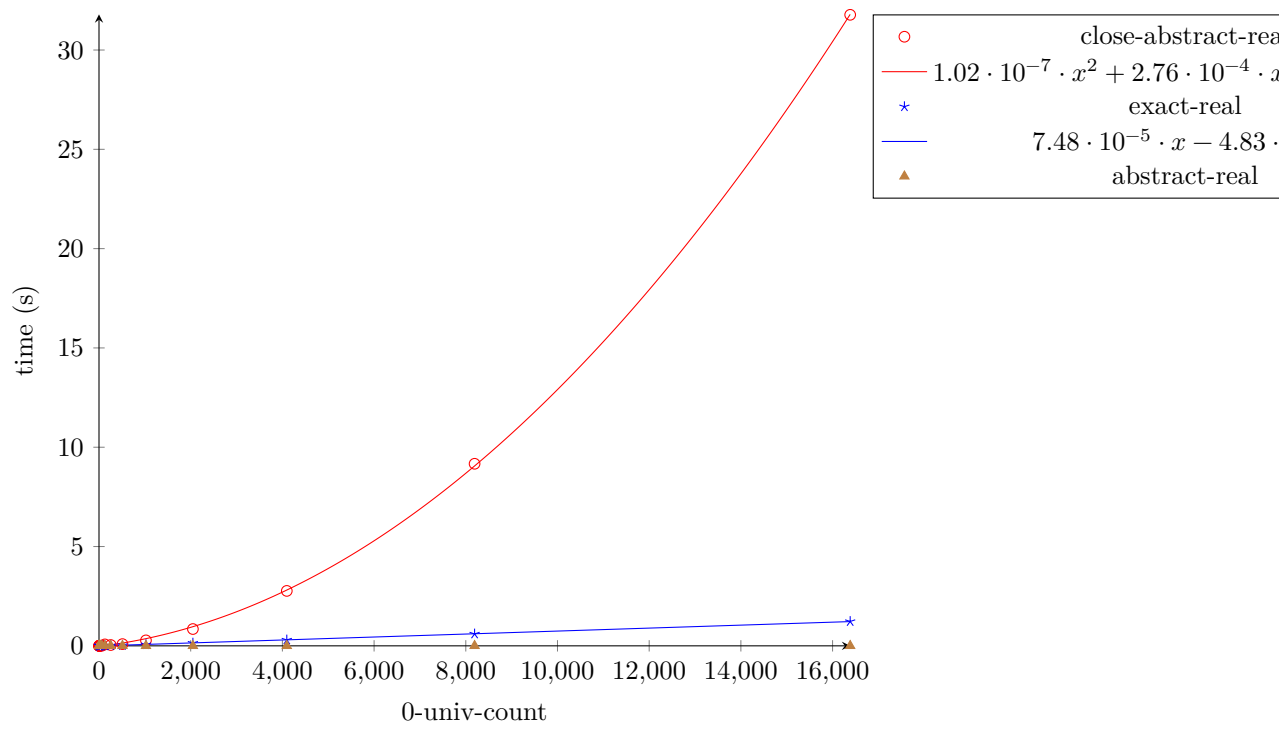Figure 1: timing-pattern

1

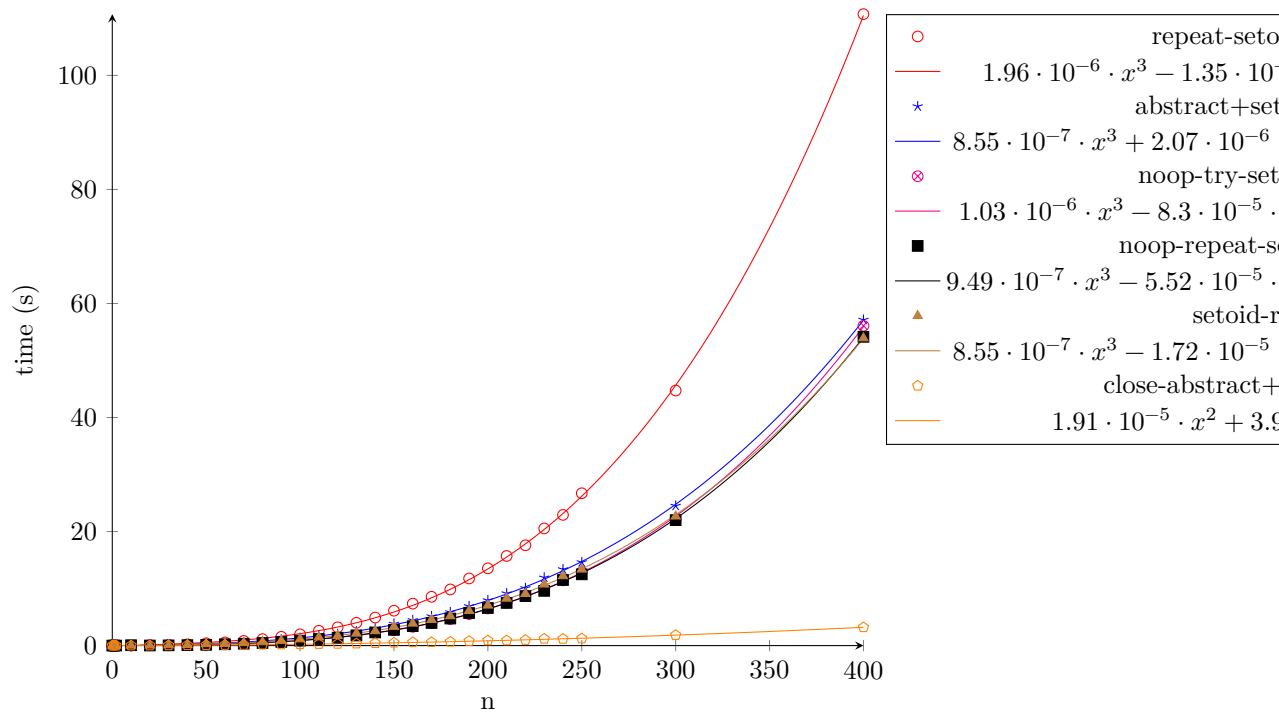Figure 2: timing-n-polymorphic-universes param-1-n 0

