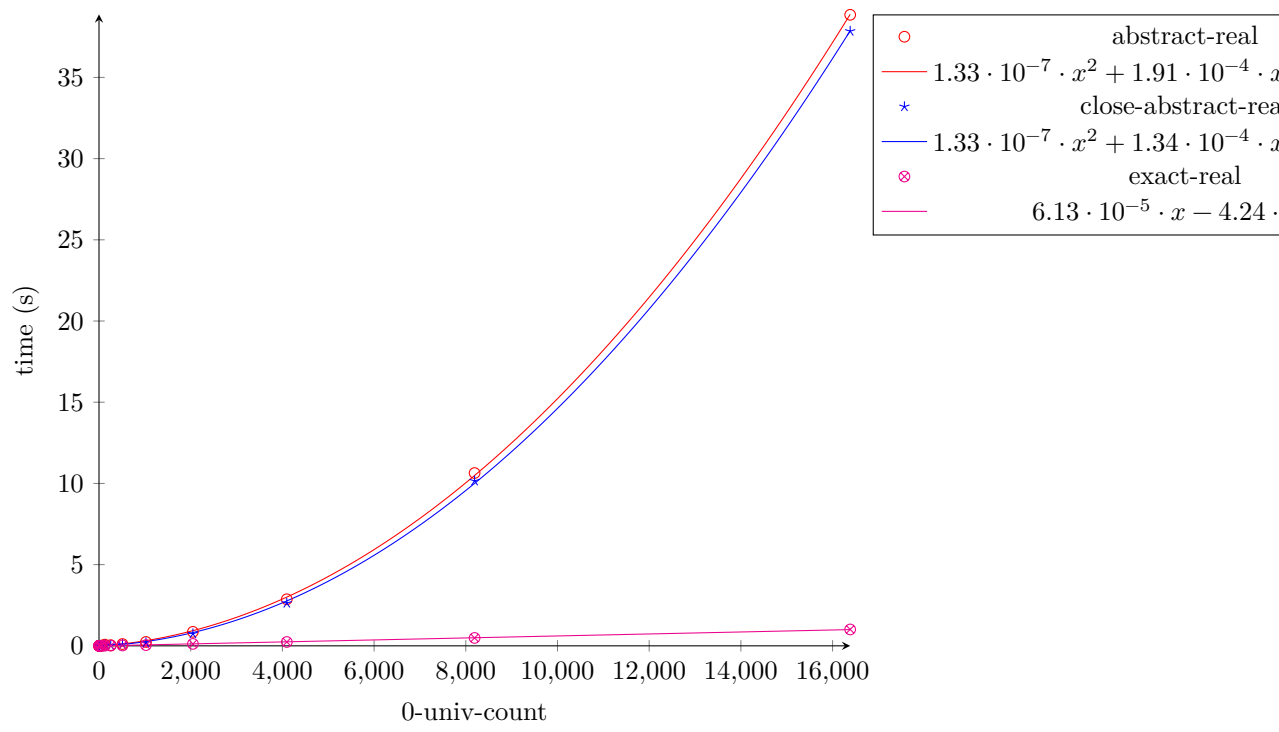Figure 1: timing-pattern

1

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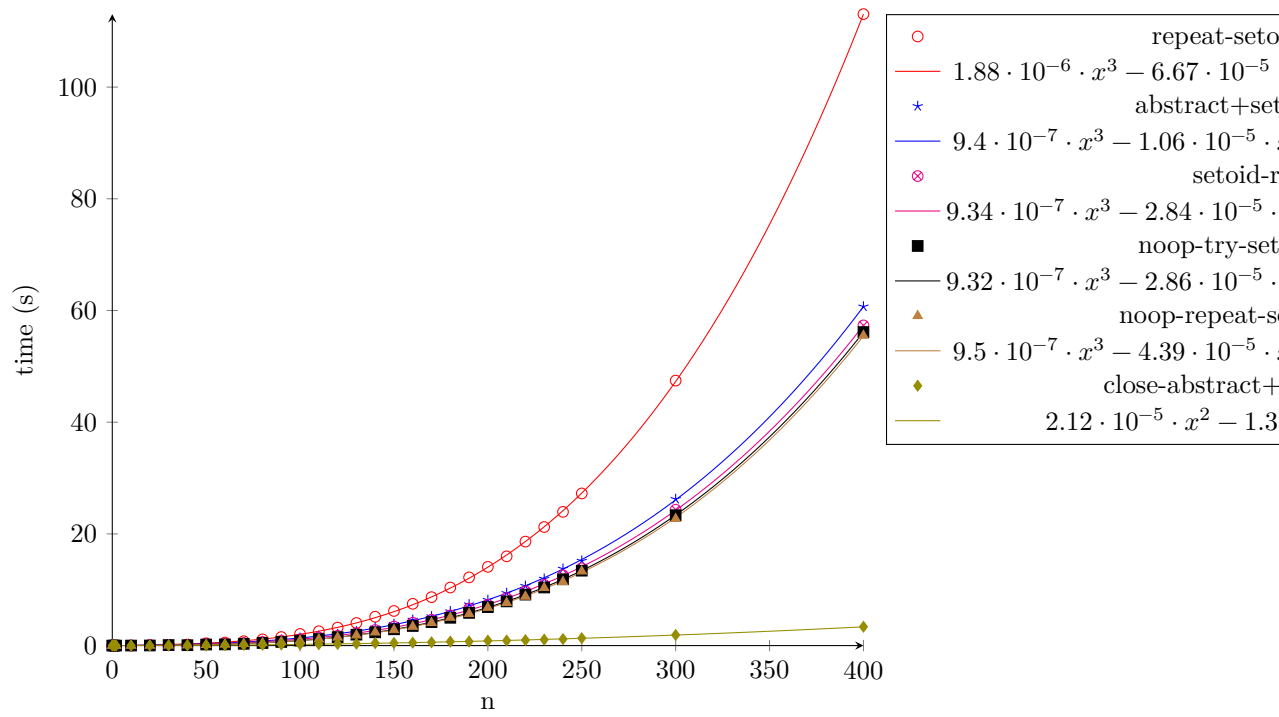
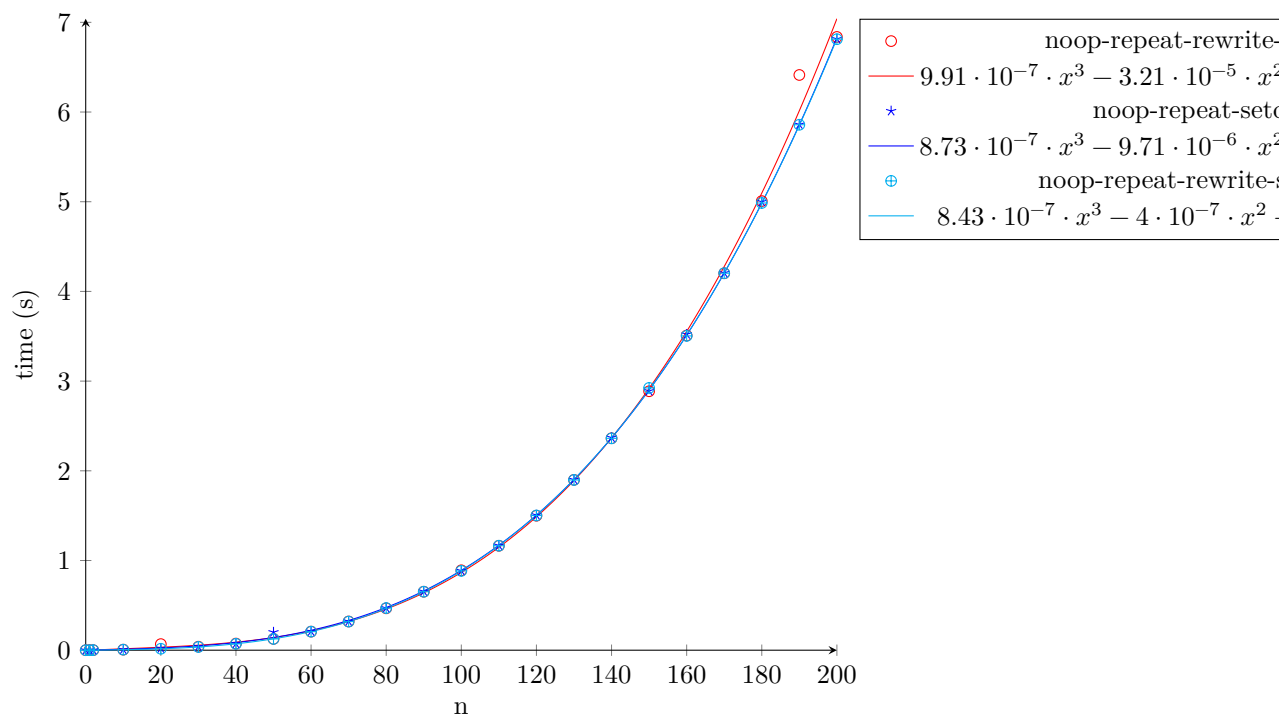Figure 3: timing-repeat-setoid-rewrite-under-binders

