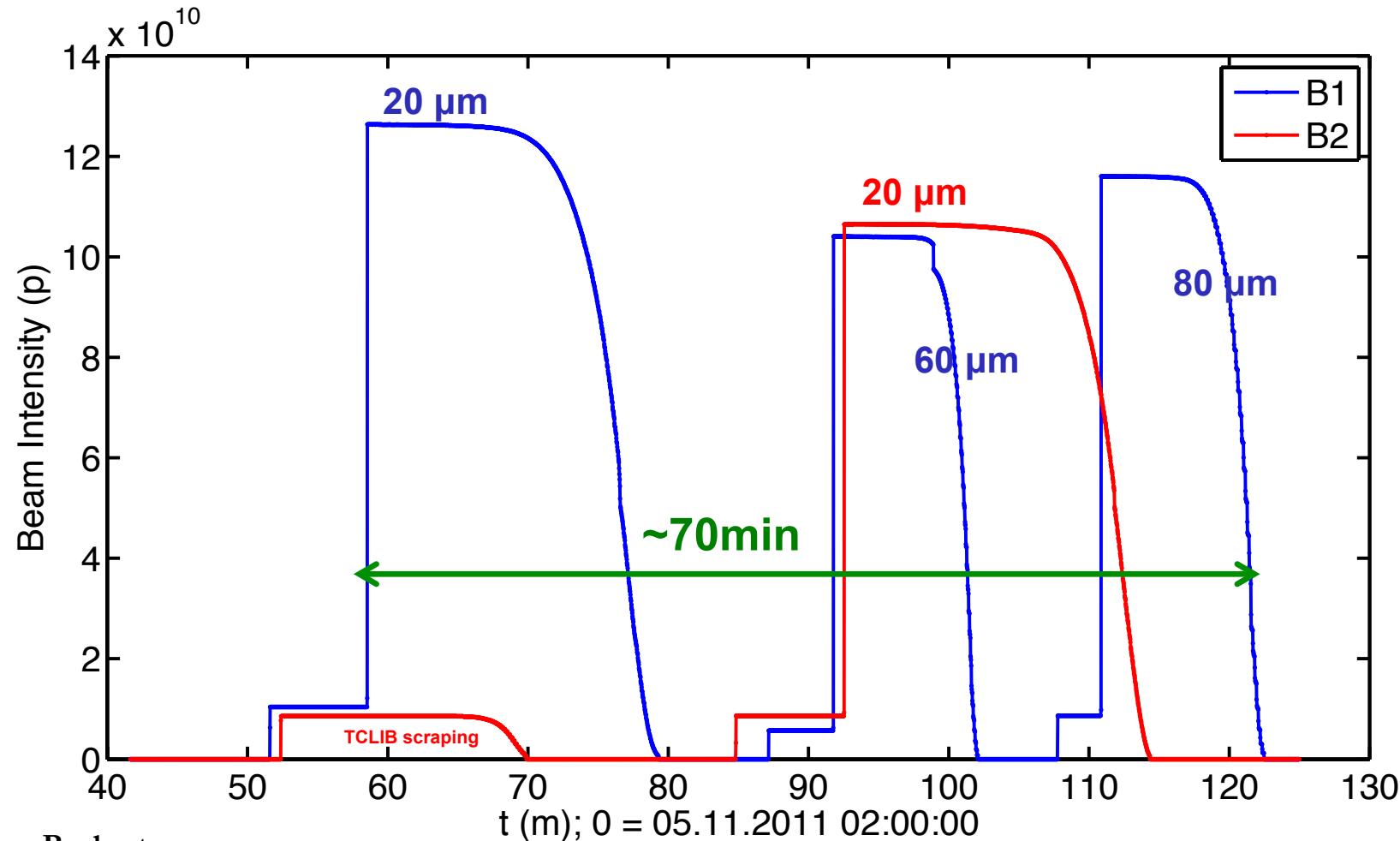
R. Assmann, R. Bruce, M. Cauchi,
D. Deboy, L. Lari, S. Redaelli, A. Rossi,
G. Valentino, D. Wollmann



What we did:



