

The plot shows the function $f(x) = 1000000 \cdot \exp(-x^2)$ for $x \in [0, 4000]$. The y-axis represents the function value, ranging from 0 to 1.0. The x-axis ranges from 0 to 4000. The Analytical result (blue line with markers) and the Empirical result (dark blue line) are plotted. Both curves start at $(0, 1.0)$ and decay rapidly towards zero as x increases. The Empirical curve is slightly lower than the Analytical curve for $x > 0$.