3

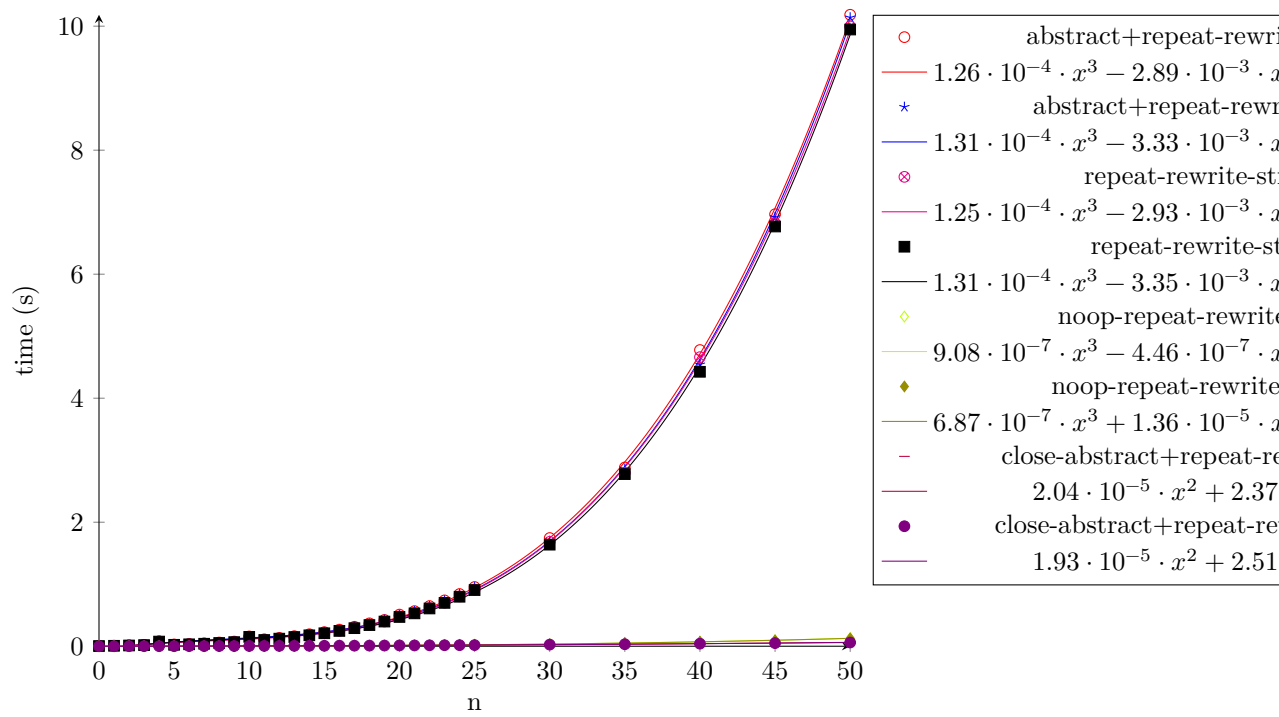Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