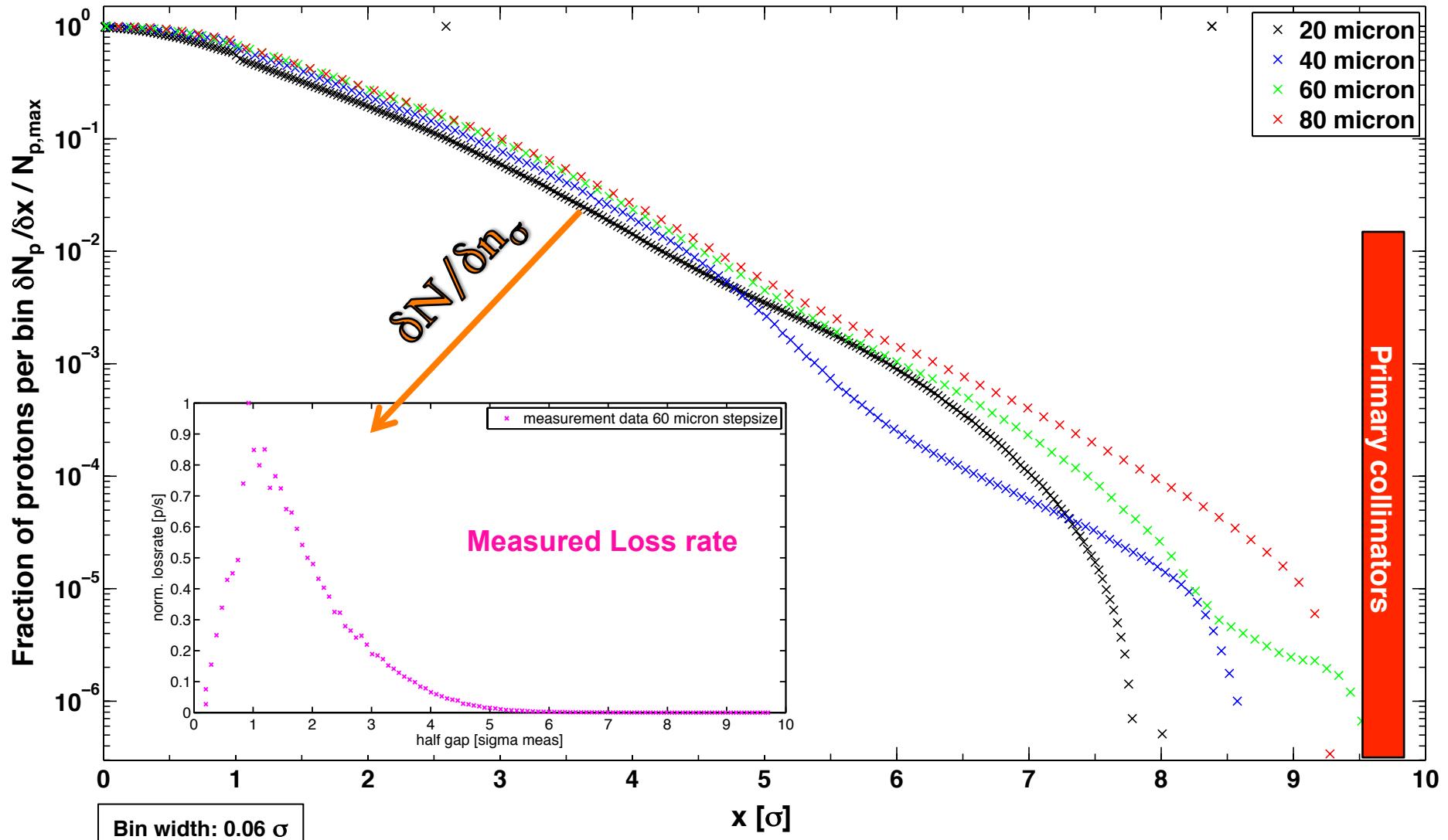
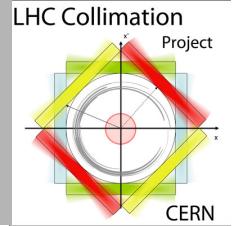
- 4 full scrapings with TCPs in IR7 (horizontal plane)
- Different step sizes





