Prob. to Improve the Approximate Solution b_{op}

$p = 1$ — Best-fit curve — $\alpha = 0.109$

$p = 2$ — Best-fit curve — $\alpha = 0.093$

$p = 3$ — Best-fit curve — $\alpha = 0.097$)

x-axis: Bit-length of N

y-axis: $P(|v_{new} - t|^2 < |b_{op} - t|^2)$