First interaction sampled depth x distribution: MC vs expected

Legend:
- Accepted depths: $x < \lambda$
- Truncated exponential pdf: $\frac{1}{\lambda} \frac{e^{-x/\lambda}}{1 - e^{-L/\lambda}}$
- $L = \lambda = 571\,\mathrm{cm}, N = 200000$

Y-axis: Probability density (×10^{-3})

X-axis: First interaction depth x [cm]