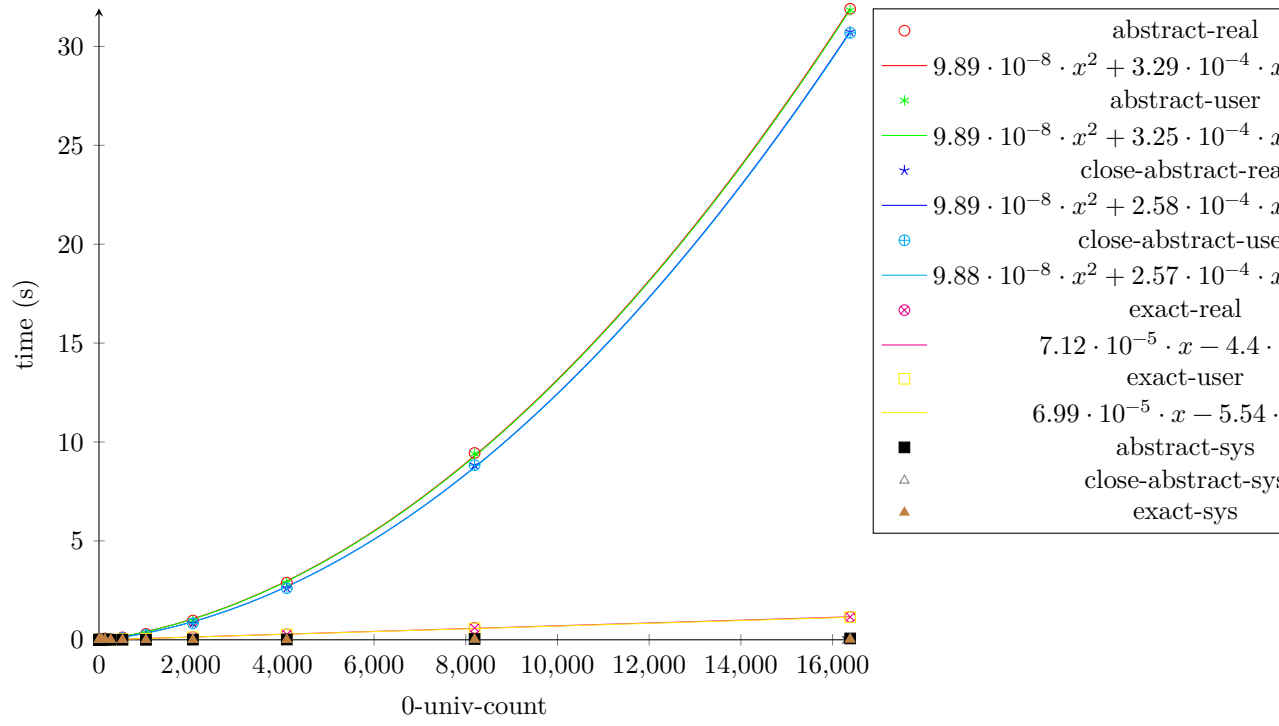Figure 1: timing-pattern

1

Figure 2: