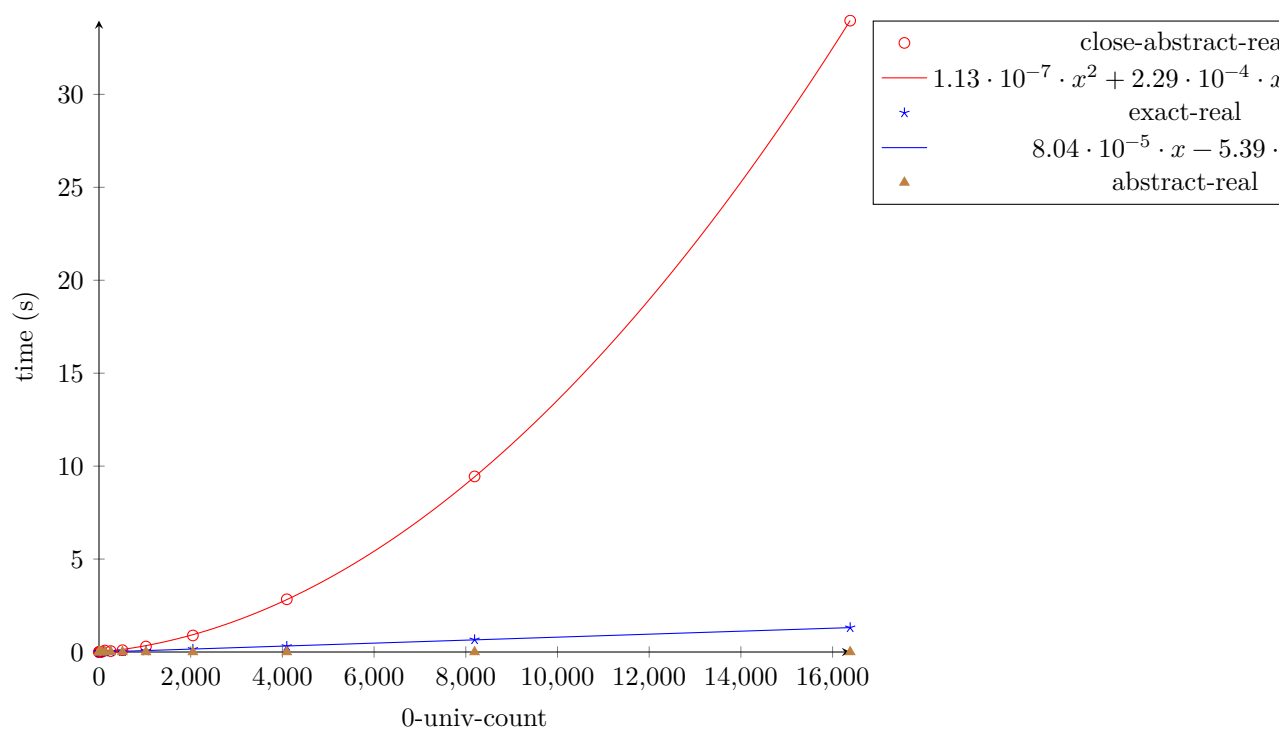Figure 1: timing-pattern

Figure 2: timing-n-polymorphic-universes param-1-n　0
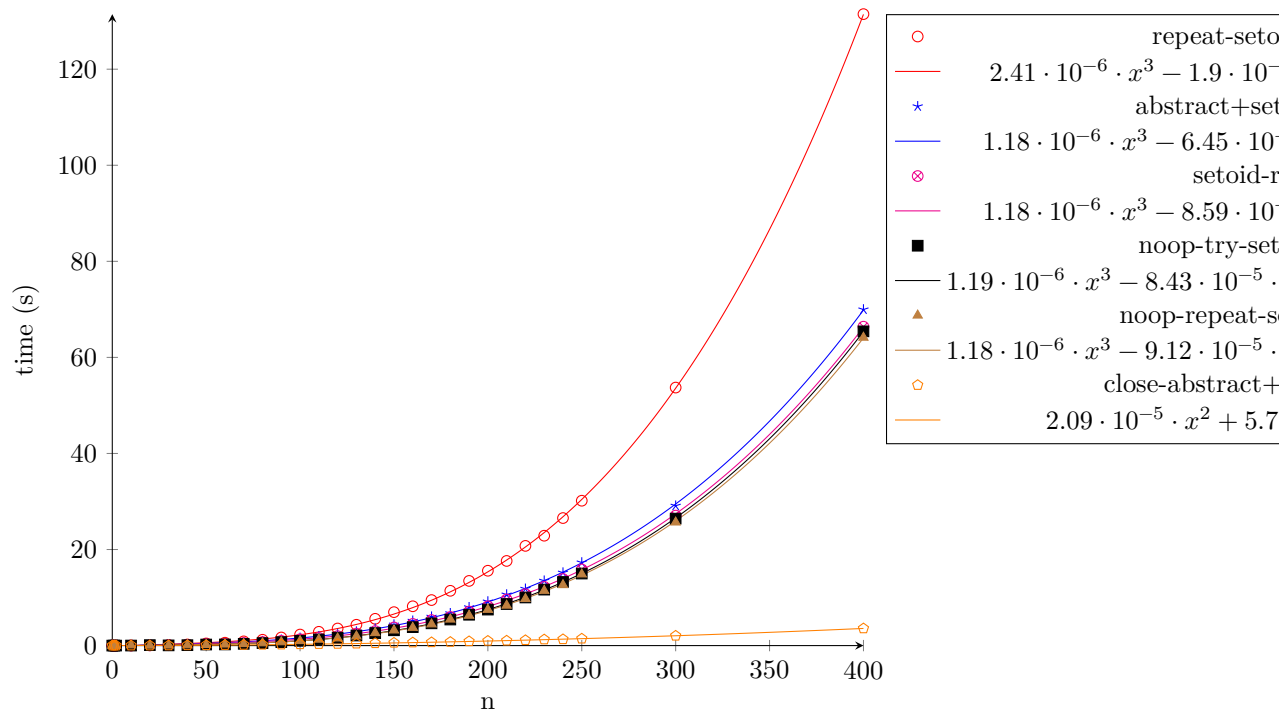
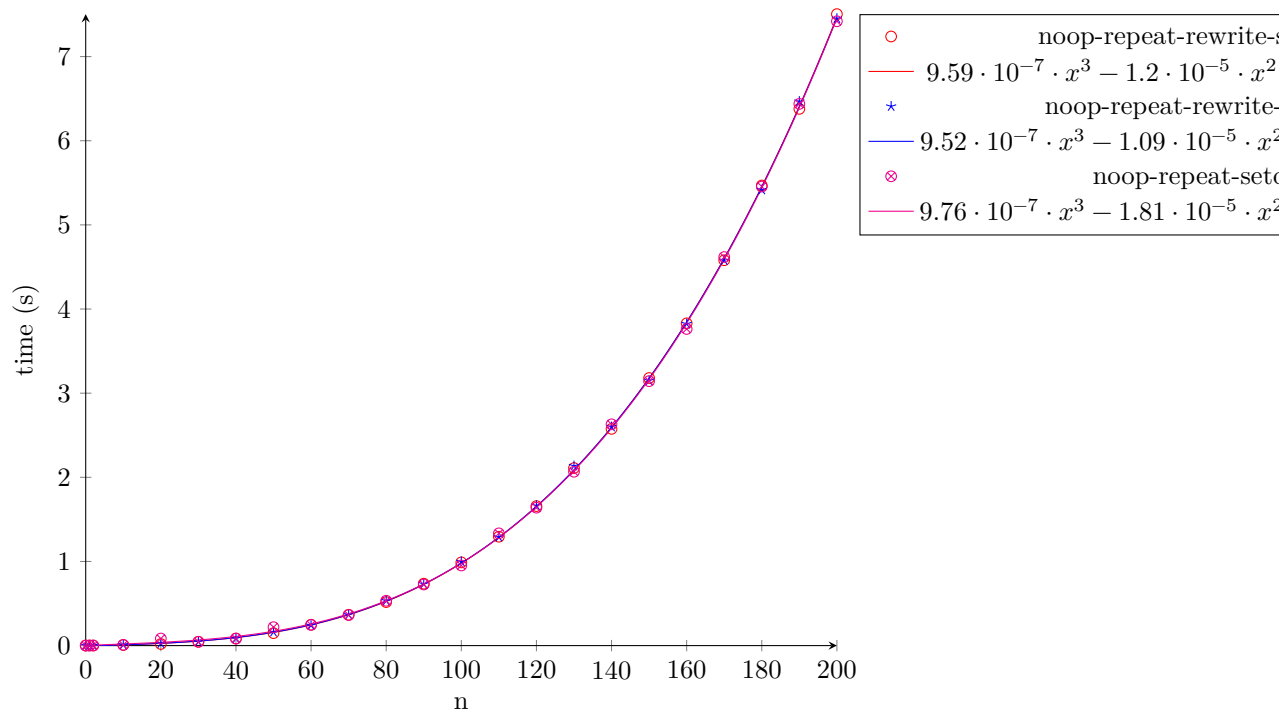Figure 3: timing-repeat-setoid-rewrite-under-binders