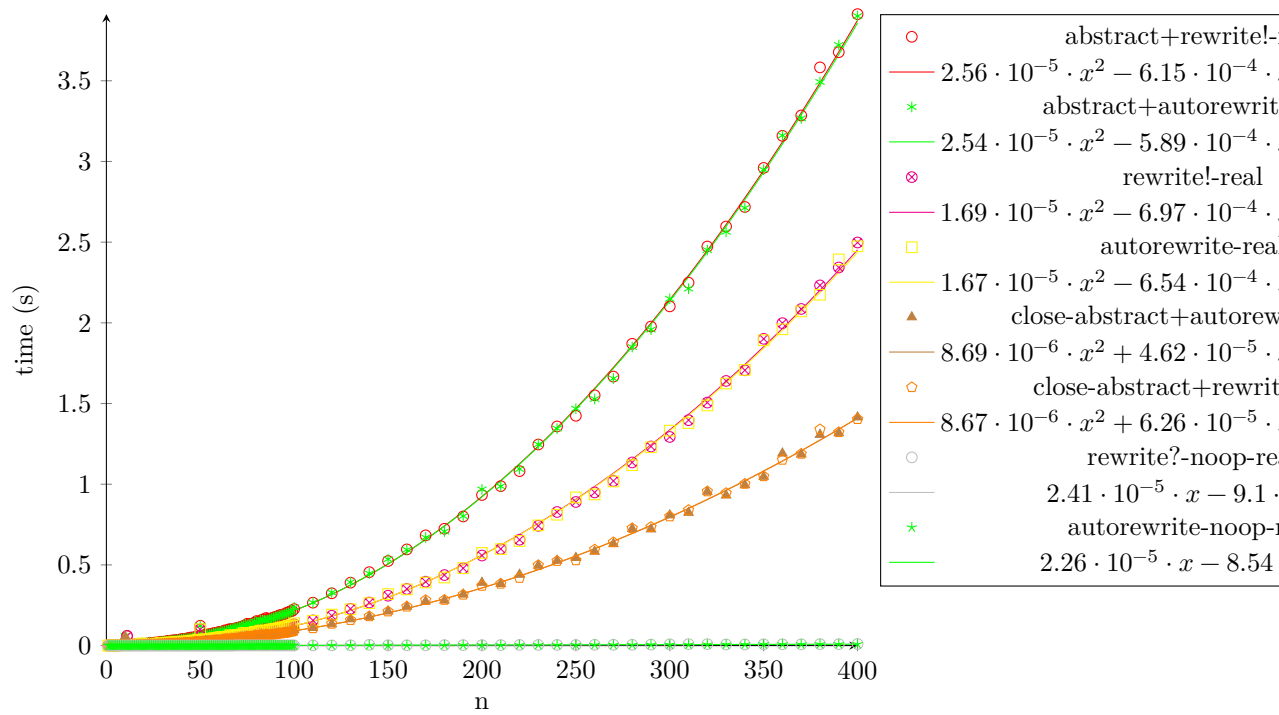Figure 5: timing-rewrite-strat-under-binders
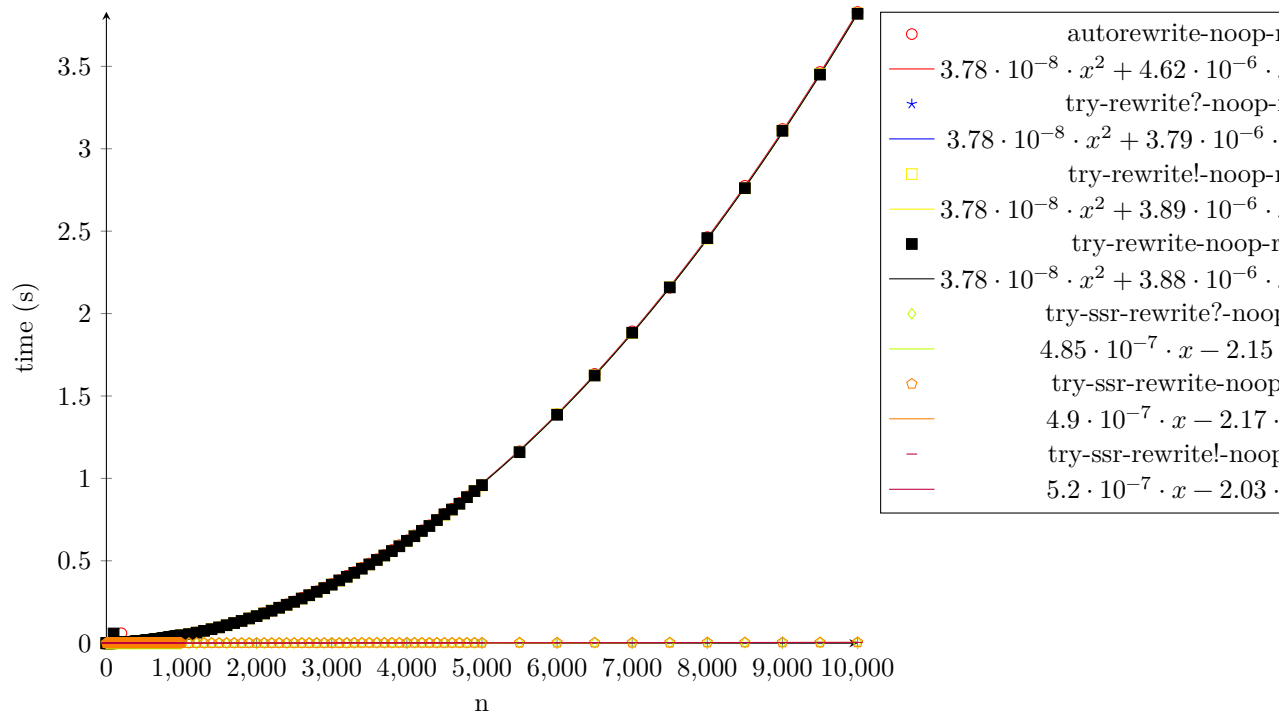
Figure 6: timing-rewrite-repeated-app-autorewrite

6

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

The legend contains the following entries:

- autorewrite-noop-r ○
- $3.78 \cdot 10^{-8} \cdot x^2 + 4.62 \cdot 10^{-6} \cdot$ (red)
- try-rewrite?-noop- ⋆
- $3.78 \cdot 10^{-8} \cdot x^2 + 3.79 \cdot 10^{-6} \cdot$ (blue)
- try-rewrite!-noop-r □
- $3.78 \cdot 10^{-8} \cdot x^2 + 3.89 \cdot 10^{-6} \cdot$ (yellow)
- try-rewrite-noop-r ■
- $3.78 \cdot 10^{-8} \cdot x^2 + 3.88 \cdot 10^{-6} \cdot$ (black)
- try-ssr-rewrite?-noop ◇
- $4.85 \cdot 10^{-7} \cdot x - 2.15$ (green)
- try-ssr-rewrite-noop ⬠
- $4.9 \cdot 10^{-7} \cdot x - 2.17 \cdot$ (orange)
- try-ssr-rewrite!-noop –
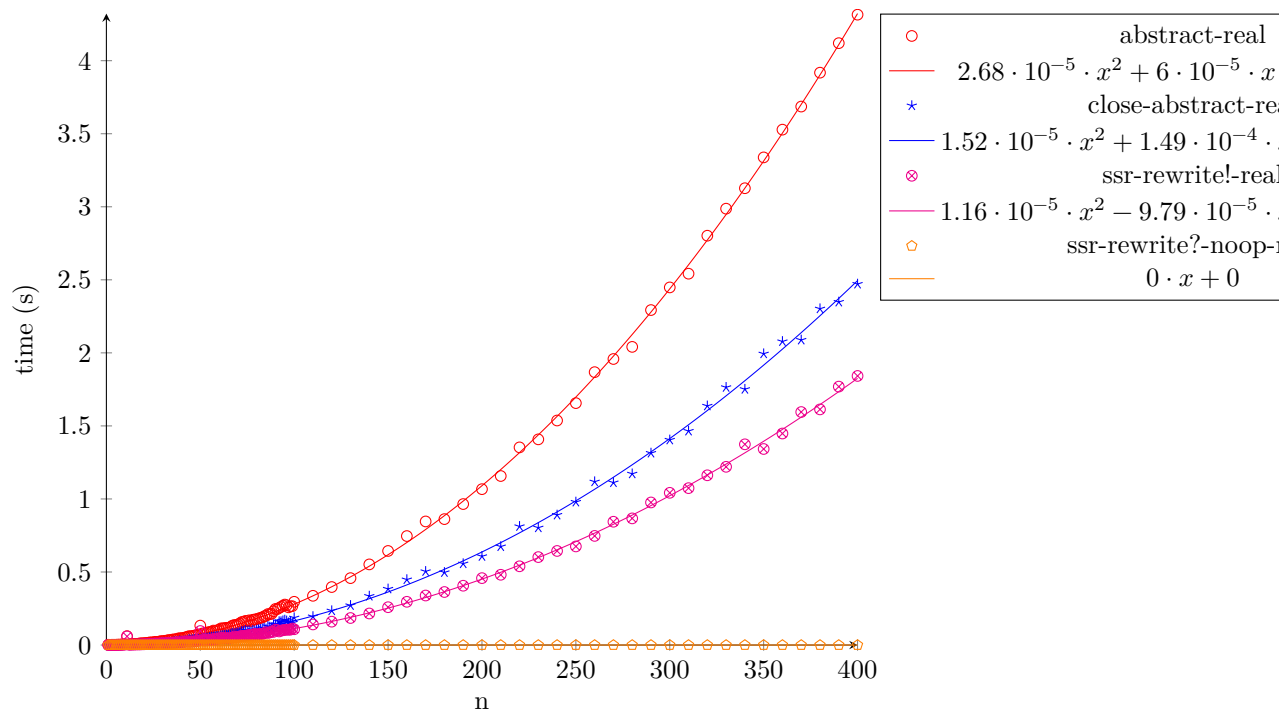- $5.2 \cdot 10^{-7} \cdot x - 2.03 \cdot$ (dark red)

