Figure 11: (a) A comparison of the expected significance of a measurement x_s determined using analytic and Monte Carlo calculations. (b) A comparison of the shapes of the $-\log\mathcal{L}$ curves from several simulated experiments with $x_s = 30$ (solid curves) and an analytic expression (dashed curve).

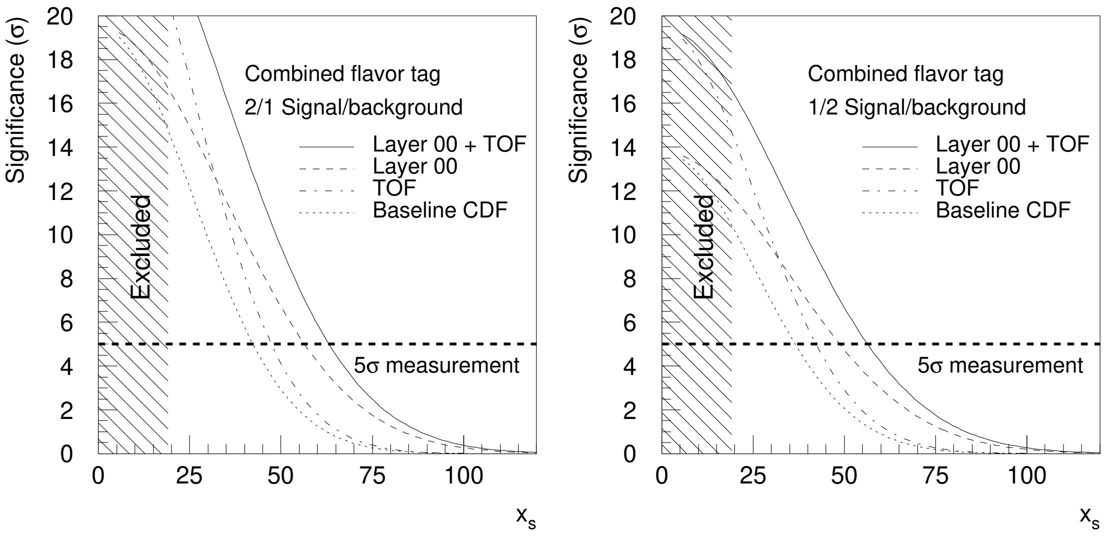

Figure 12: Effects of background levels on x_s reach in Run II for the CDF baseline configuration and with the beyond the baseline upgrades assuming $N(B_s^0) = 20,000$ and signal-to-background ratios of 2:1 (a) and 1:2 (b).