timing-n-polymorphic-universes param-1-n   0
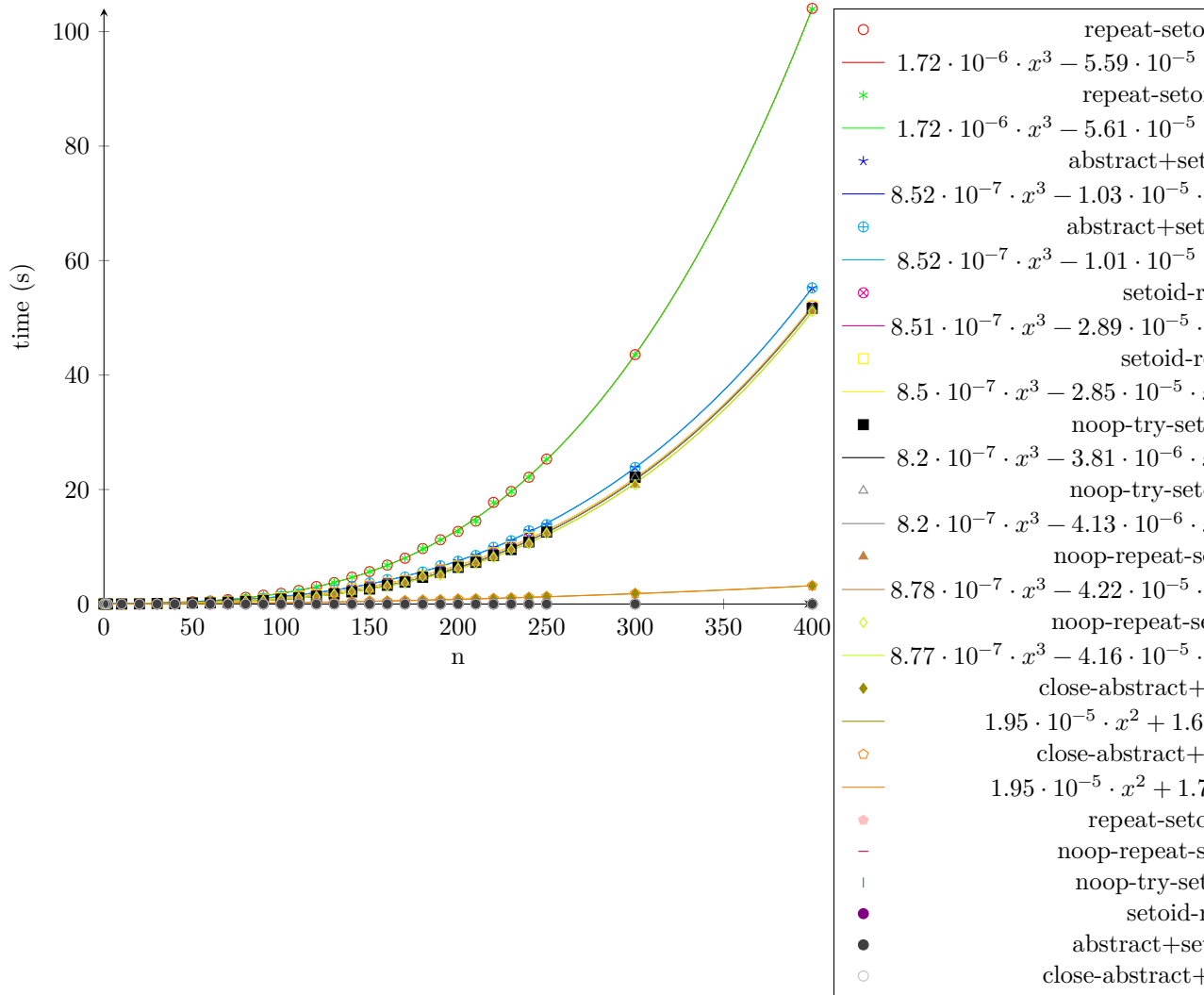