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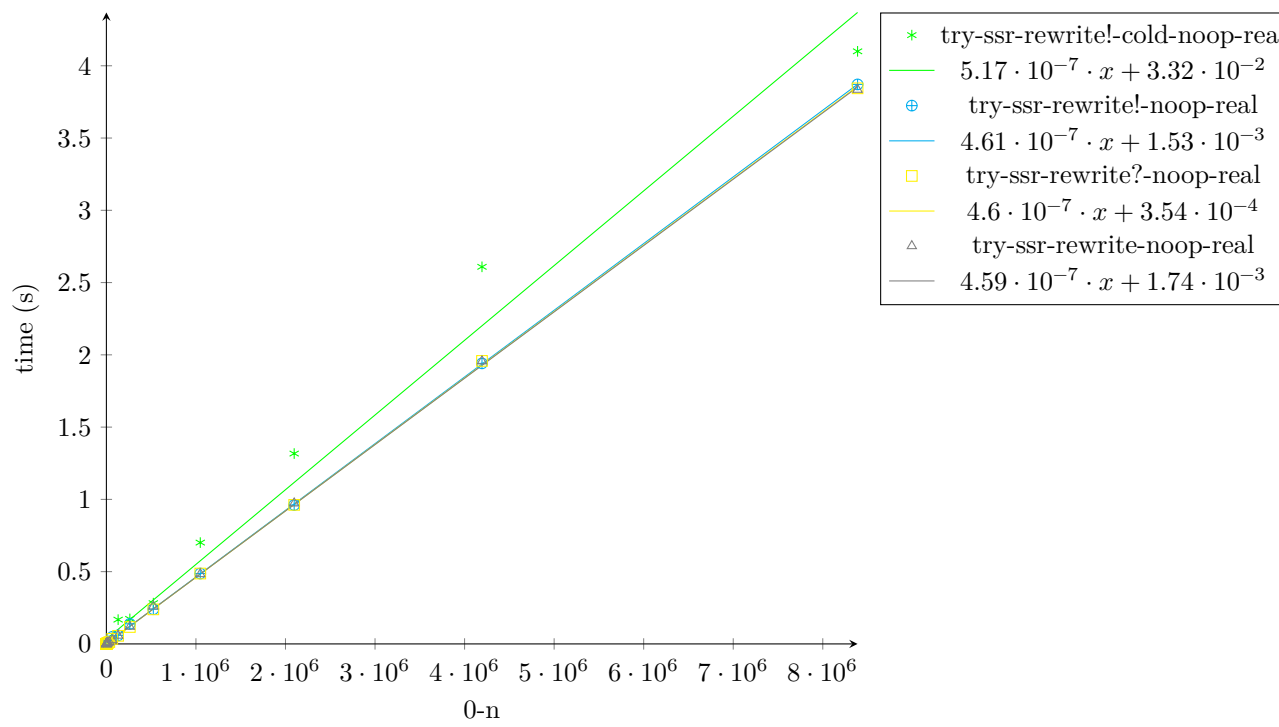
8