Figure 3: timing-repeat-setoid-rewrite-under-binders
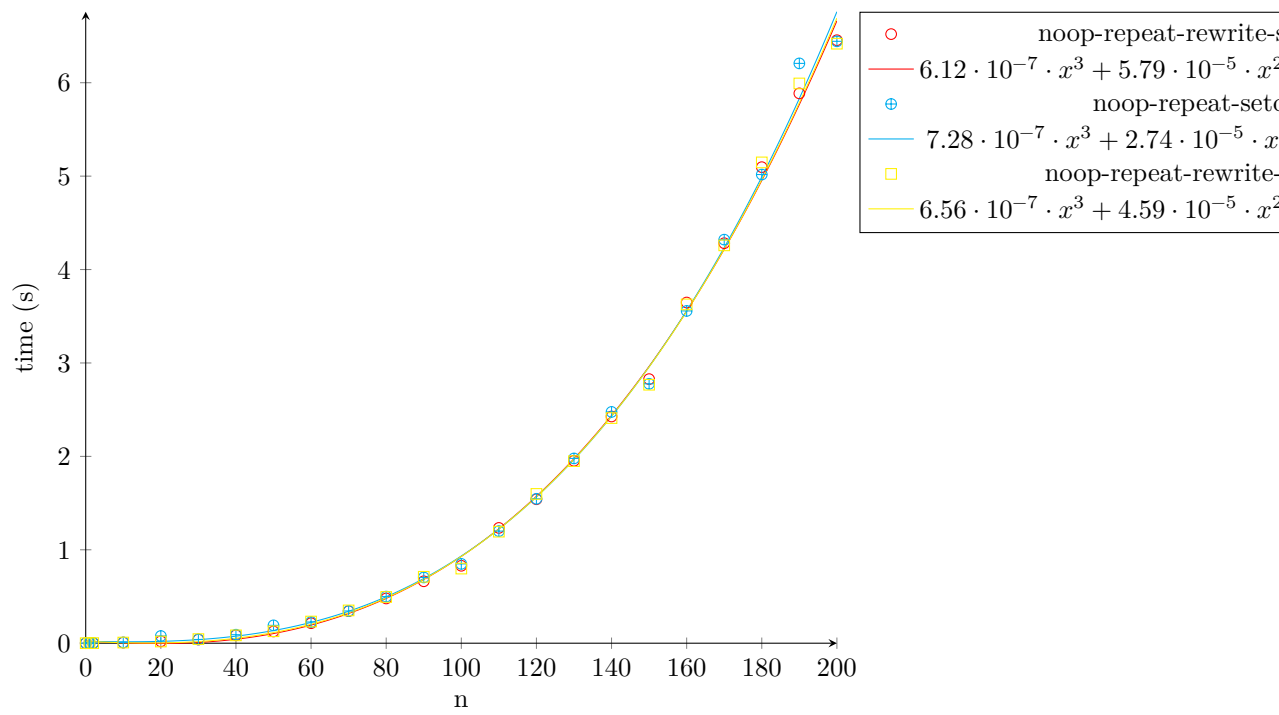
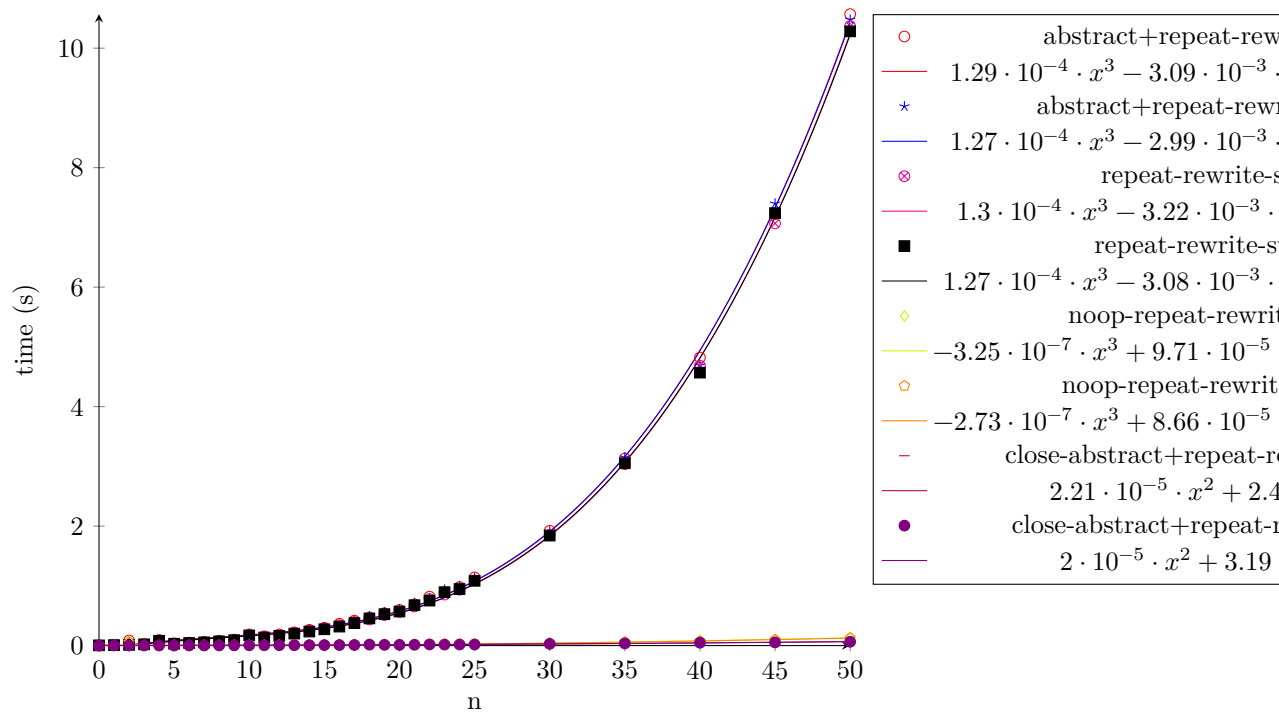Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