Figure 3: timing-repeat-setoid-rewrite-under-binders
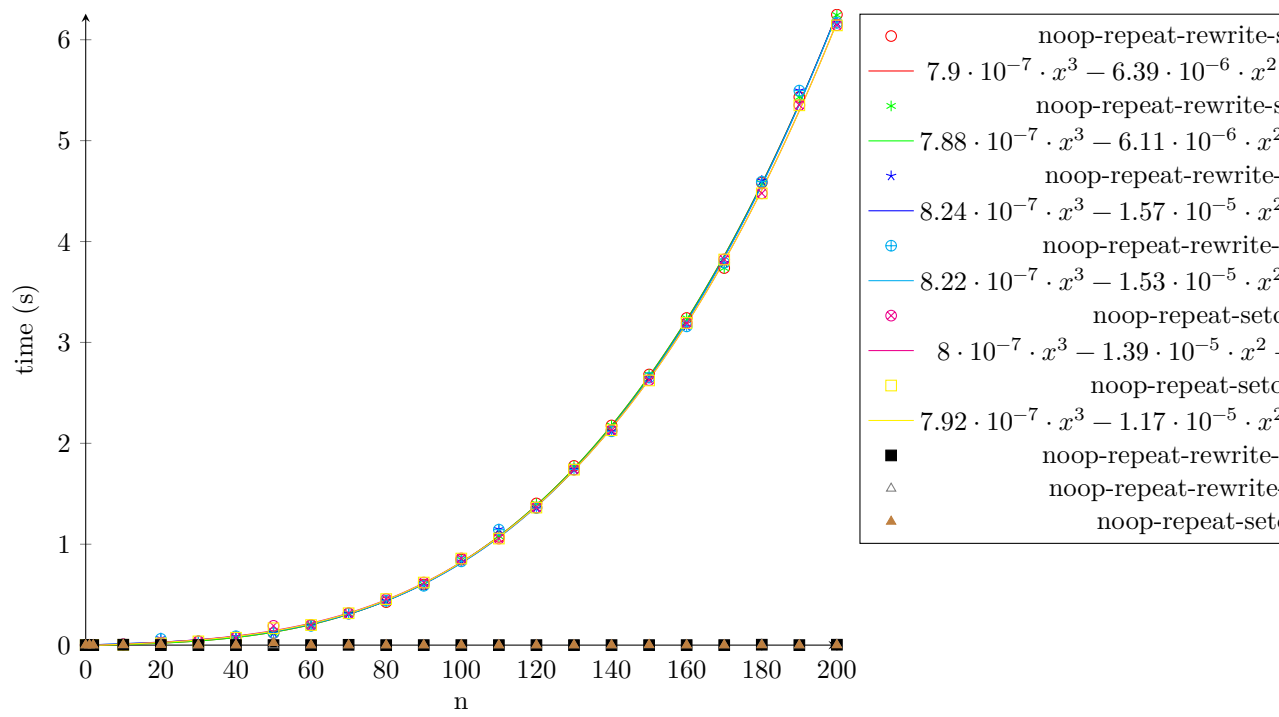