3

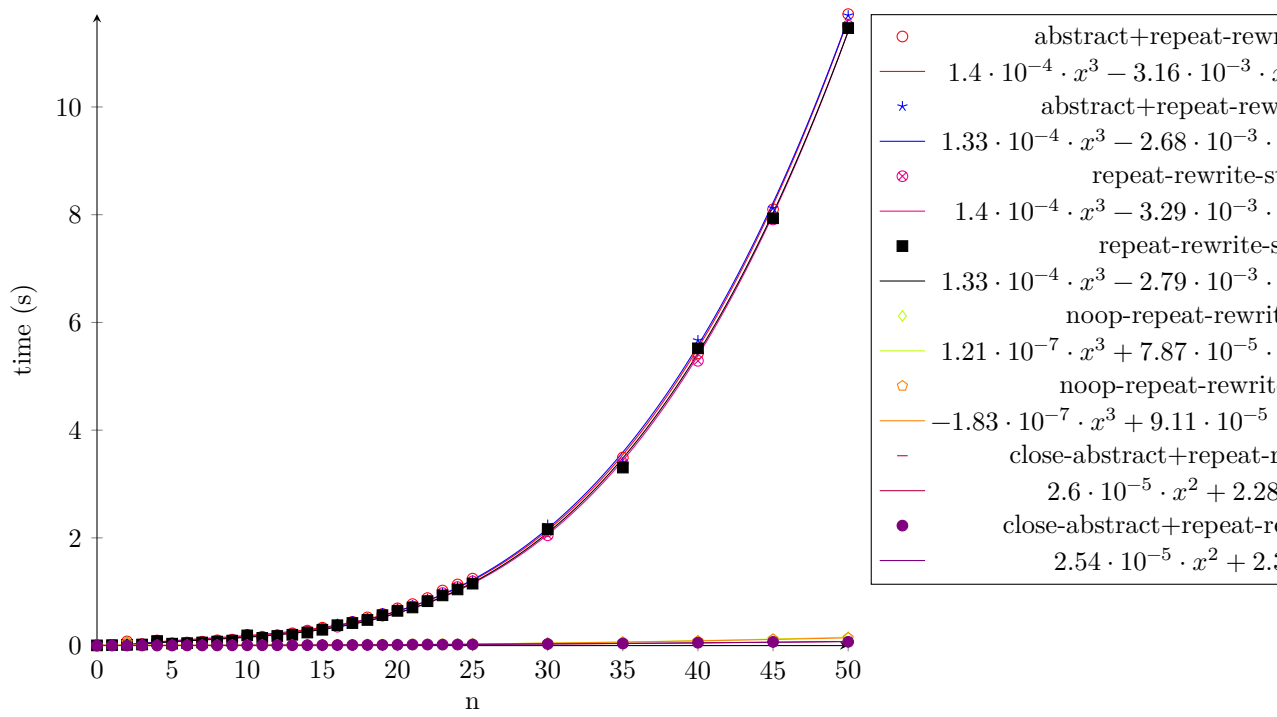Figure 4: timing-repeat-setoid-rewrite-under-binders-noop
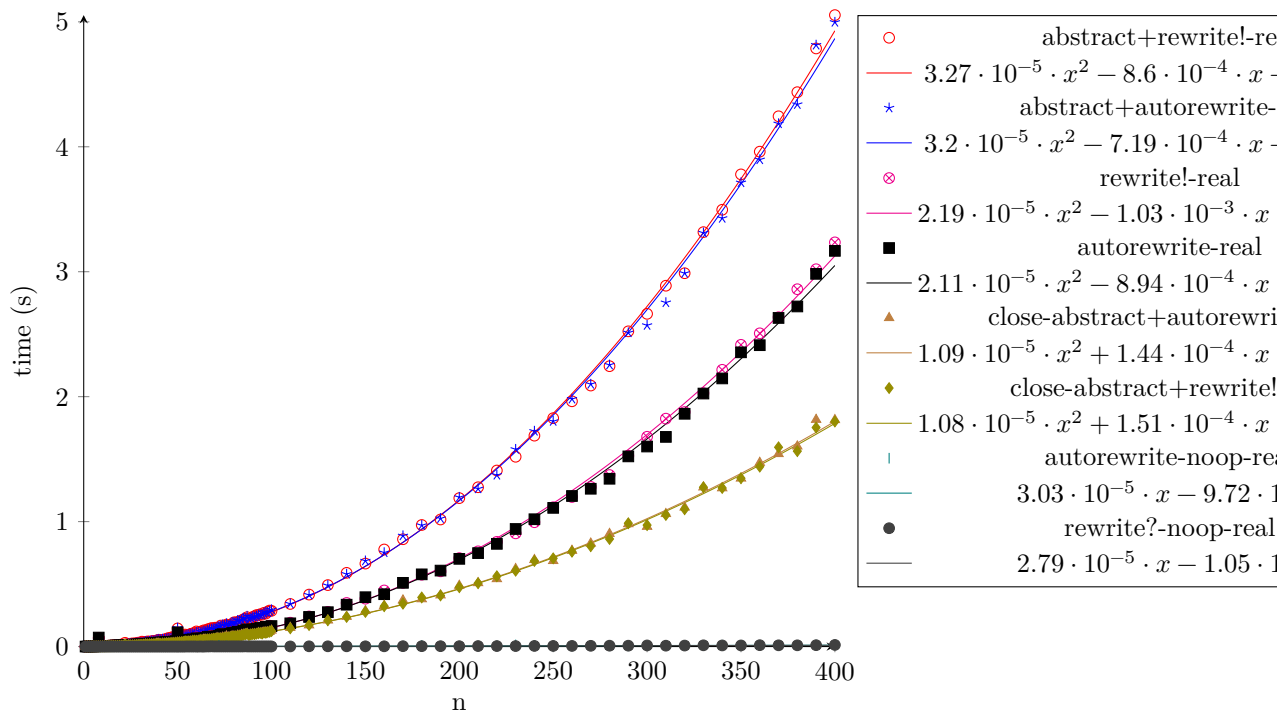
Figure 5: timing-rewrite-strat-under-binders
