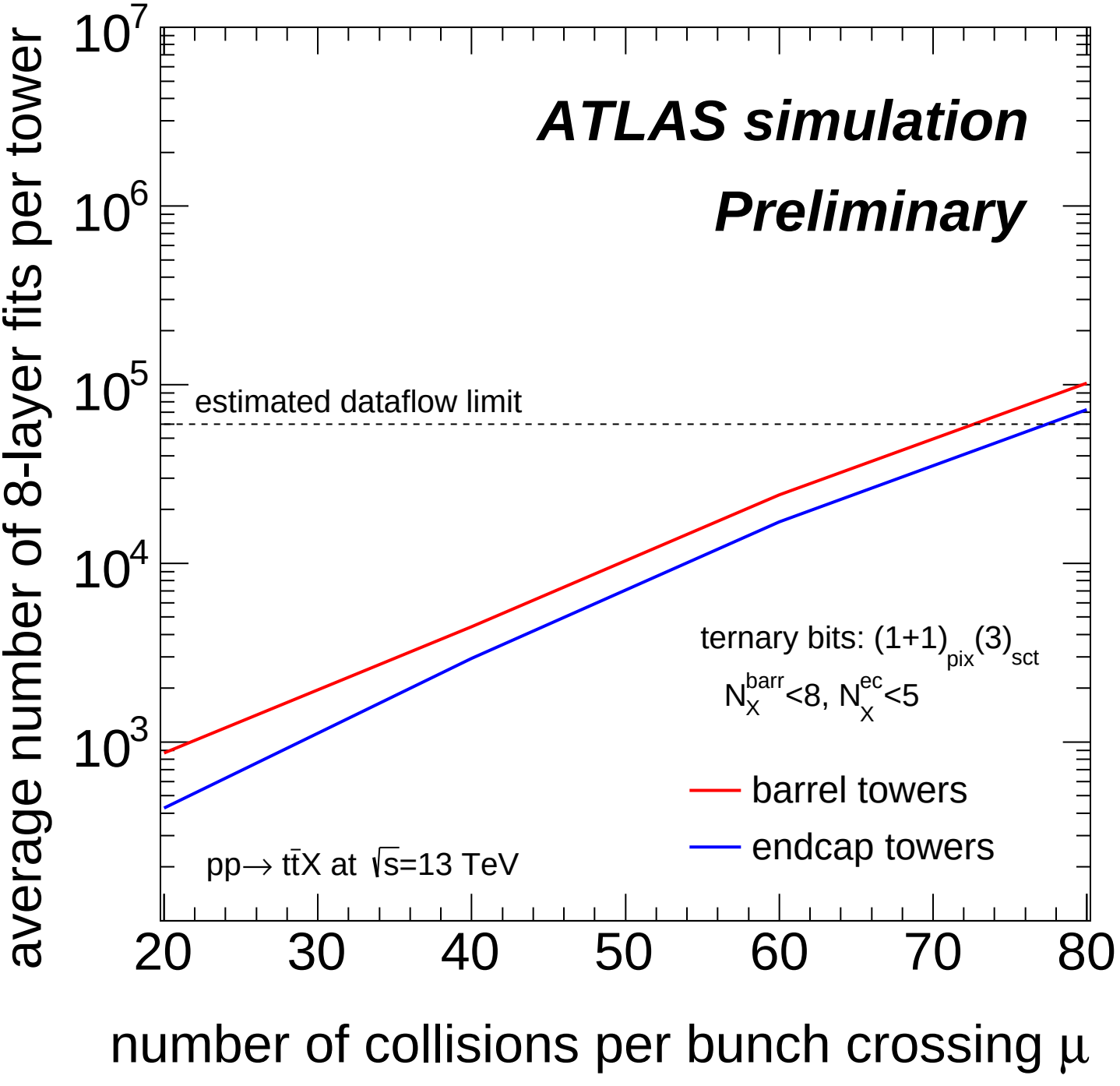
ATLAS simulation
Preliminary
estimated dataflow limit
ternary bits: $(1+1)_{pix}(3)_{sct}$
$N_X^{barr}<8$, $N_X^{ec}<5$
barrel towers
endcap towers
$pp \rightarrow t\bar{t}X$ at $\sqrt{s}$=13 TeV
average number of 8-layer fits per tower
number of collisions per bunch crossing μ
10^7
10^6
10^5
10^4
10^3
20
30
40
50
60
70
80