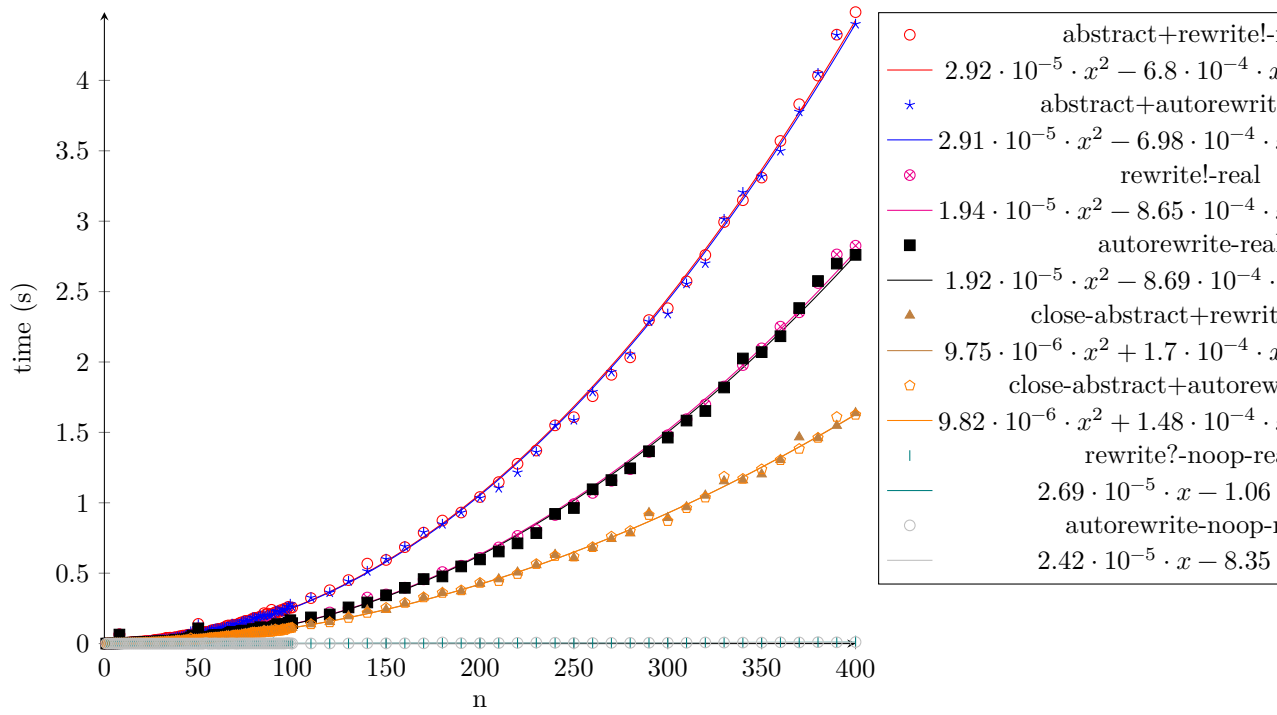Figure 5: timing-rewrite-strat-under-binders
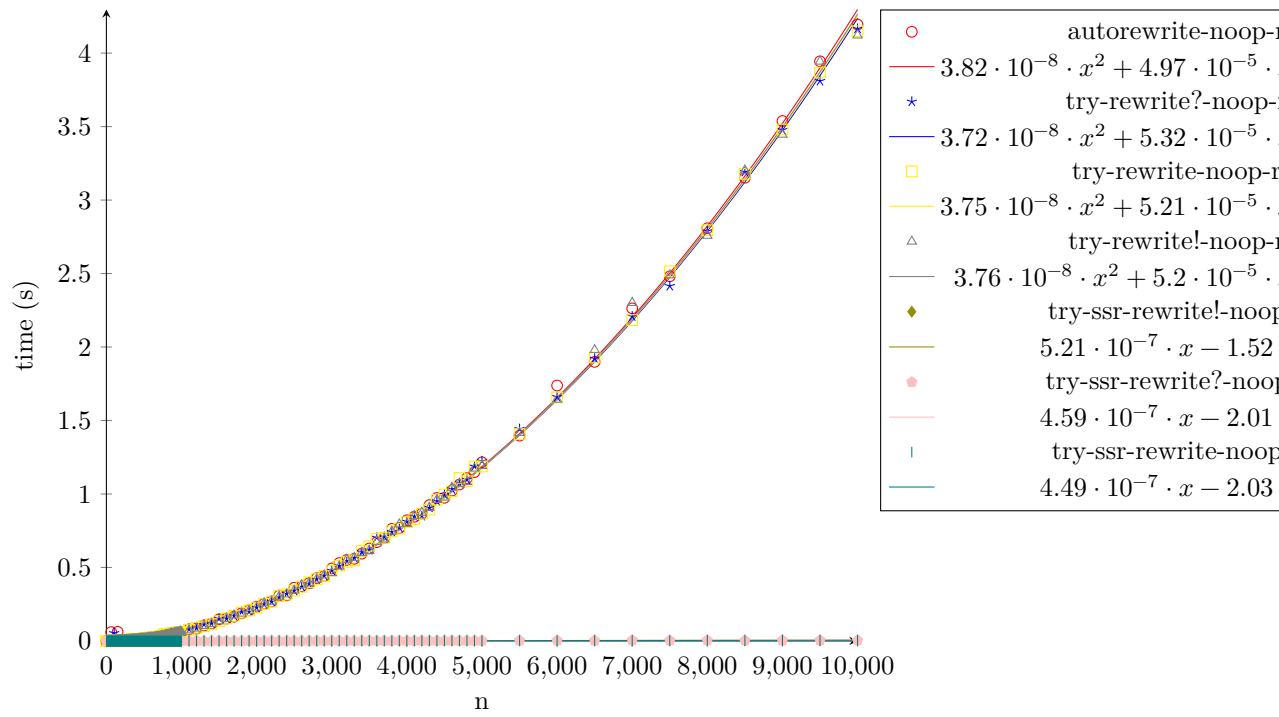
5

Figure 6: timing-rewrite-repeated-app-autorewrite

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

The legend of the figure reads:

- autorewrite-noop-r
- $3.82 \cdot 10^{-8} \cdot x^2 + 4.97 \cdot 10^{-5} \cdot$
- try-rewrite?-noop-
- $3.72 \cdot 10^{-8} \cdot x^2 + 5.32 \cdot 10^{-5} \cdot$
- try-rewrite-noop-r
- $3.75 \cdot 10^{-8} \cdot x^2 + 5.21 \cdot 10^{-5} \cdot$
- try-rewrite!-noop-r
- $3.76 \cdot 10^{-8} \cdot x^2 + 5.2 \cdot 10^{-5} \cdot$
- try-ssr-rewrite!-noop
- $5.21 \cdot 10^{-7} \cdot x - 1.52$
- try-ssr-rewrite?-noop
- $4.59 \cdot 10^{-7} \cdot x - 2.01$
- try-ssr-rewrite-noop
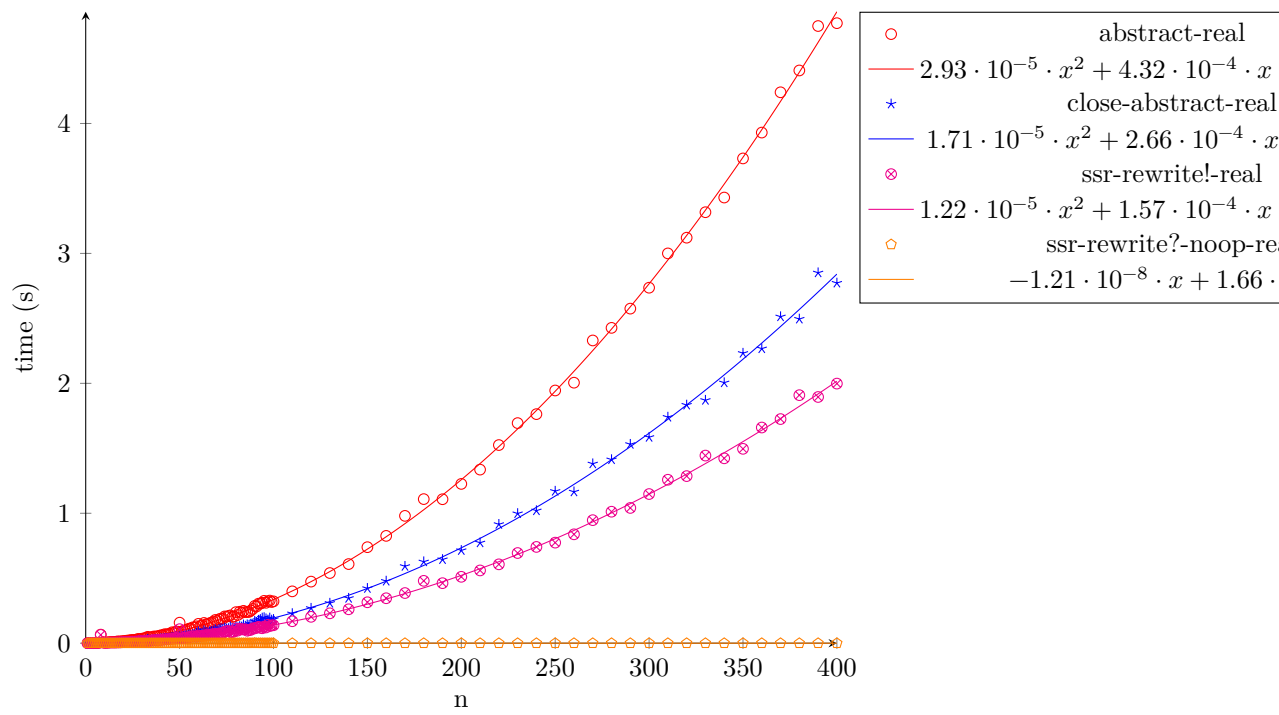- $4.49 \cdot 10^{-7} \cdot x - 2.03$

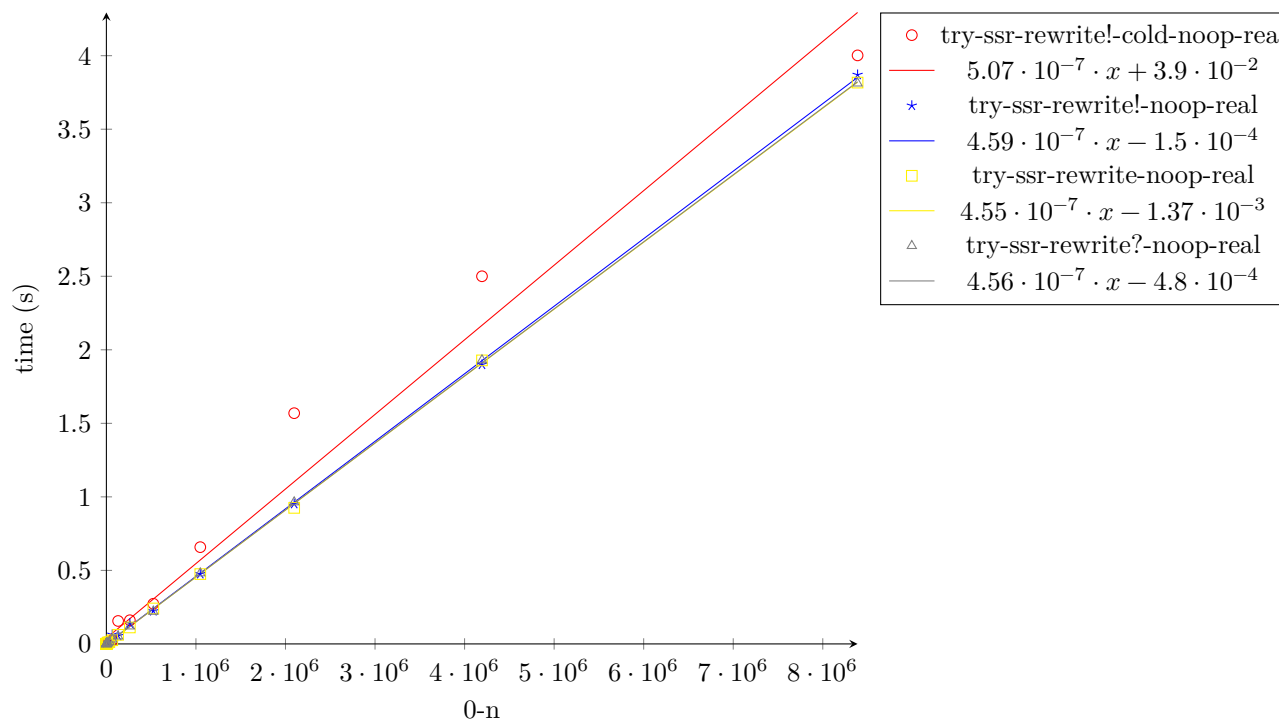Figure 8: timing-rewrite-repeated-app-ssrrewrite