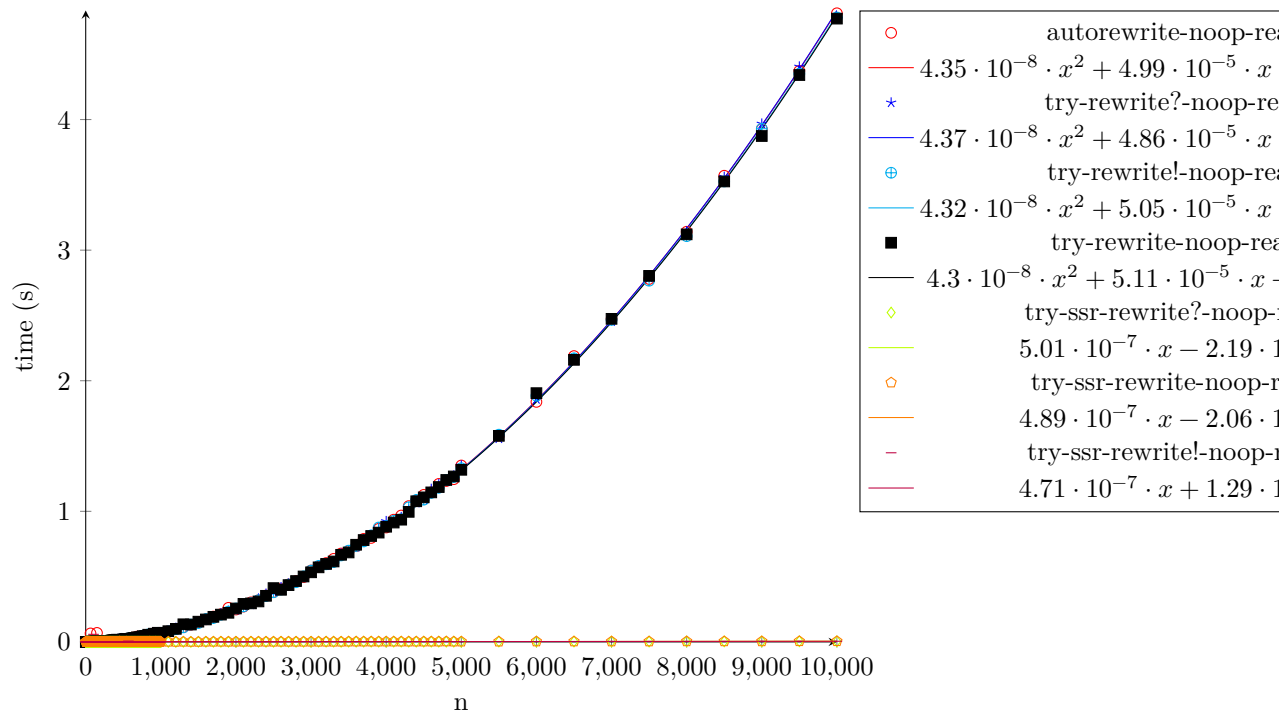
Figure 6: timing-rewrite-repeated-app-autorewrite

6

Figure 7: timing-rewrite-repeated-app-autorewrite-noop

The plot legend reads:

