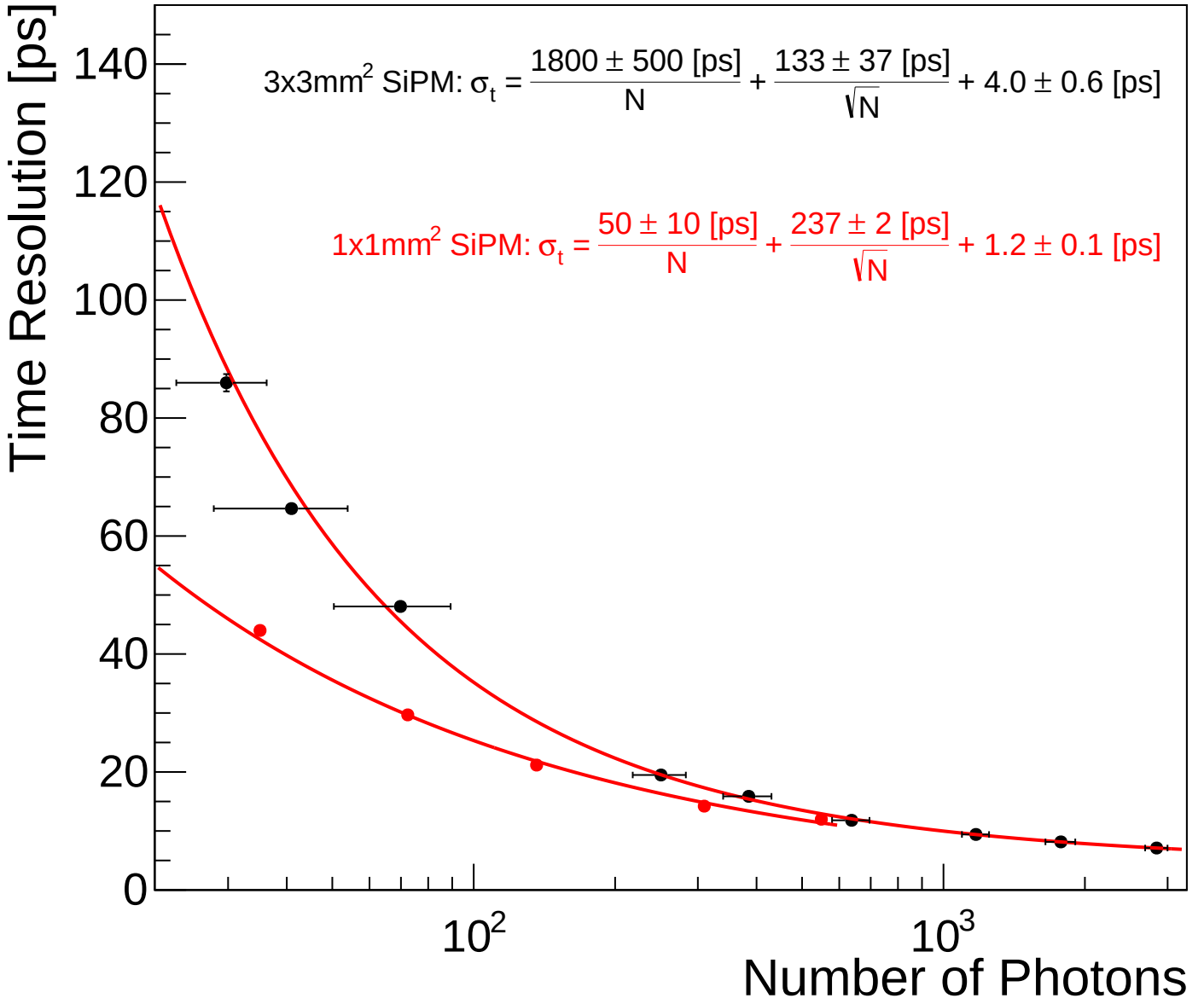
Time Resolution [ps]
140
120
100
80
60
40
20
0
10^2
10^3
Number of Photons
3x3mm^2 SiPM: $\sigma_t = \frac{1800 \pm 500\ [ps]}{N} + \frac{133 \pm 37\ [ps]}{\sqrt{N}} + 4.0 \pm 0.6\ [ps]$
1x1mm^2 SiPM: $\sigma_t = \frac{50 \pm 10\ [ps]}{N} + \frac{237 \pm 2\ [ps]}{\sqrt{N}} + 1.2 \pm 0.1\ [ps]$