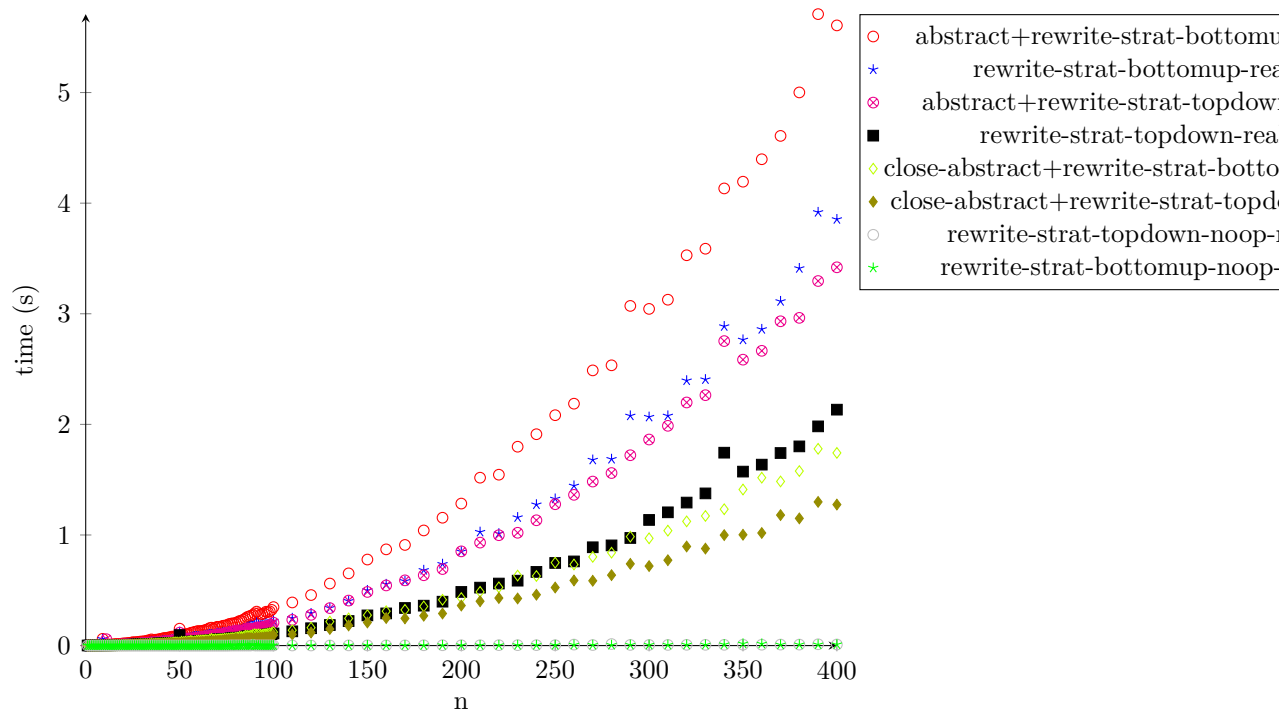Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1
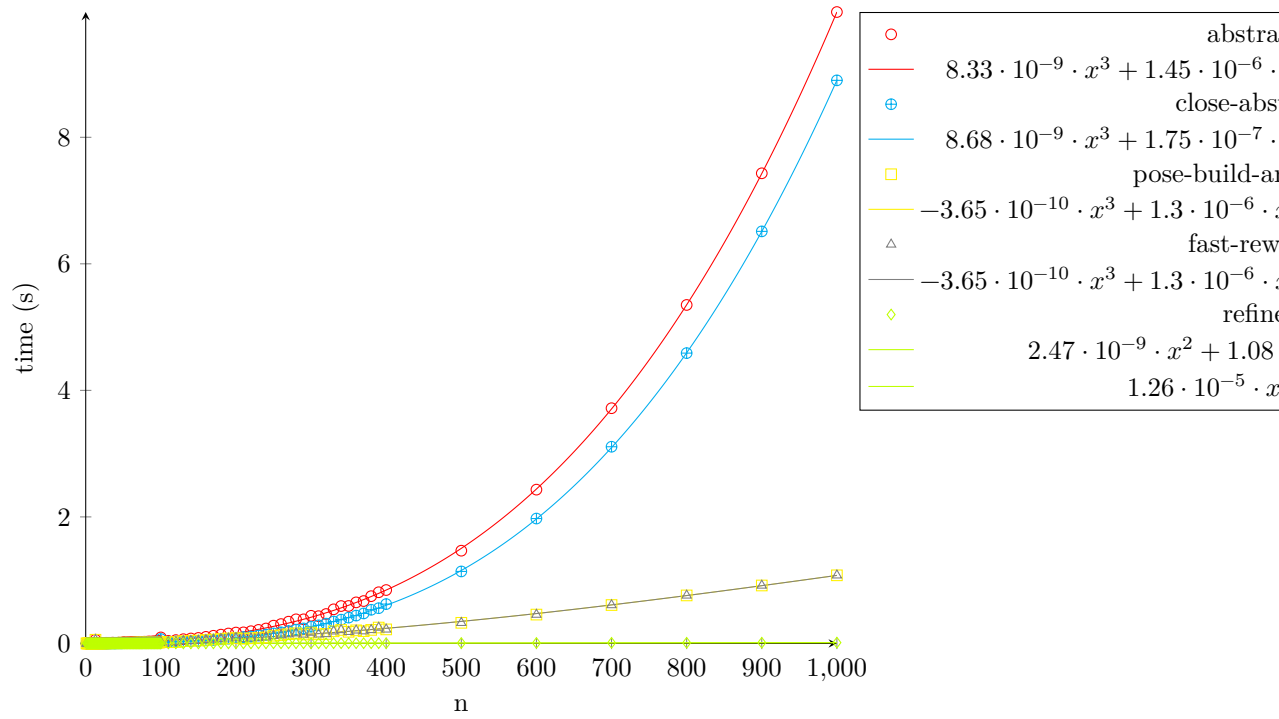
Figure 10: timing-rewrite-repeated-app-rewrite-strat
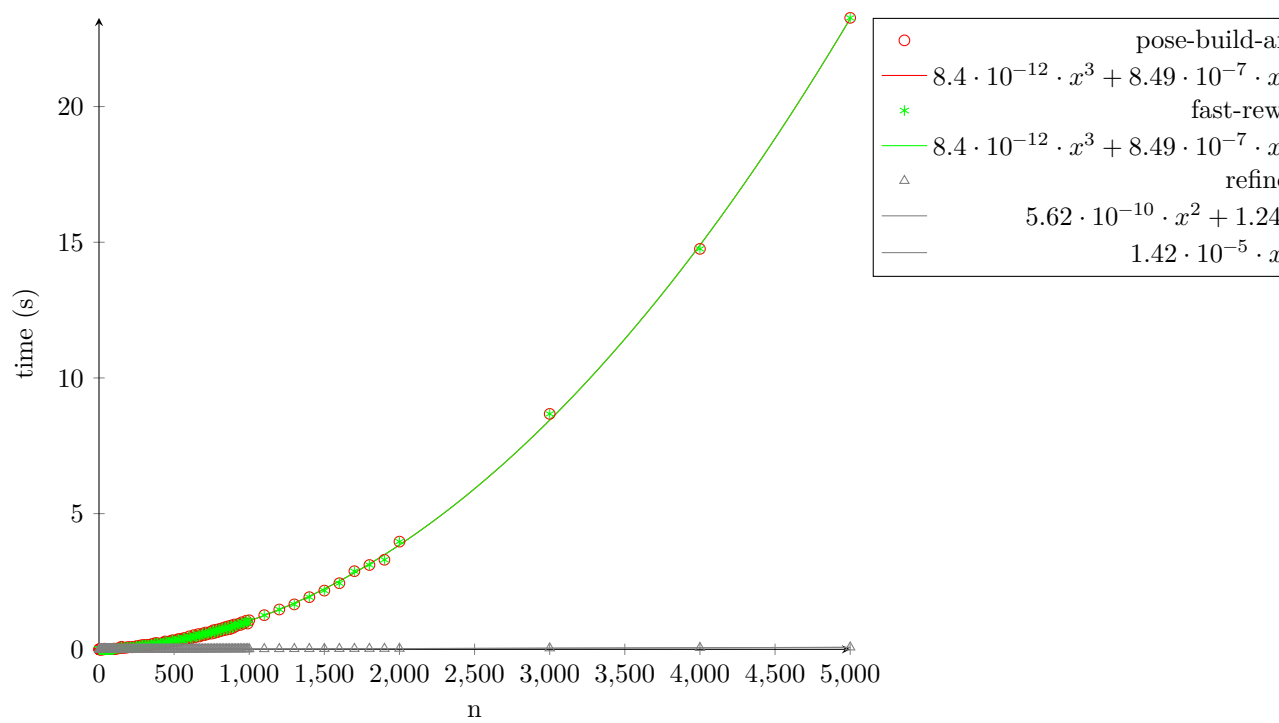
Figure 11: timing-rewrite-repeated-app-fast-rewrite