- ○ autorewrite-noop-re...
- $4.35 \cdot 10^{-8} \cdot x^2 + 4.99 \cdot 10^{-5} \cdot x$ ...
- ✶ try-rewrite?-noop-re...
- $4.37 \cdot 10^{-8} \cdot x^2 + 4.86 \cdot 10^{-5} \cdot x$ ...
- ⊕ try-rewrite!-noop-re...
- $4.32 \cdot 10^{-8} \cdot x^2 + 5.05 \cdot 10^{-5} \cdot x$ ...
- ■ try-rewrite-noop-re...
- $4.3 \cdot 10^{-8} \cdot x^2 + 5.11 \cdot 10^{-5} \cdot x$ ...
- ◇ try-ssr-rewrite?-noop-...
- $5.01 \cdot 10^{-7} \cdot x - 2.19 \cdot 1$ ...
- ⬠ try-ssr-rewrite-noop-...
- $4.89 \cdot 10^{-7} \cdot x - 2.06 \cdot 1$ ...
- – try-ssr-rewrite!-noop-...
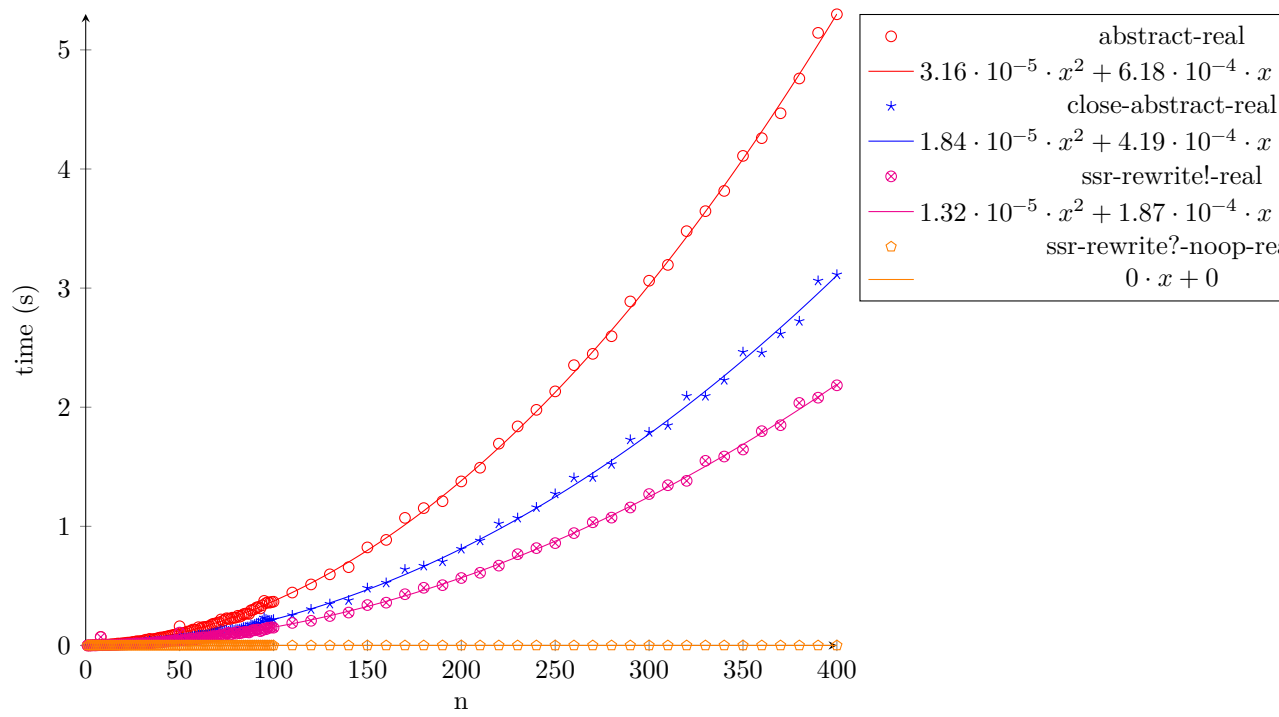- $4.71 \cdot 10^{-7} \cdot x + 1.29 \cdot 1$ ...

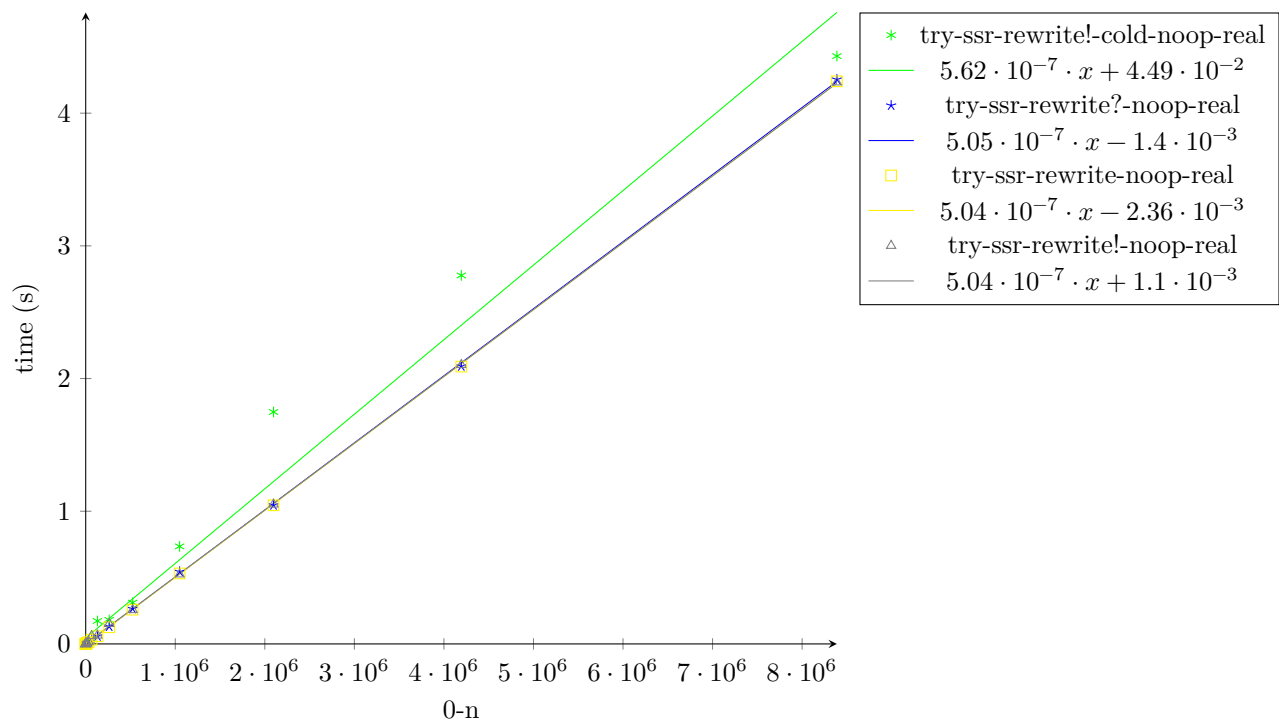Figure 8: timing-rewrite-repeated-app-ssrrewrite

