Figure J.5 (a) Log-determinants of growing NTK submatrices of size $m = nd$ ($d = 10$) from a ResNet50 (evaluated at 32-bit precision), computed using MEMDET in 64-bit precision. The matrix size grows up to $m = 100,000$. Each curve corresponds to a different number of blocks n_b used in the MEMDET block LDL decomposition. The black curve ($n_b = 1$, overlaid by colored curves) corresponds to the conventional LDL decomposition where the entire matrix is loaded into memory. Colored curves correspond to increasing values of $n_b = 2^2, 2^3, 2^4, 2^5$, where MEMDET performs block-wise computation. (b) Relative error between each $n_b > 1$ curve and the exact LDL baseline ($n_b = 1$). All errors remain at the level of 10^{-14}, indicating that MEMDET's numerical behavior is stable and consistent with machine precision.