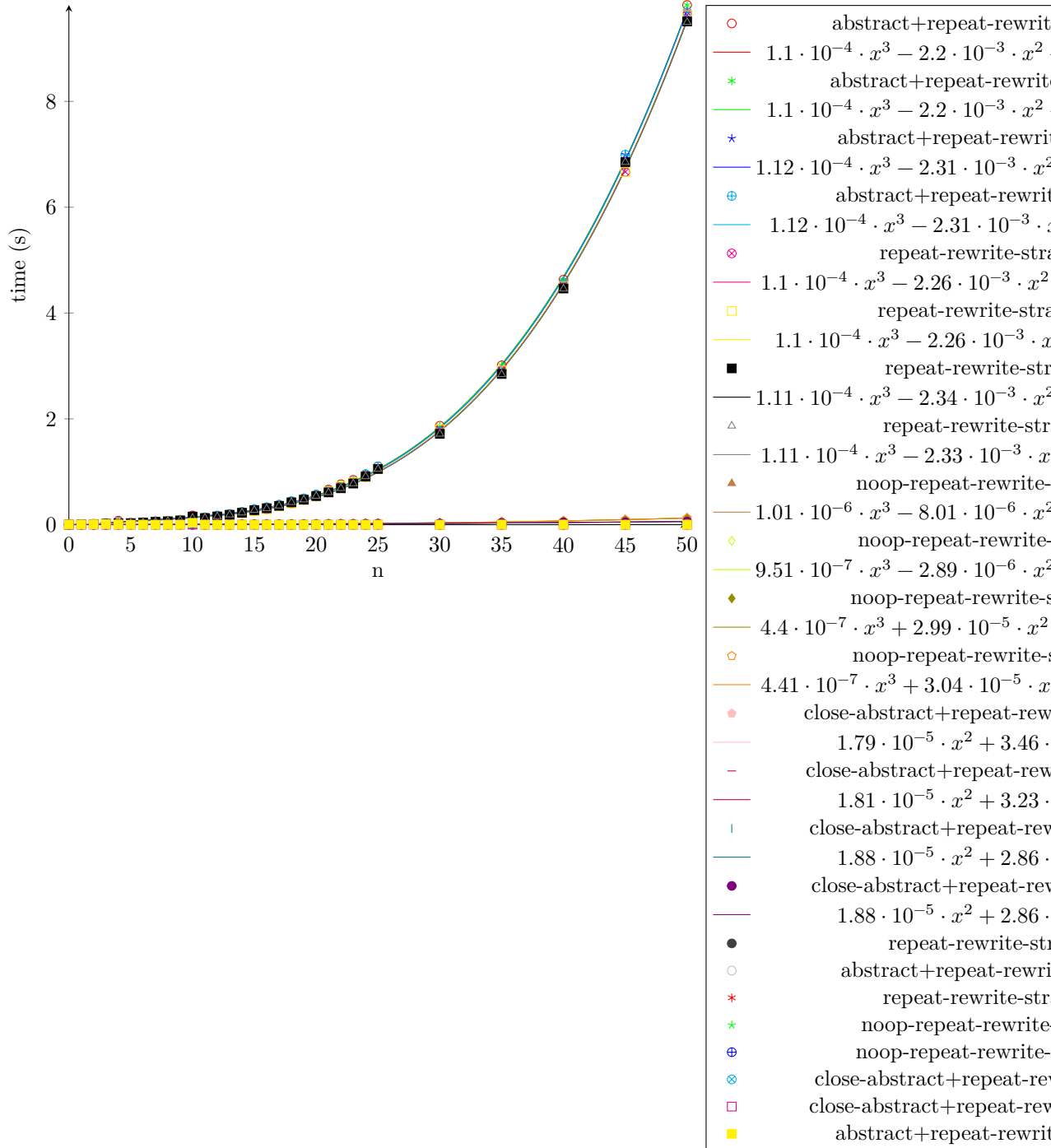Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

