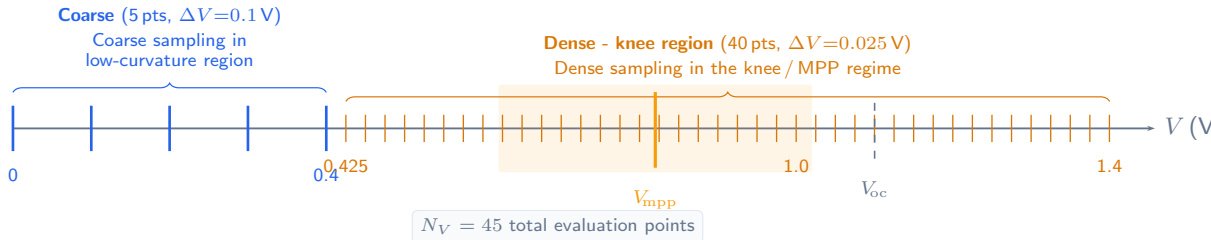


(a) Non-uniform voltage grid design



(b) Weighted error definition

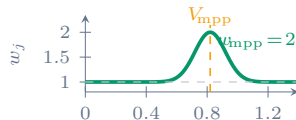
Grid-spacing weights: $\Delta V_j = V_{j+1} - V_j$ (forward diff.; last point repeated)

Gaussian MPP emphasis ($w_{mpp}=2.0$, $\sigma_w=0.1$ V):

$$w_j = 1 + (w_{mpp} - 1) \exp\left(-\frac{(V_j - V_{mpp})^2}{2\sigma_w^2}\right)$$

ΔV -weighted curve loss:

$$\mathcal{L}_{\text{curve}} = \frac{\sum_{j=1}^{N_V} \Delta V_j w_j (\hat{J}_j - J_j)^2}{\sum_{j=1}^{N_V} \Delta V_j w_j}$$



Takeaway: Resolution and weighting are intentionally concentrated where device-performance sensitivity is highest.