Beam shape at 450 GeV

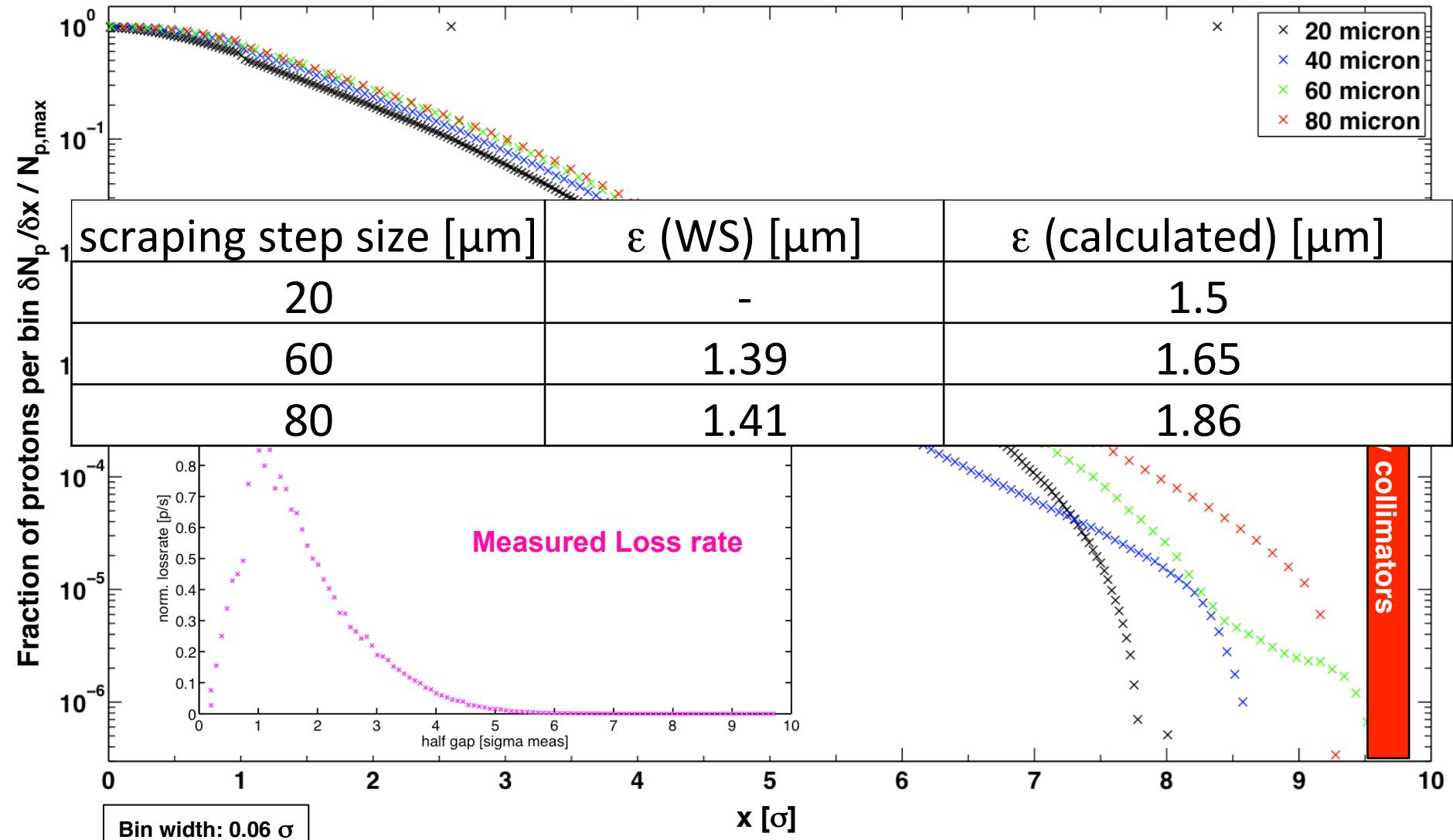
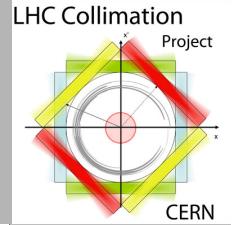
(horizontal plane, real σ , different step sizes)