8

Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1
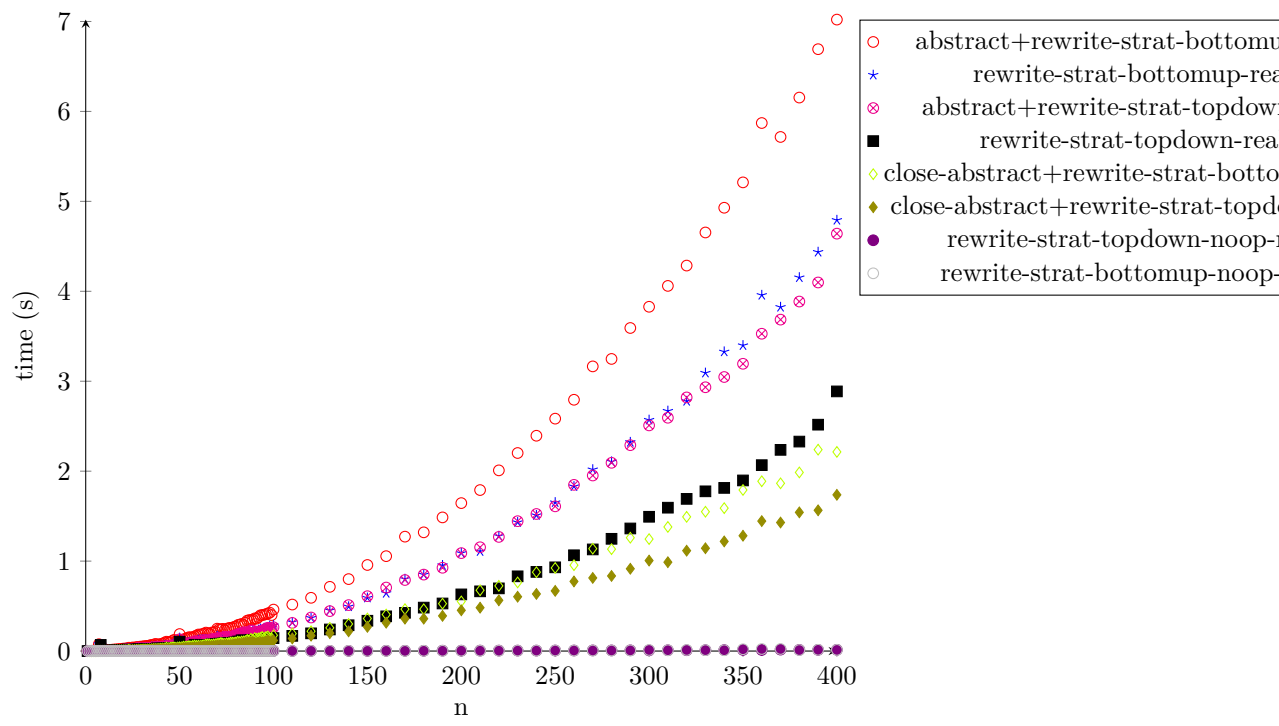
Figure 10: timing-rewrite-repeated-app-rewrite-strat
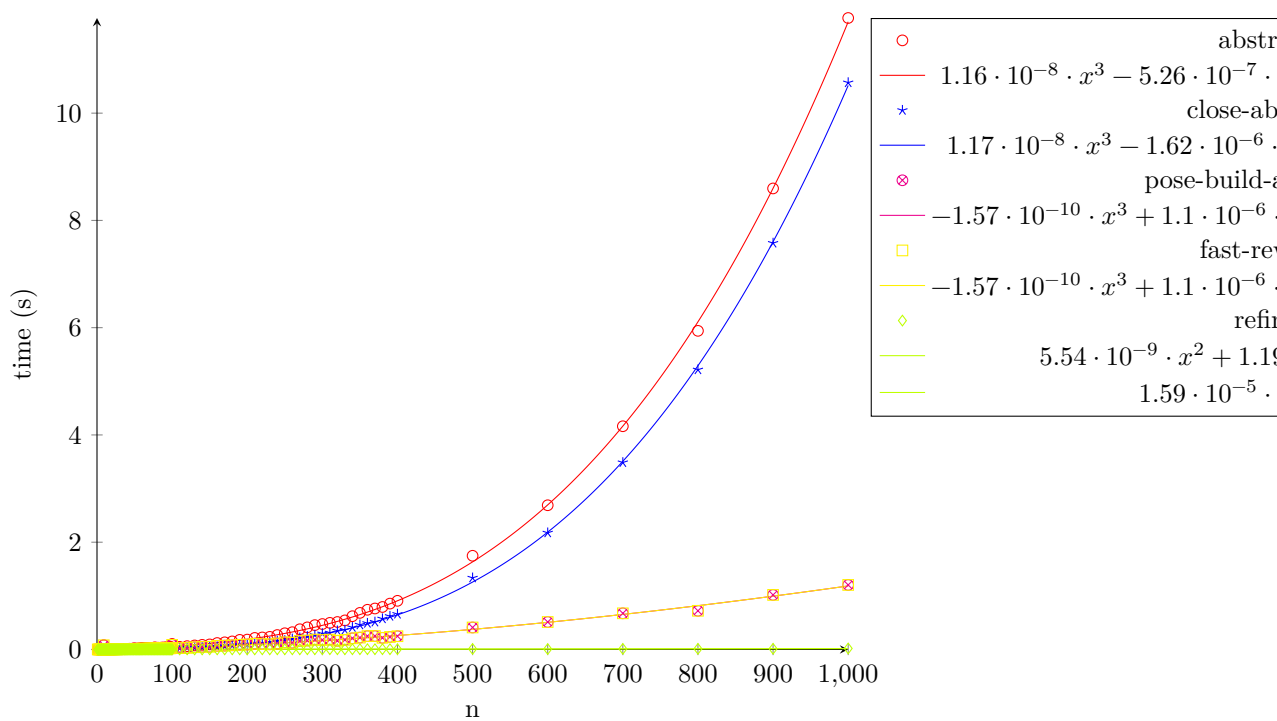
10

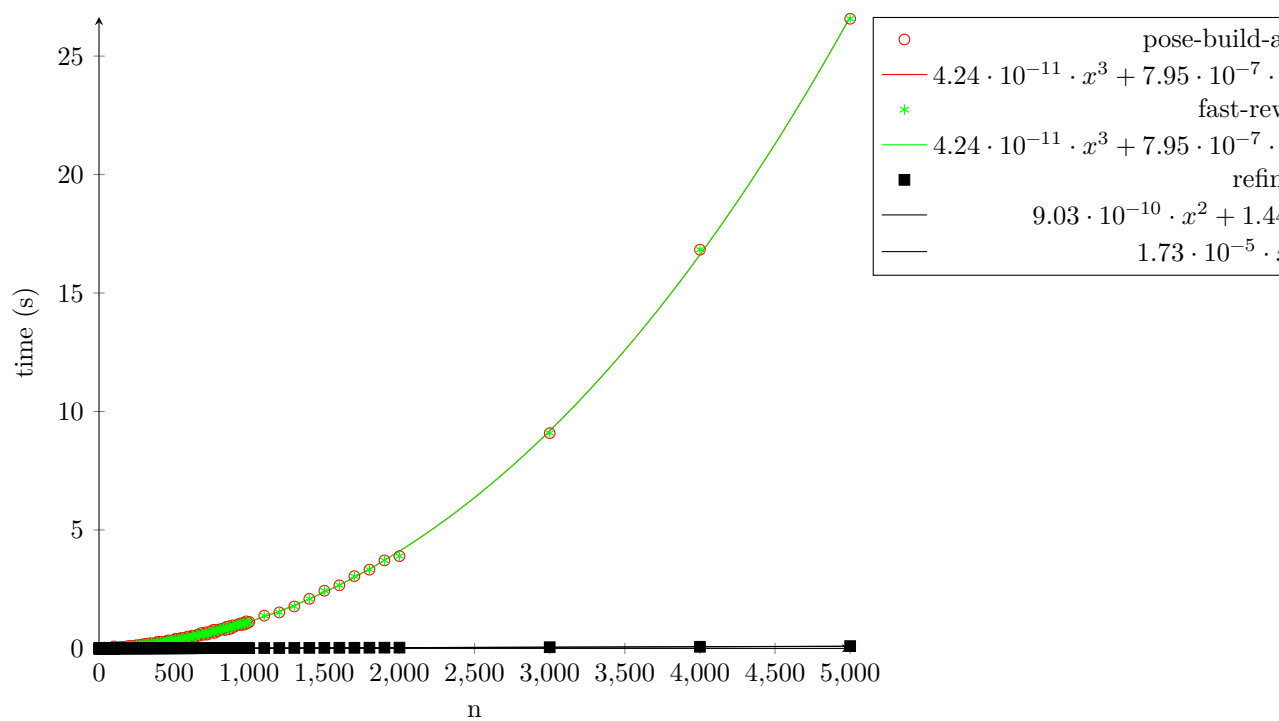Figure 11: timing-rewrite-repeated-app-fast-rewrite

