$\ell = 0, g_{\mathcal{K}} = 0.02$

Legend:
- $a_{\mathcal{K}} = 1, N = 100$
- $a_{\mathcal{K}} = 1, N = 200$
- $a_{\mathcal{K}} = 1, N = 300$
- $a_{\mathcal{K}} = 1, N = 400$
- $a_{\mathcal{K}} = 1, N = 500$
- $a_{\mathcal{K}} = 2, N = 100$
- $a_{\mathcal{K}} = 2, N = 200$
- $a_{\mathcal{K}} = 2, N = 300$
- $a_{\mathcal{K}} = 2, N = 400$
- $a_{\mathcal{K}} = 2, N = 500$
- $a_{\mathcal{K}} = 5, N = 100$
- $a_{\mathcal{K}} = 5, N = 200$
- $a_{\mathcal{K}} = 5, N = 300$
- $a_{\mathcal{K}} = 5, N = 400$
- $a_{\mathcal{K}} = 5, N = 500$
- $a_{\mathcal{K}} = 10, N = 100$
- $a_{\mathcal{K}} = 10, N = 200$
- $a_{\mathcal{K}} = 10, N = 300$
- $a_{\mathcal{K}} = 10, N = 400$
- $a_{\mathcal{K}} = 10, N = 500$
- $a_{\mathcal{K}} = 20, N = 100$
- $a_{\mathcal{K}} = 20, N = 200$
- $a_{\mathcal{K}} = 20, N = 300$
- $a_{\mathcal{K}} = 20, N = 400$
- $a_{\mathcal{K}} = 20, N = 500$
- $\Sigma(a_{\mathcal{K}} = 1)$
- $\Sigma(a_{\mathcal{K}} = 2)$
- $\Sigma(a_{\mathcal{K}} = 5)$
- $\Sigma(a_{\mathcal{K}} = 10)$
- $\Sigma(a_{\mathcal{K}} = 20)$
- $g_{\mathcal{K}} = 0$

X-axis: Momentum $(k/\mathcal{K})$

Y-axis: Eigenenergy $E(k)/E_{\mathrm{UV}}$