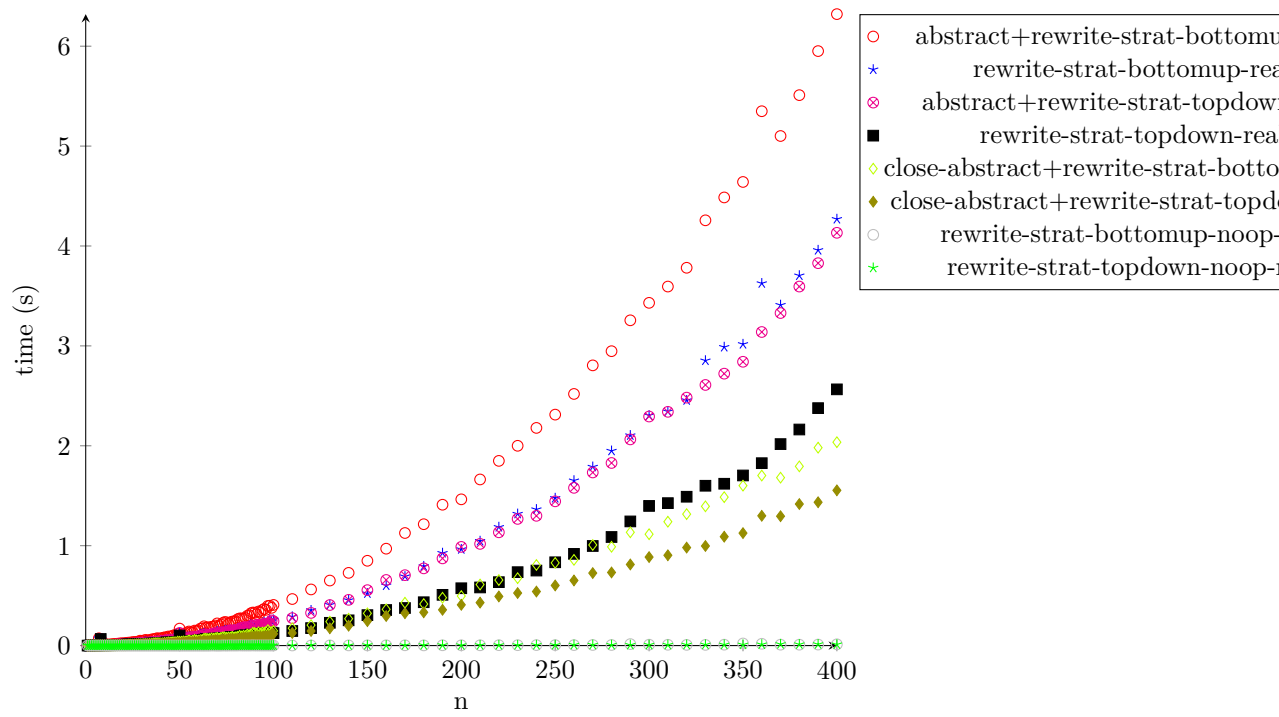Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

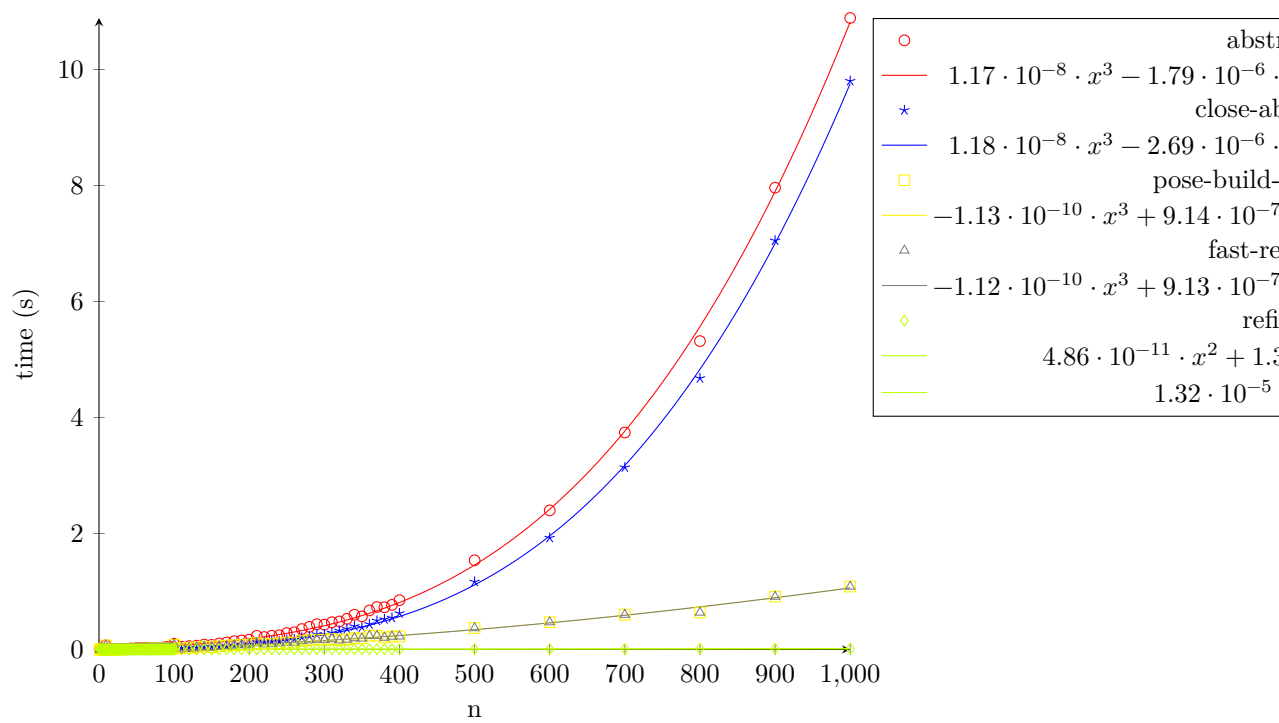Figure 10: timing-rewrite-repeated-app-rewrite-strat
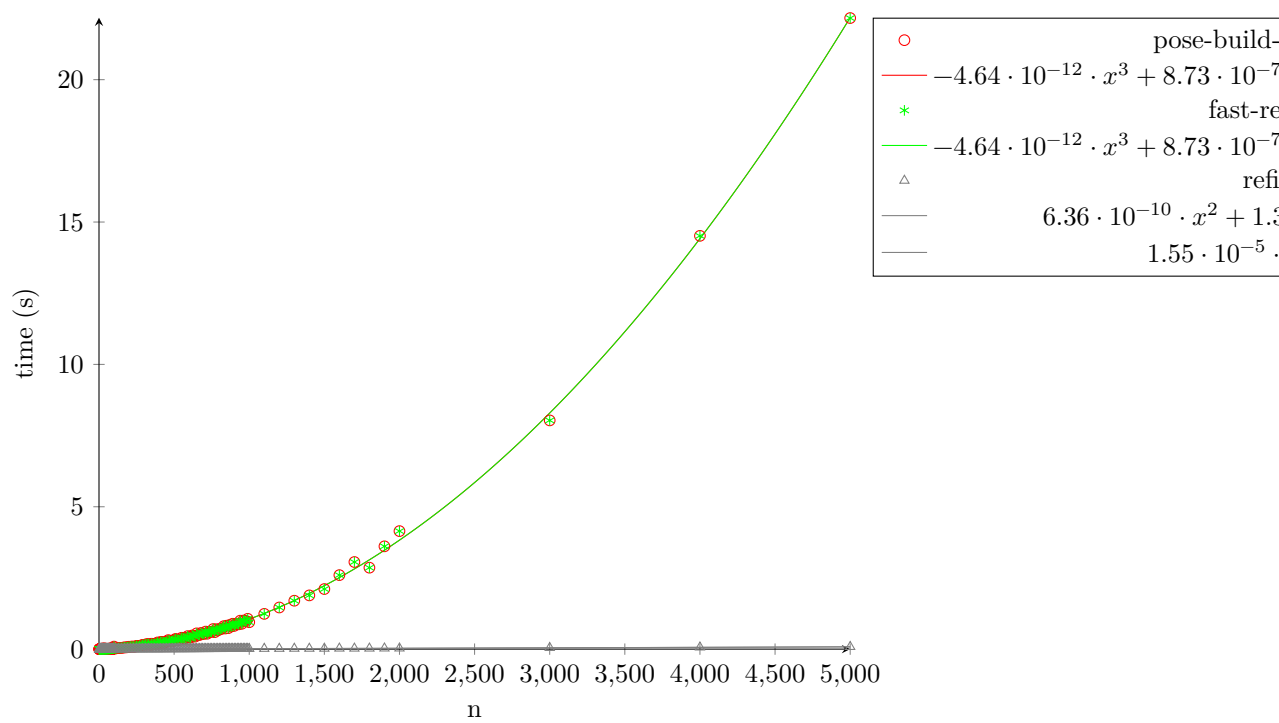
Figure 11: timing-rewrite-repeated-app-fast-rewrite