Beam shape at 450 GeV

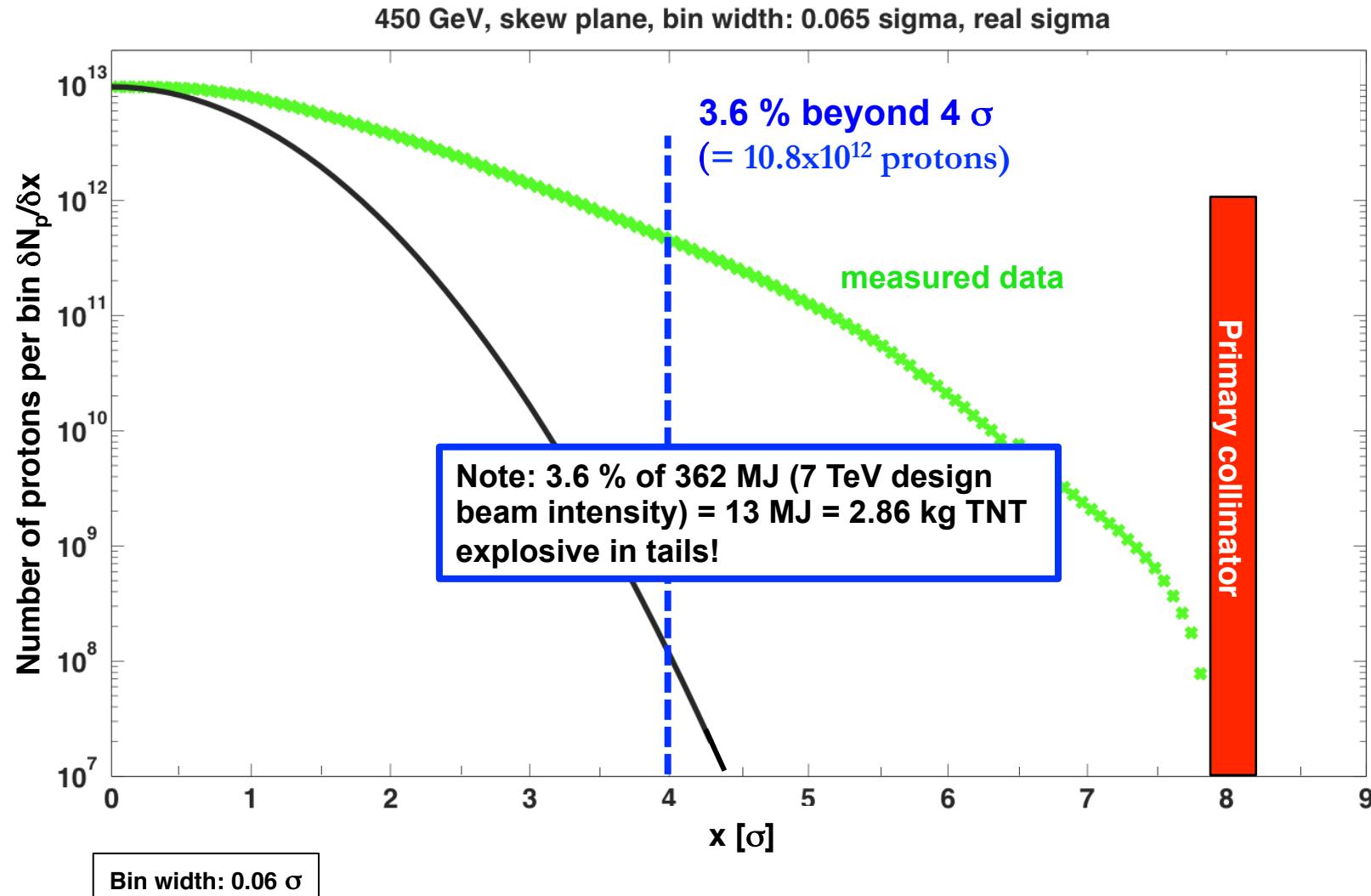
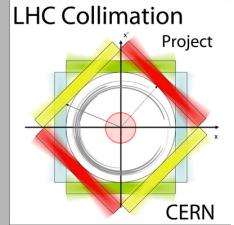
(horizontal plane, real σ , different step sizes)