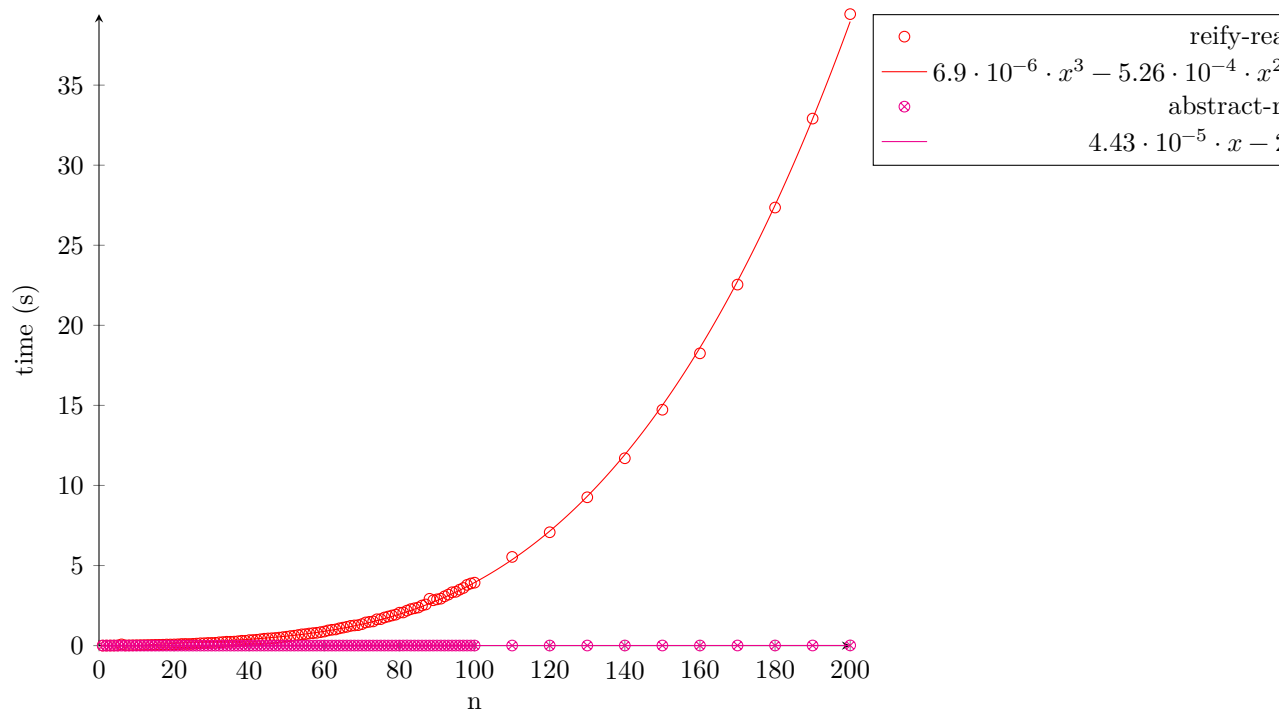Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract

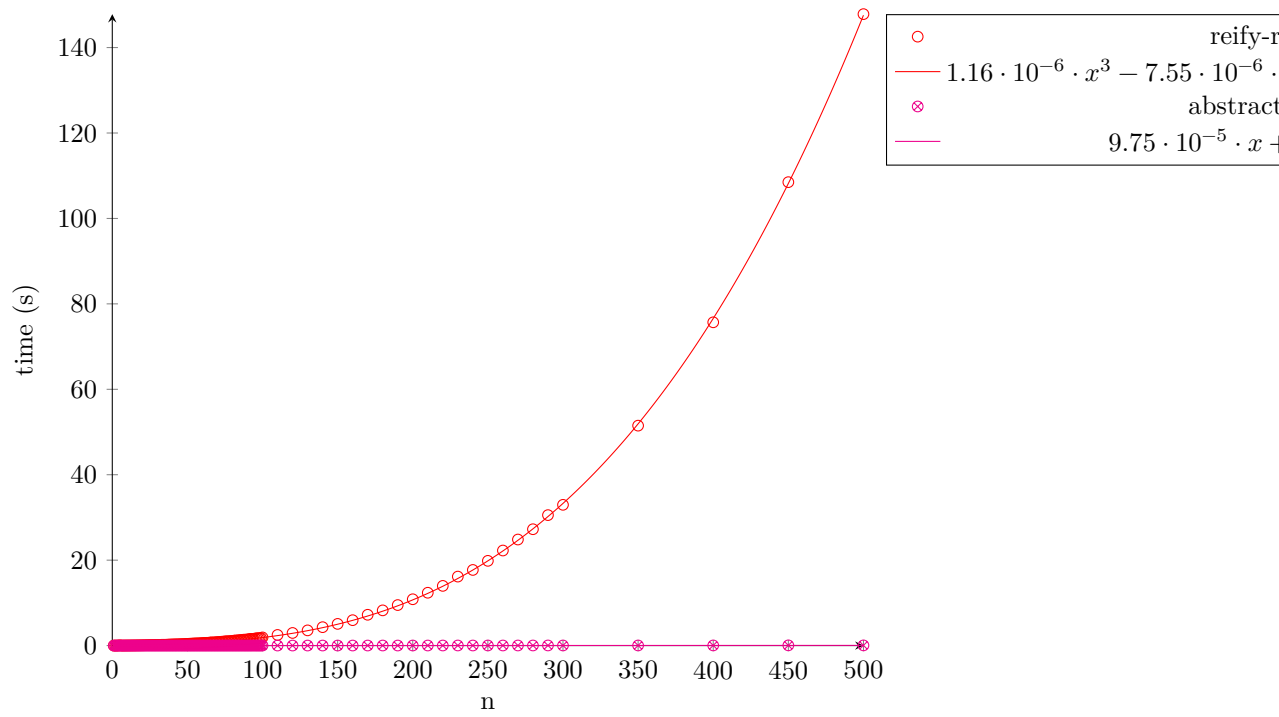Figure 13: timing-typeclass-reification-let-in-HOAS