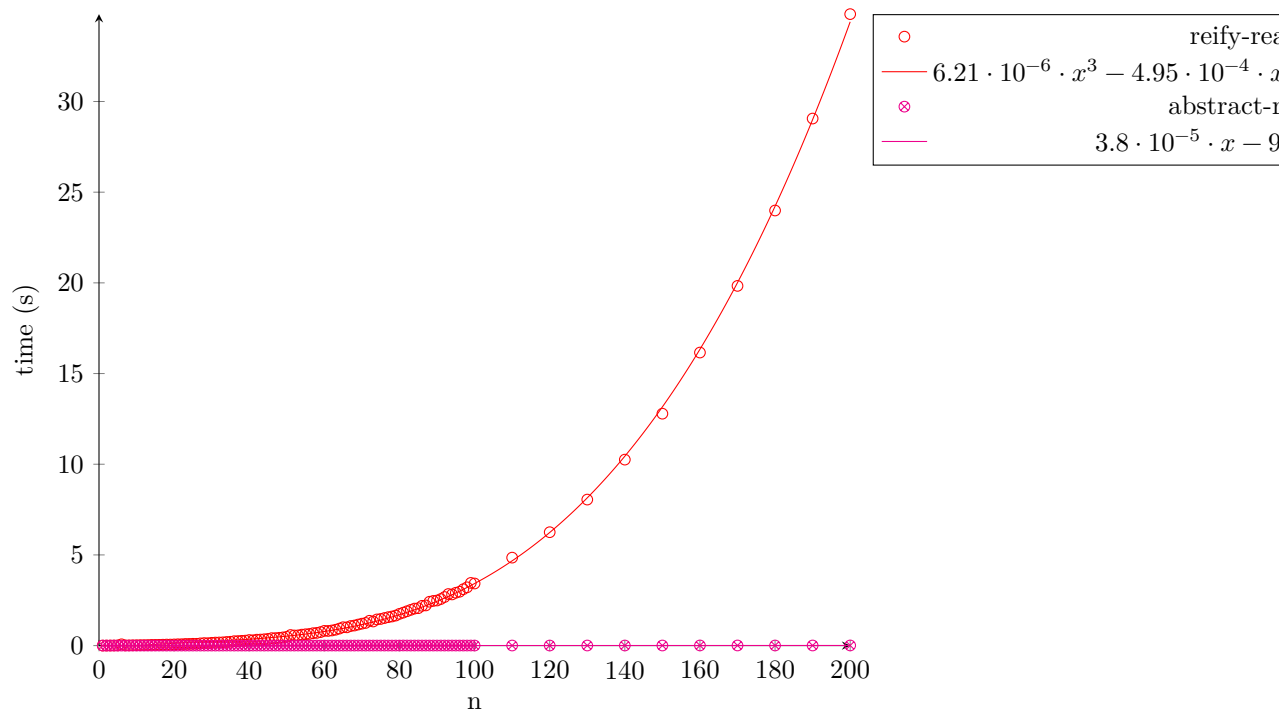Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
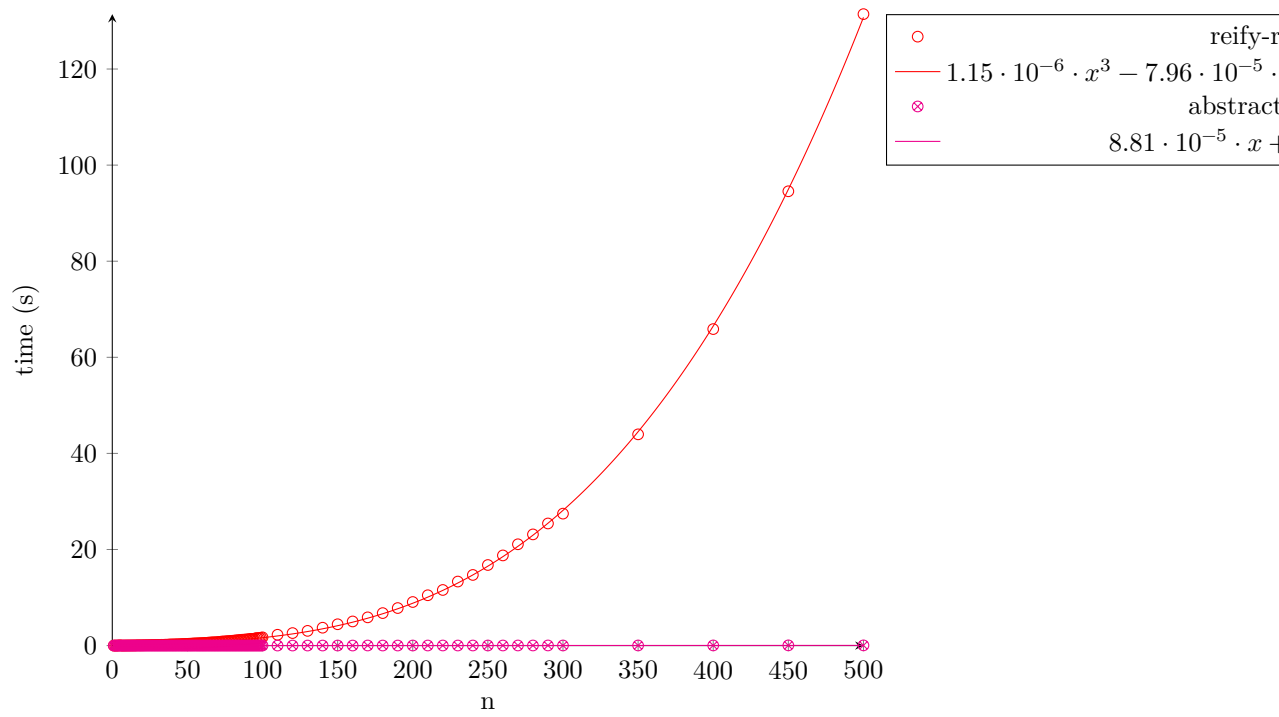
Figure 13: timing-typeclass-reification-let-in-HOAS

