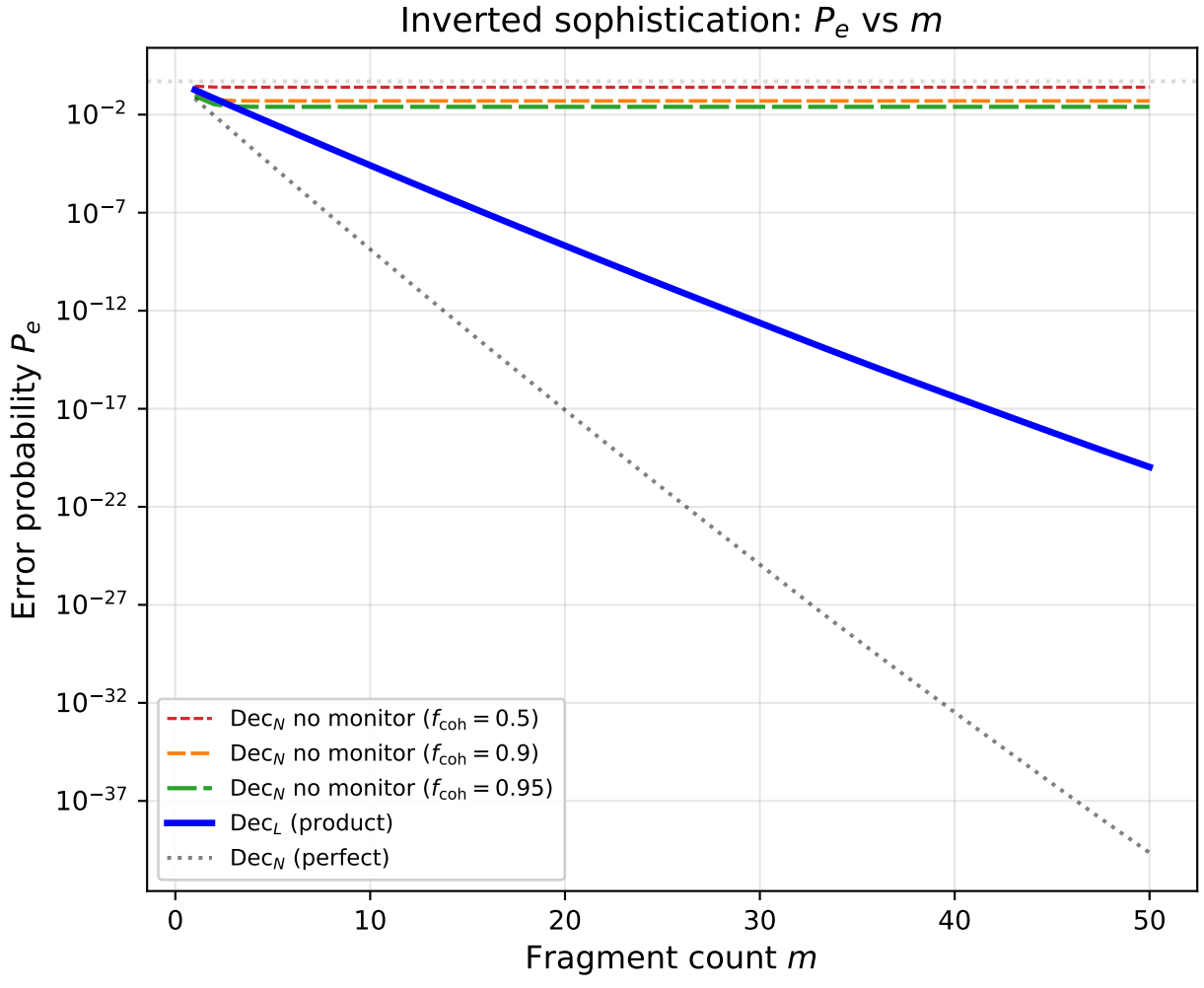
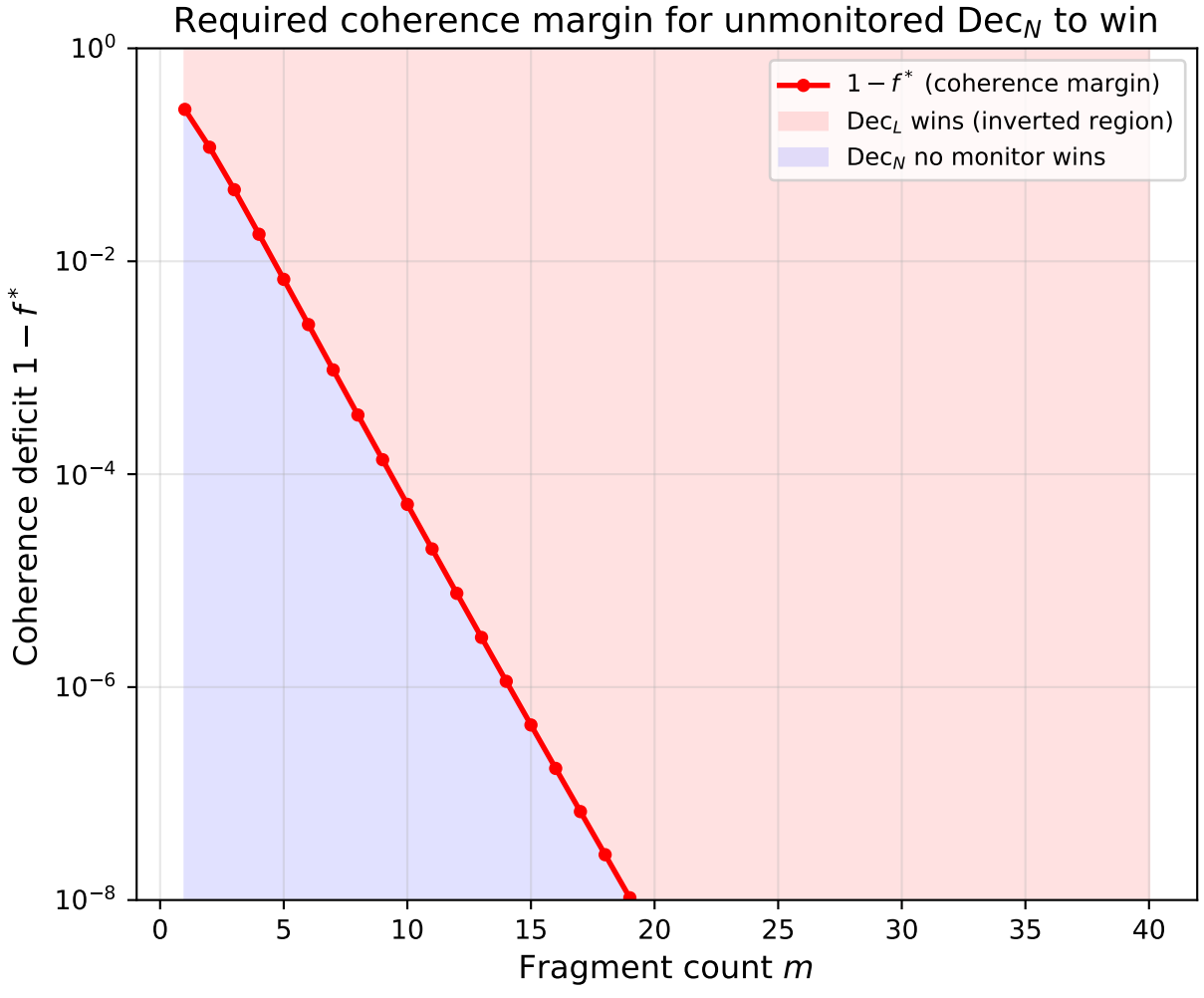

Inverted sophistication: P_e vs m
Error probability P_e
10^{-2}
10^{-7}
10^{-12}
10^{-17}
10^{-22}
10^{-27}
10^{-32}
10^{-37}
0
10
20
30
40
50
Fragment count m
Dec$_N$ no monitor ($f_{\text{coh}} = 0.5$)
Dec$_N$ no monitor ($f_{\text{coh}} = 0.9$)
Dec$_N$ no monitor ($f_{\text{coh}} = 0.95$)
Dec$_L$ (product)
Dec$_N$ (perfect)


Required coherence margin for unmonitored Dec$_N$ to win
Coherence deficit $1 - f^*$
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
0
5
10
15
20
25
30
35
40
Fragment count m
$1 - f^*$ (coherence margin)
Dec$_L$ wins (inverted region)
Dec$_N$ no monitor wins