11

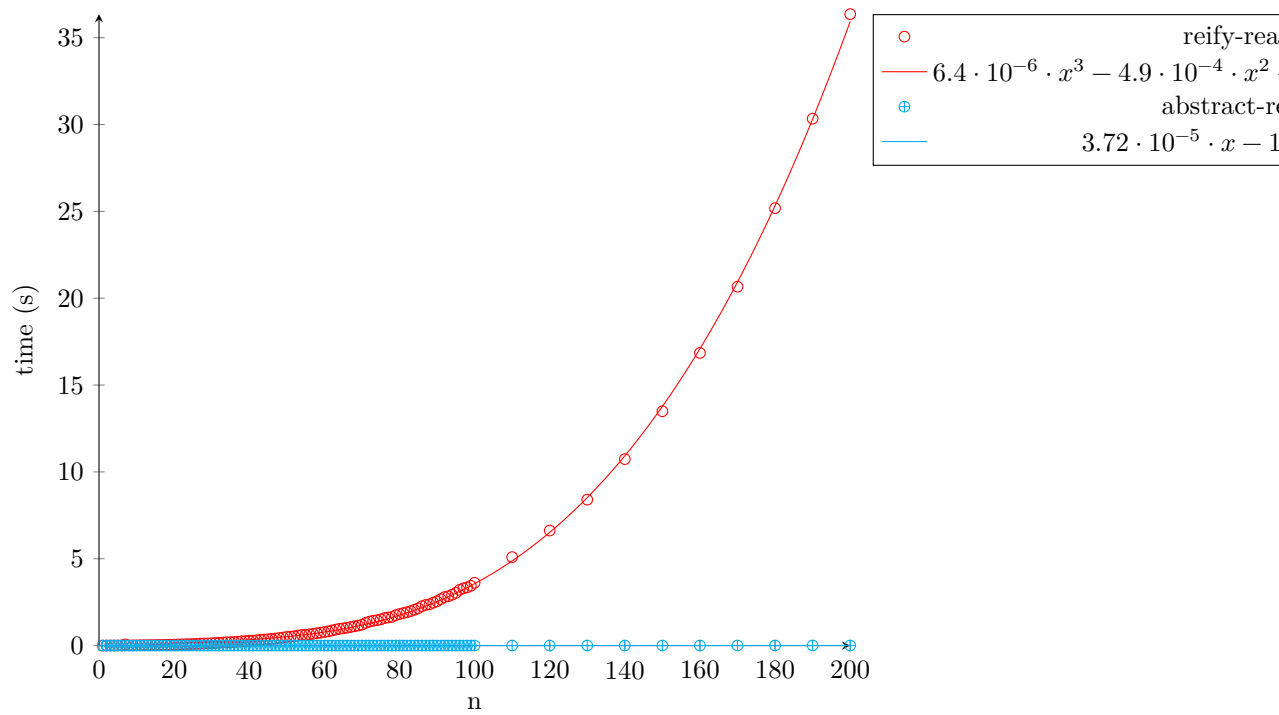Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract

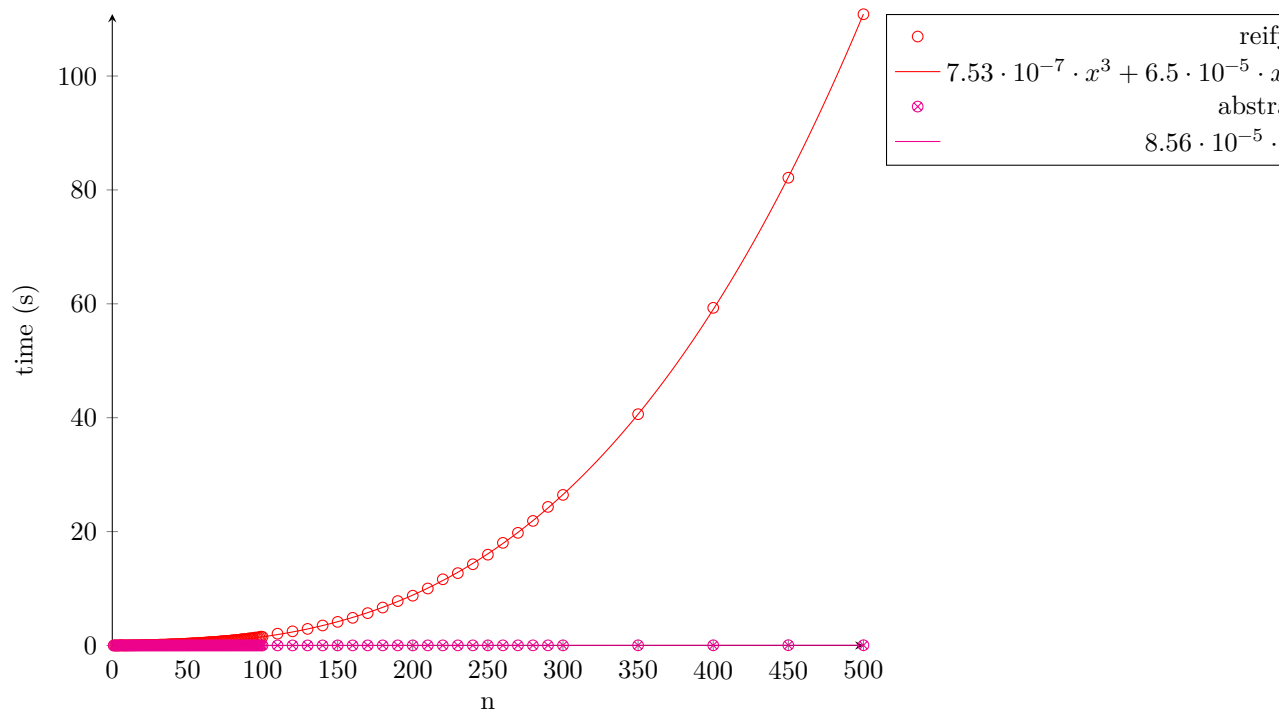Figure 13: timing-typeclass-reification-let-in-HOAS

13

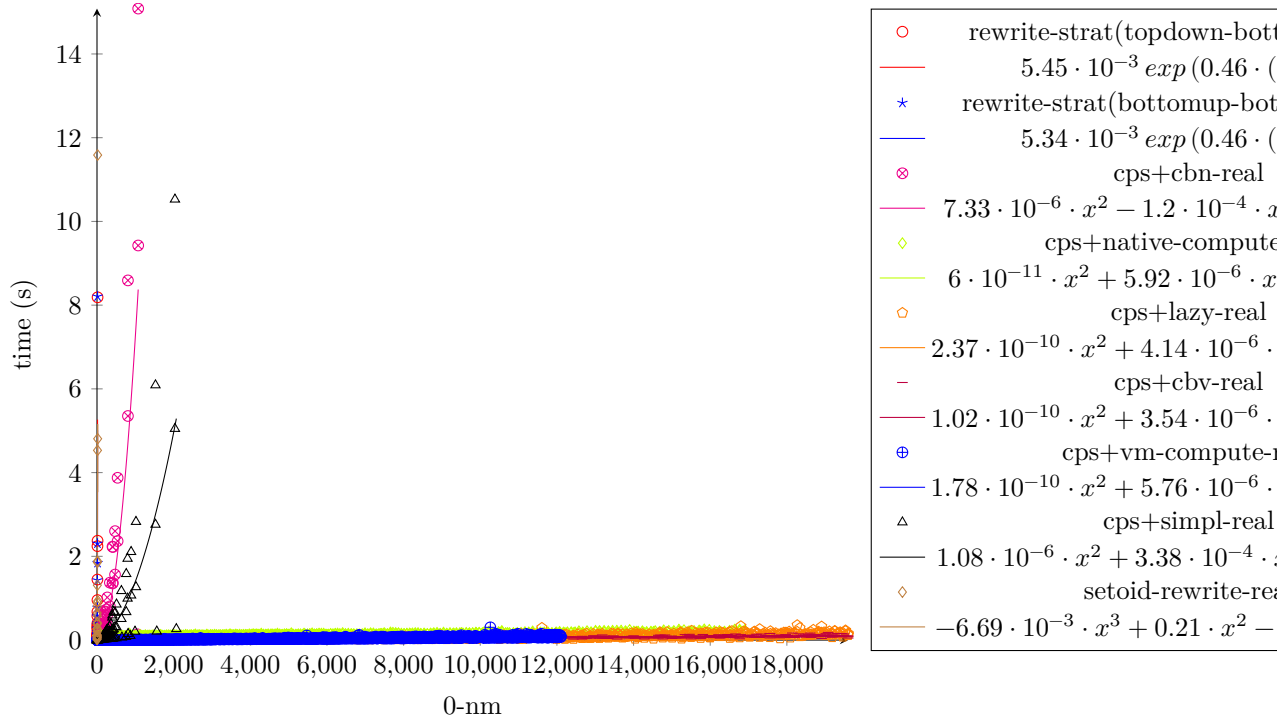Figure 14: timing-typeclass-reification-let-in-PHOAS