13

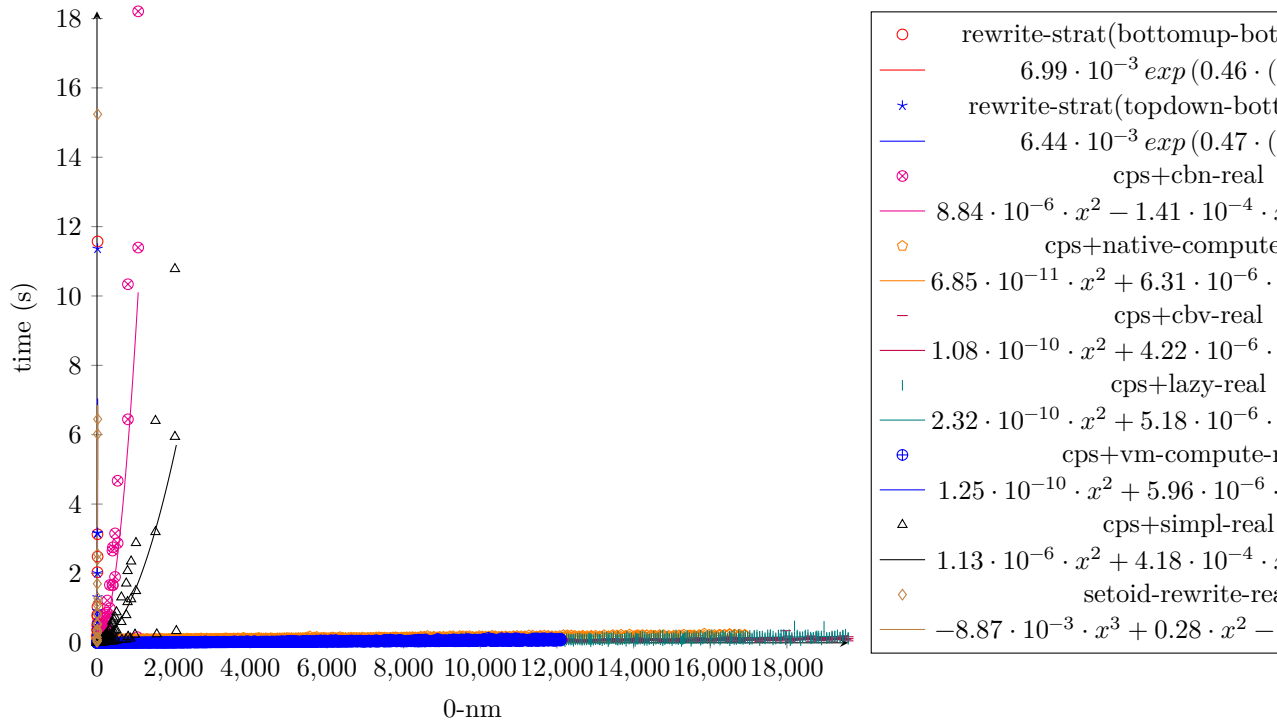Figure 14: timing-typeclass-reification-let-in-PHOAS

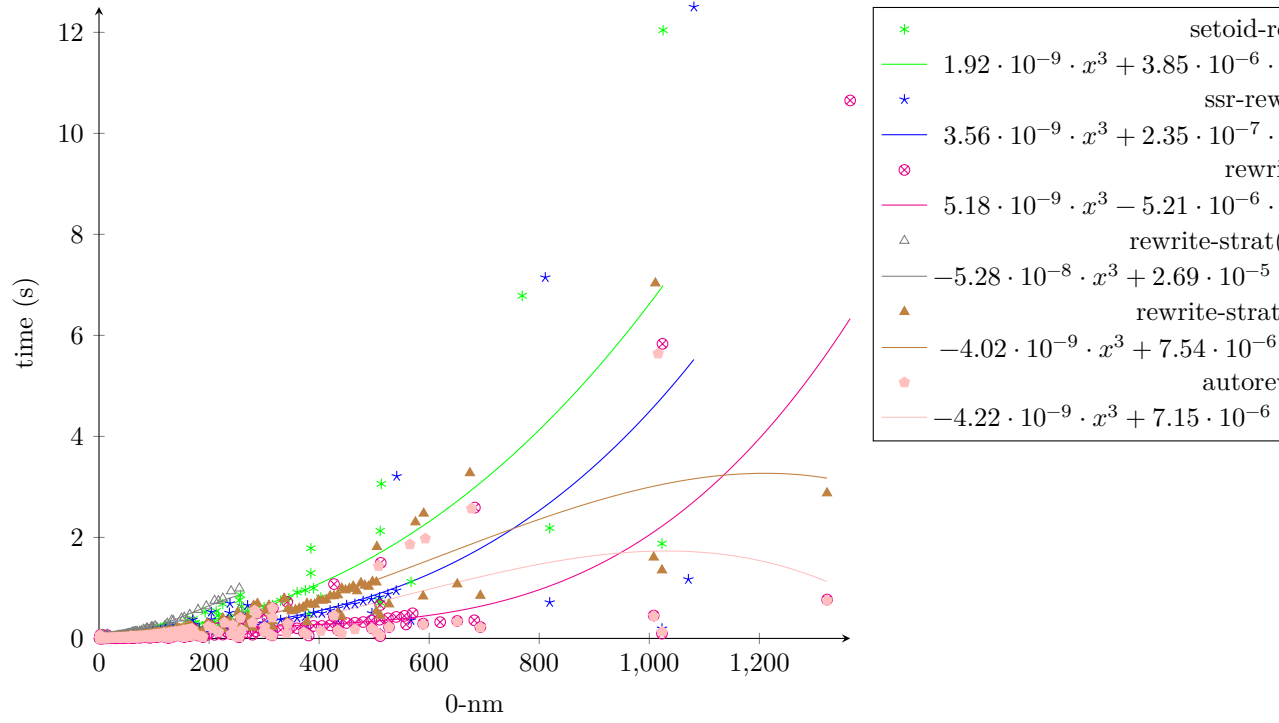Figure 15: timing-rewrite-lift-lets-map param-1-n 1, param-2-m 1