13

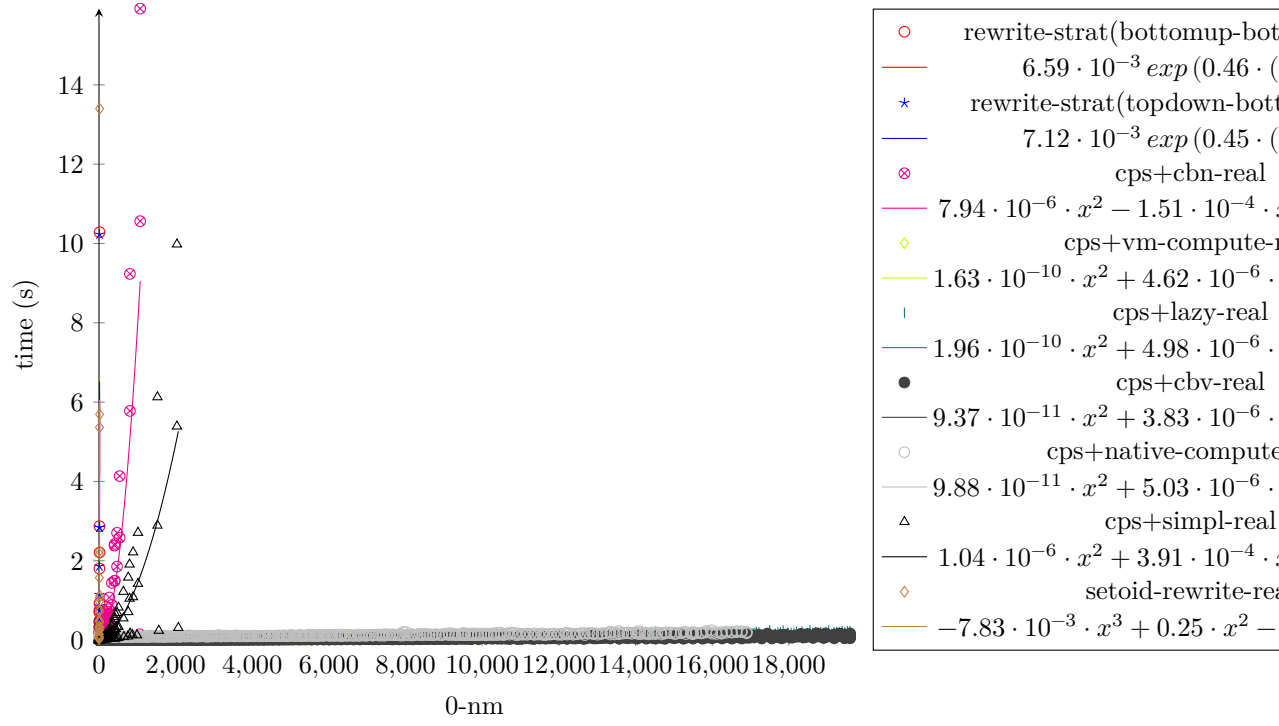Figure 14: timing-typeclass-reification-let-in-PHOAS

14

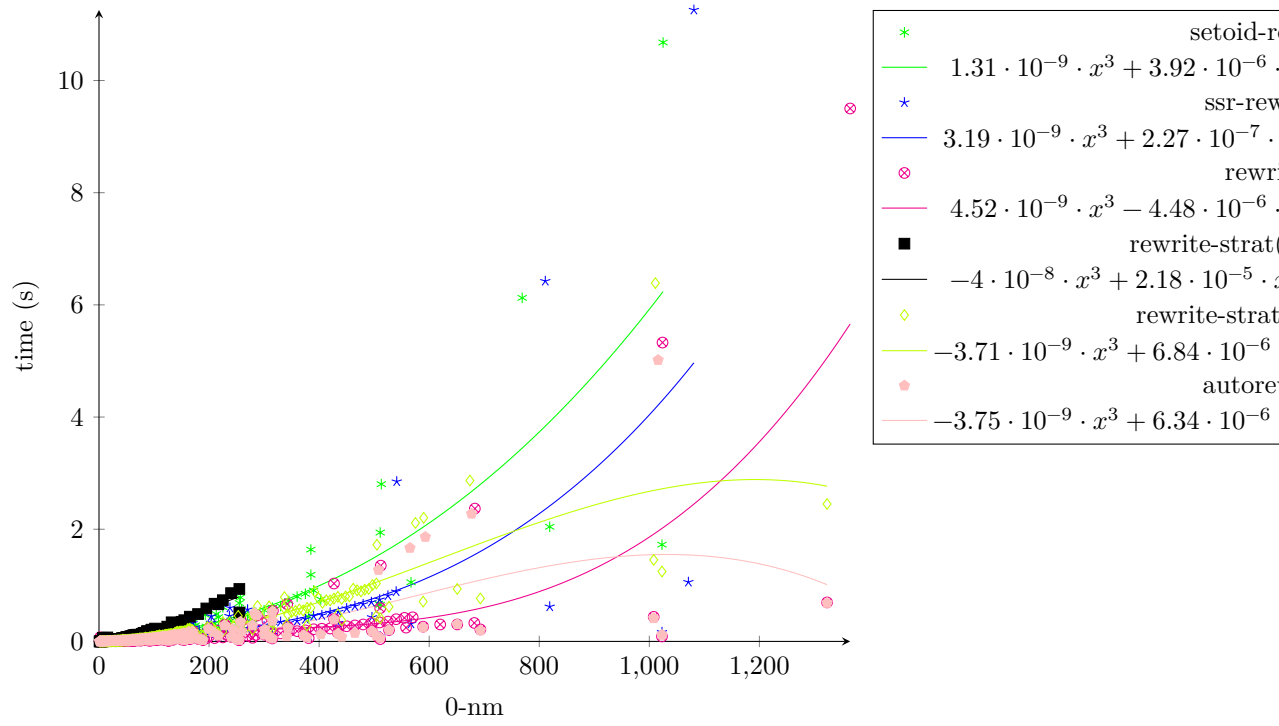Figure 15: timing-rewrite-lift-lets-map param-1-n 1, param-2-m 1