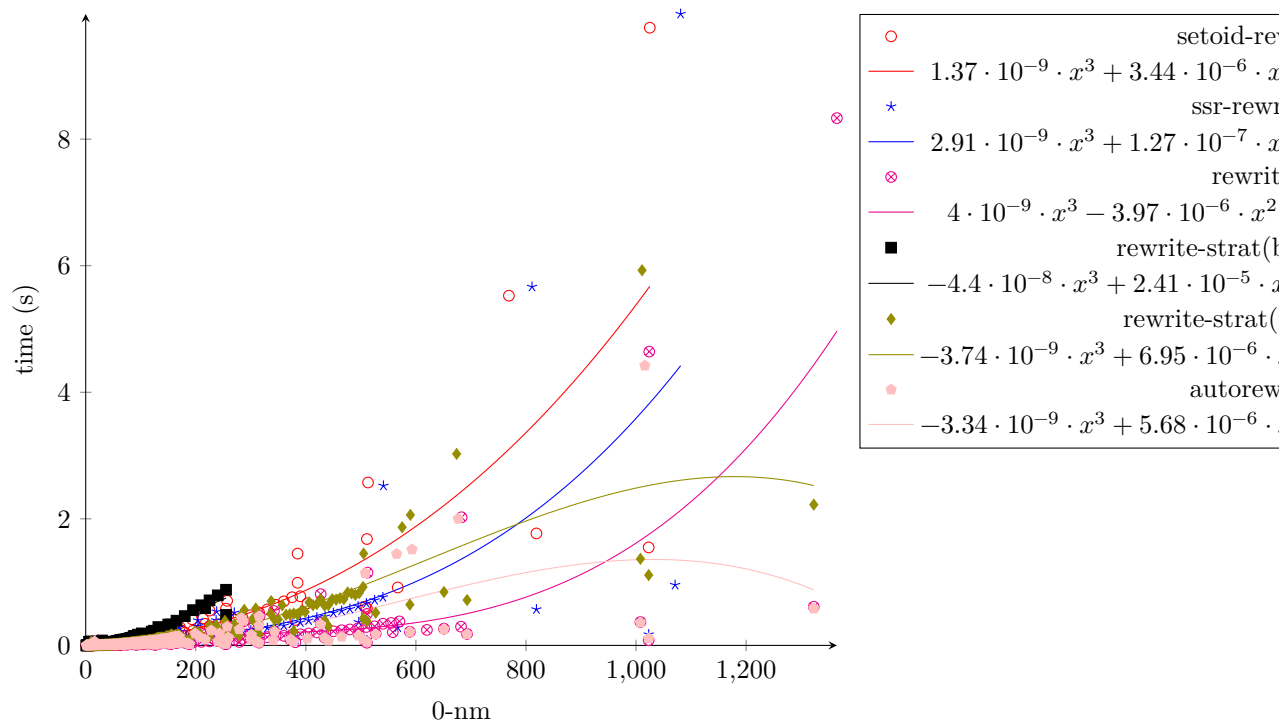Figure 15: timing-rewrite-lift-lets-map param-1-n 1, param-2-m 1