Figure 16: timing-rewrite-plus-0-tree param-1-n   0, param-2-m   1, param-3-input-size 5, param-4-output-size 3, param-5-num-rewrites 1
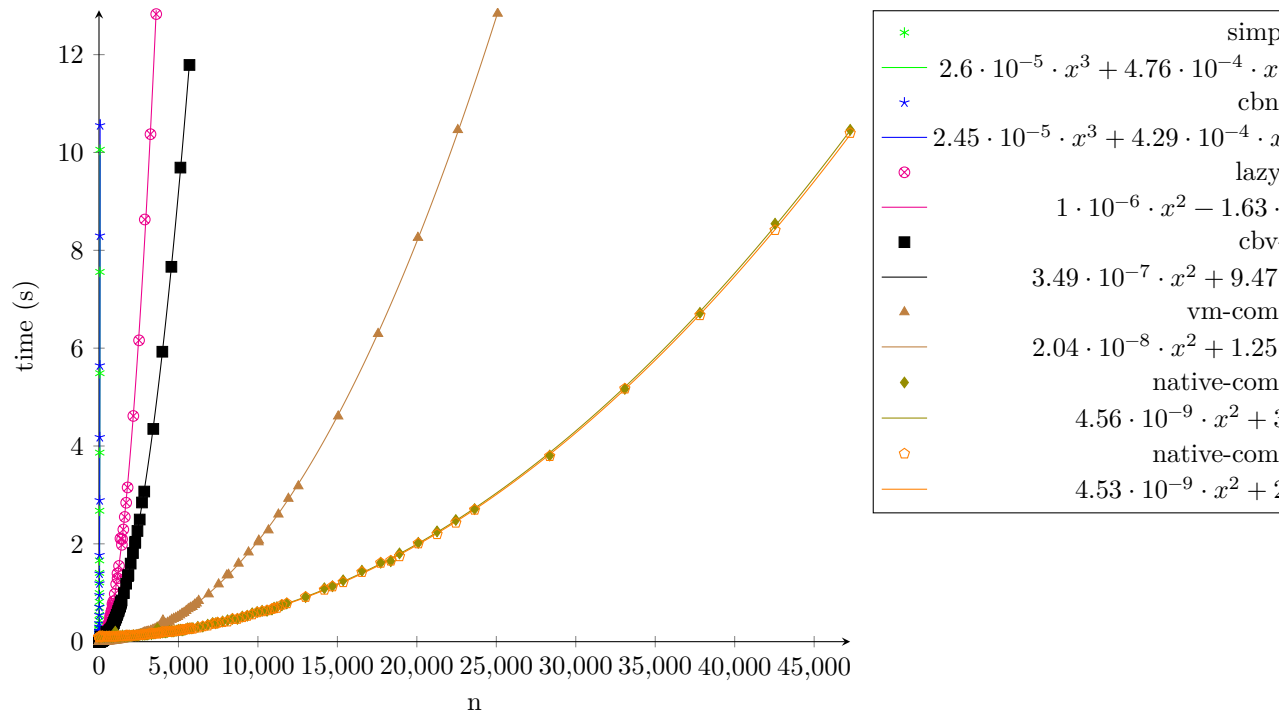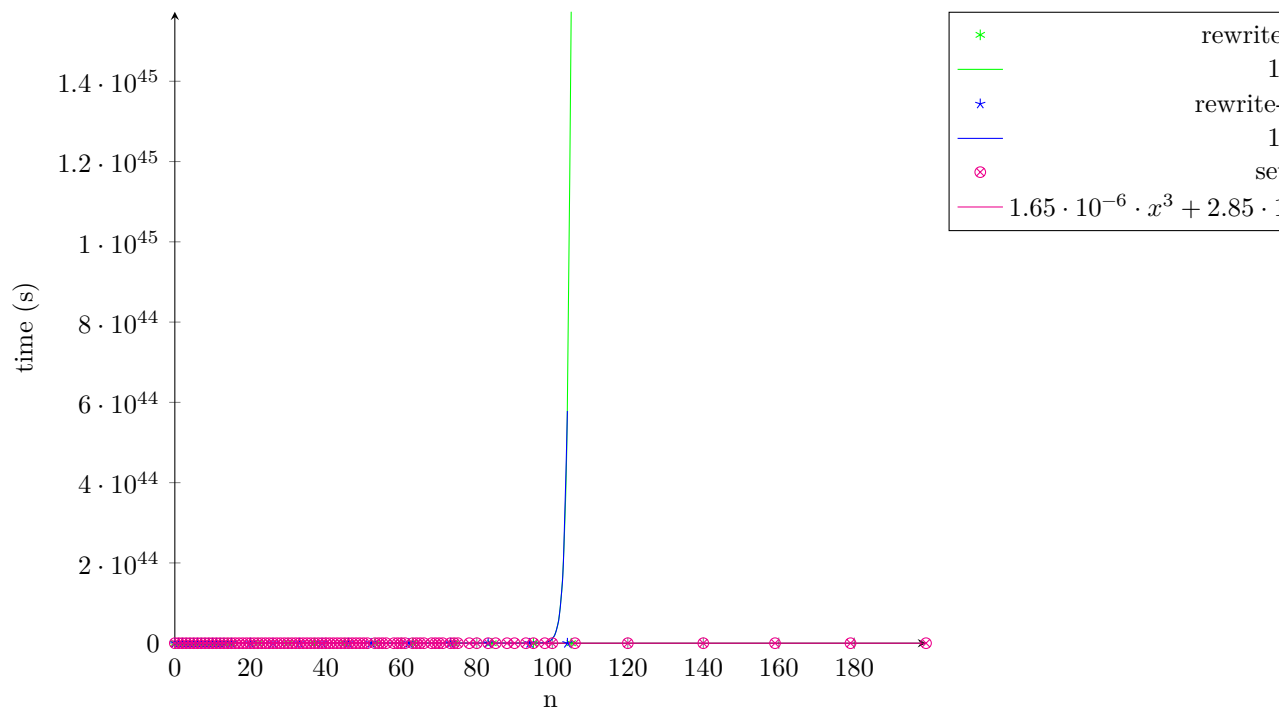
Figure 17: timing-sieve-of-eratosthenes

Figure 18: timing-rewrite-under-lets-plus-0