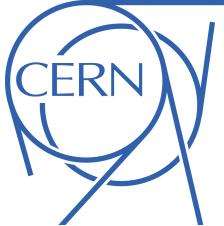




Highly Populated Beam Tails

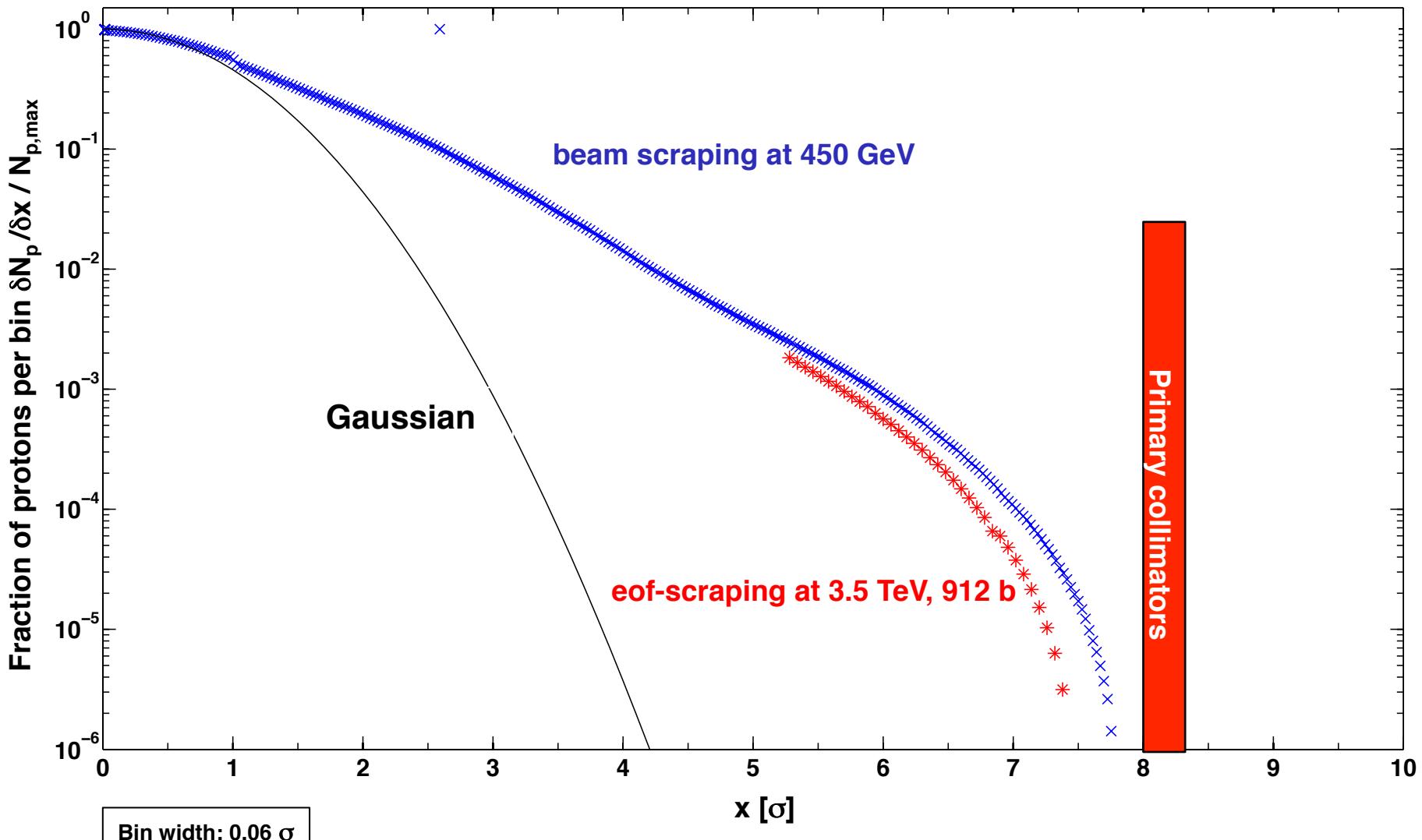
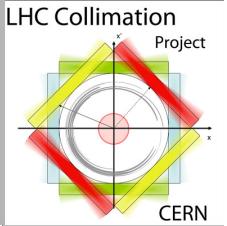
(skew plane, 450 GeV, total intensity 3×10^{14} p, real σ , $\gamma\epsilon = 1.4$ mm)





Beam Scrapings @ 450 GeV and 3.5 TeV

Normalized, real σ





Beam Scraping in all planes