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
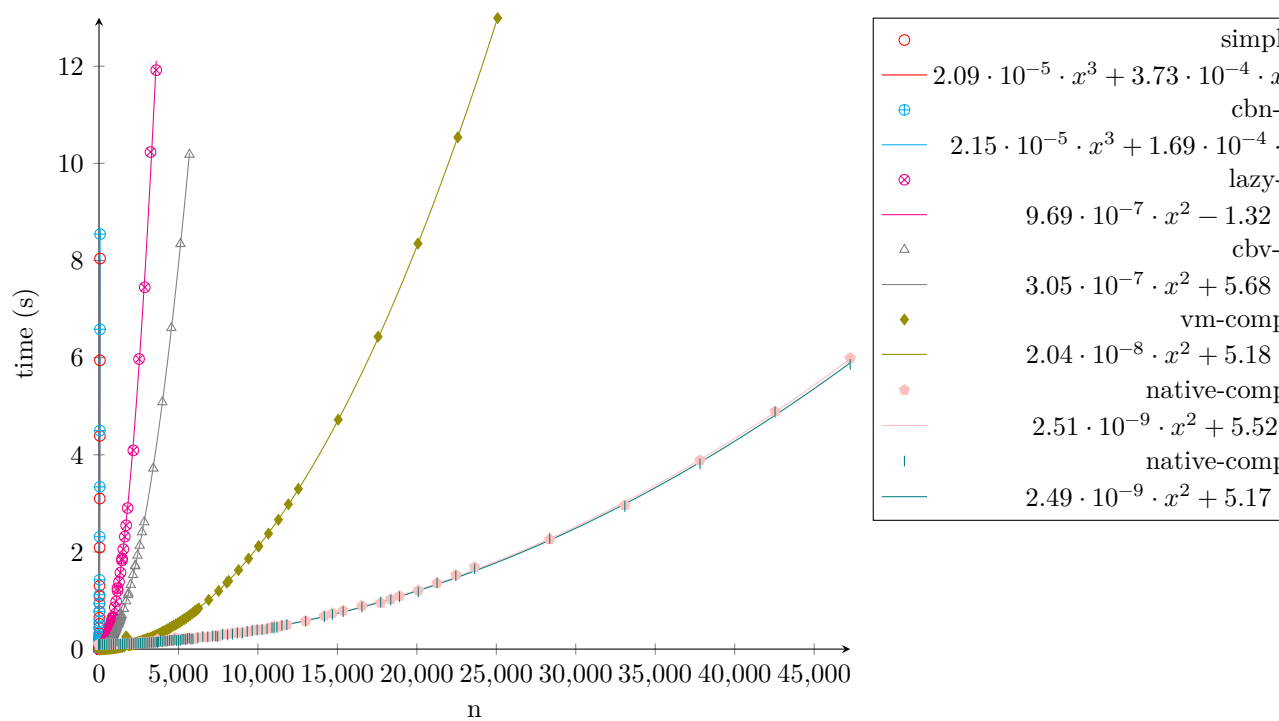
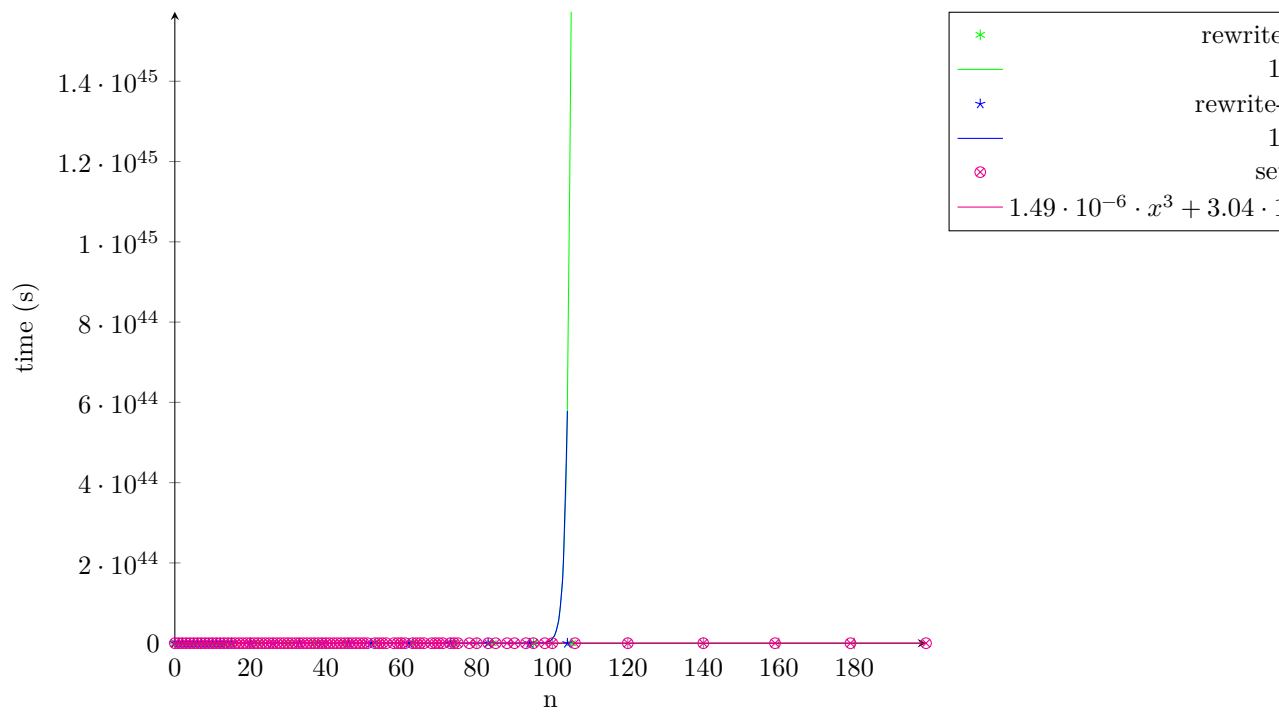Figure 17: timing-sieve-of-eratosthenes
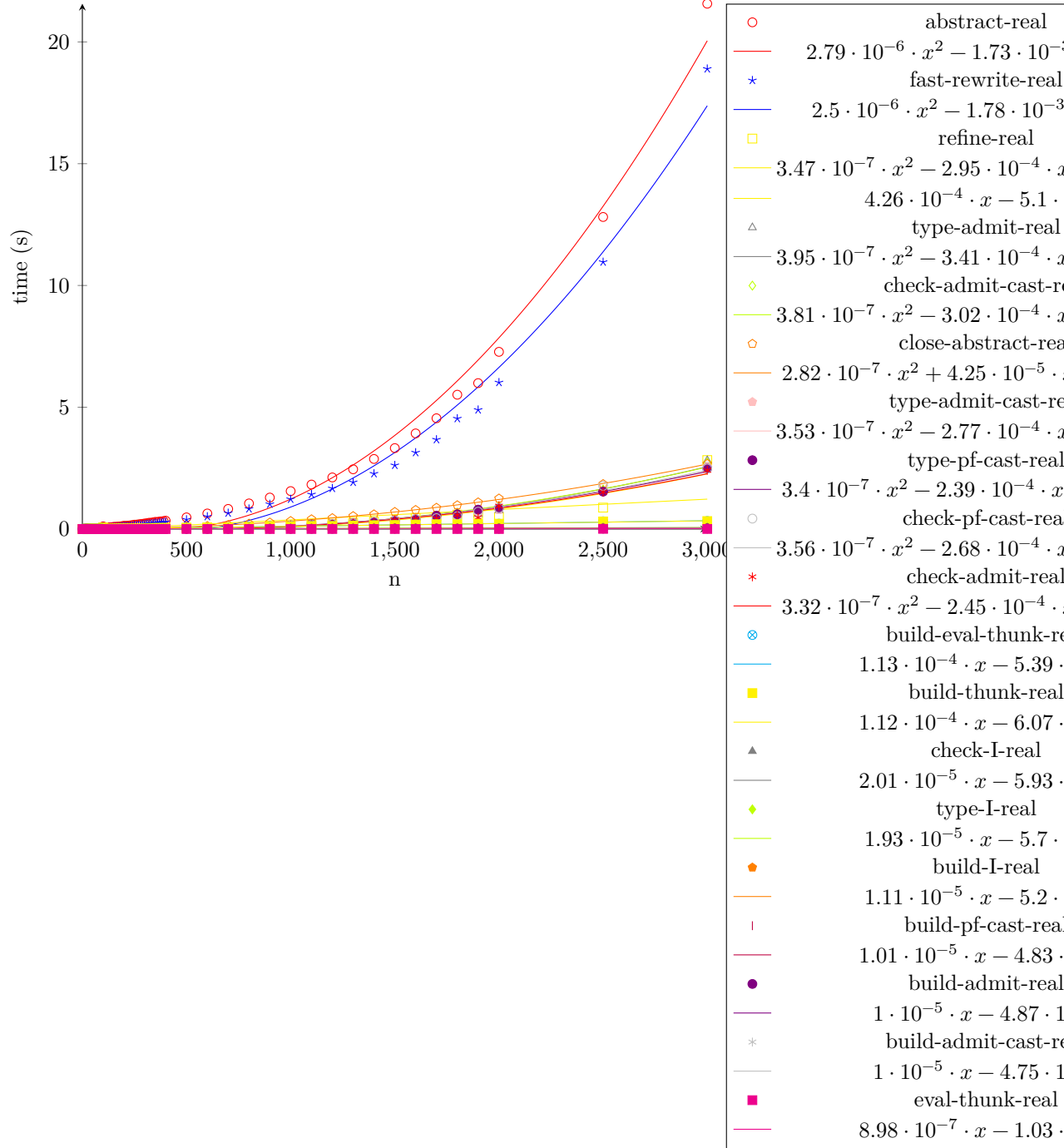
Figure 18: timing-rewrite-under-lets-plus-0

Figure 19: timing-rewrite-repeated-app-fast-rewrite-ltac2