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
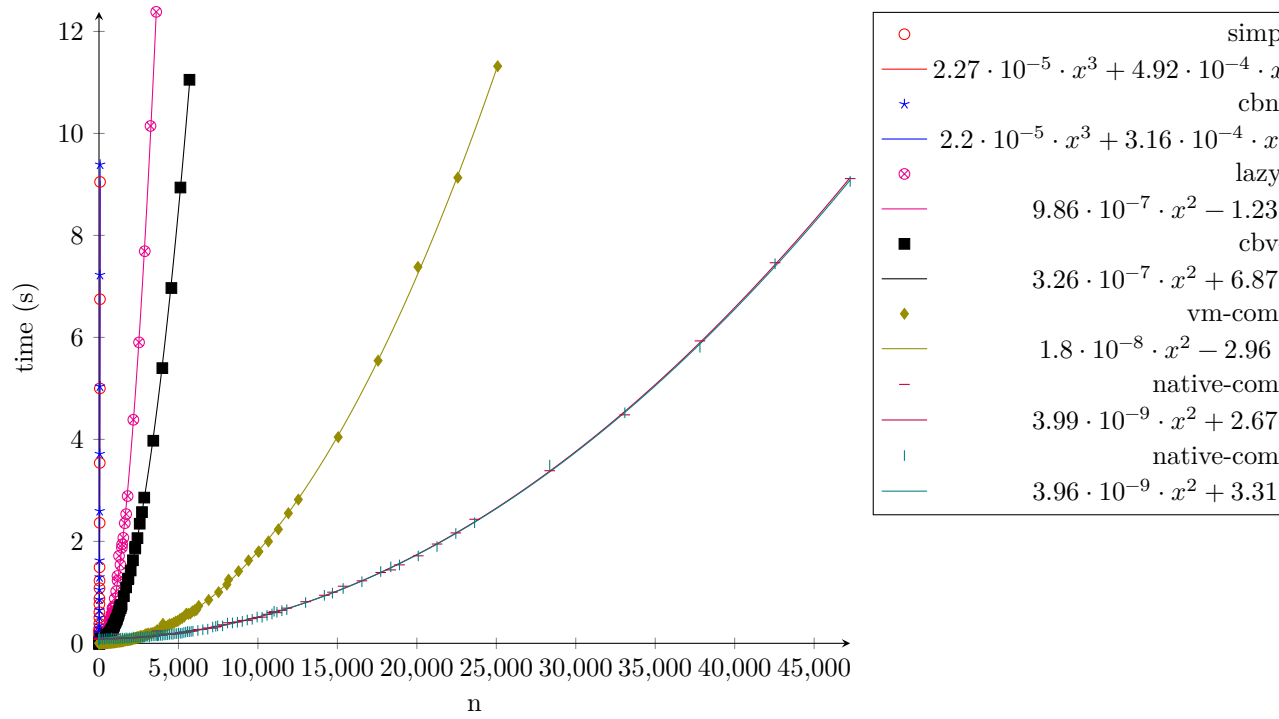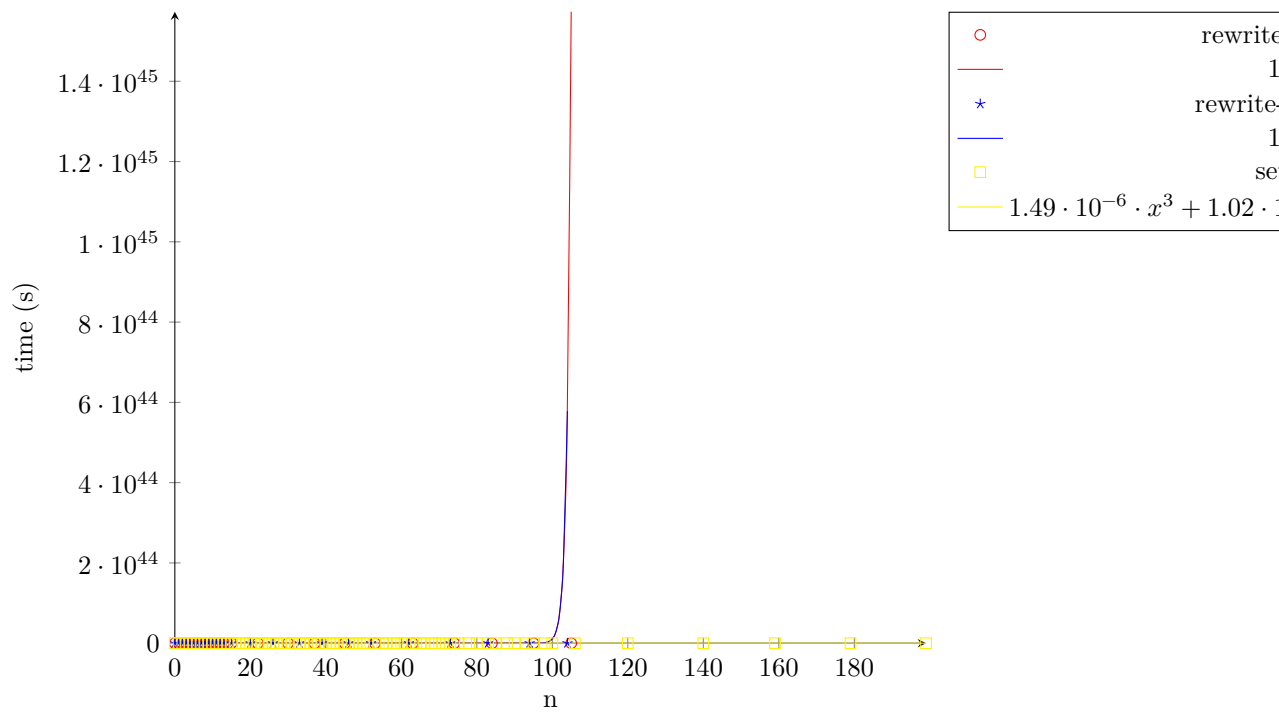
Figure 17: timing-sieve-of-eratosthenes

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