The figure legend contains the following entries:

noop-repeat-rewrite-s

$7.9 \cdot 10^{-7} \cdot x^3 - 6.39 \cdot 10^{-6} \cdot x^2$

noop-repeat-rewrite-s

$7.88 \cdot 10^{-7} \cdot x^3 - 6.11 \cdot 10^{-6} \cdot x^2$

noop-repeat-rewrite-

$8.24 \cdot 10^{-7} \cdot x^3 - 1.57 \cdot 10^{-5} \cdot x^2$

noop-repeat-rewrite-

$8.22 \cdot 10^{-7} \cdot x^3 - 1.53 \cdot 10^{-5} \cdot x^2$

noop-repeat-seto

$8 \cdot 10^{-7} \cdot x^3 - 1.39 \cdot 10^{-5} \cdot x^2$

noop-repeat-seto

$7.92 \cdot 10^{-7} \cdot x^3 - 1.17 \cdot 10^{-5} \cdot x^2$

noop-repeat-rewrite-

noop-repeat-rewrite-

noop-repeat-set

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

5
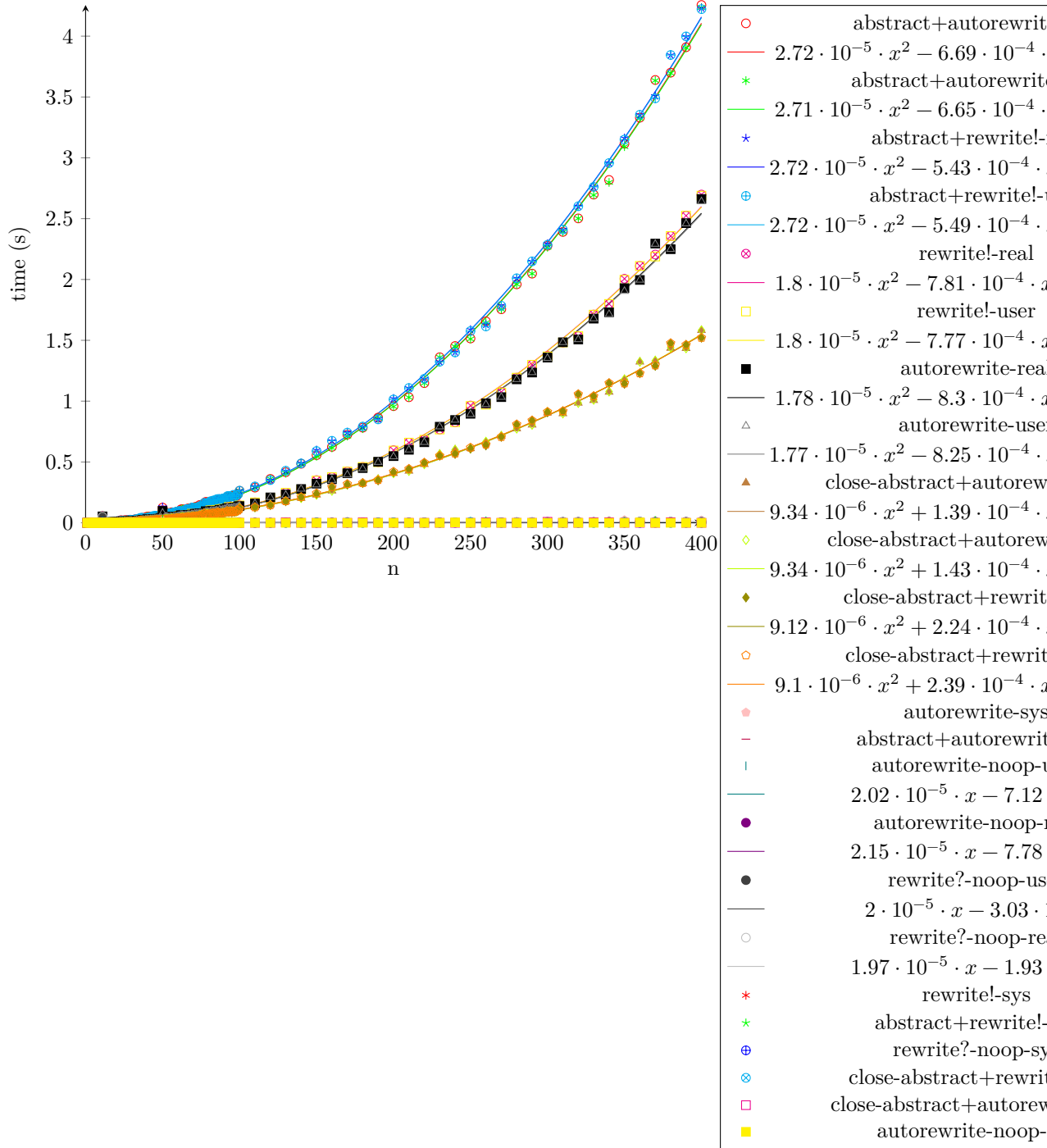
Figure 6: timing-rewrite-repeated-app-autorewrite

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

The legend of the figure contains the following entries:

- autorewrite-noop-... $\quad$ $3.47 \cdot 10^{-8} \cdot x^2 + 4.52 \cdot 10^{-5} \cdot$
- autorewrite-noop-u... $\quad$ $3.47 \cdot 10^{-8} \cdot x^2 + 4.49 \cdot 10^{-5} \cdot$
- try-rewrite-noop-... $\quad$ $3.47 \cdot 10^{-8} \cdot x^2 + 4.41 \cdot 10^{-5} \cdot$
- try-rewrite-noop-u... $\quad$ $3.47 \cdot 10^{-8} \cdot x^2 + 4.42 \cdot 10^{-5} \cdot$
- try-rewrite?-noop-u... $\quad$ $3.35 \cdot 10^{-8} \cdot x^2 + 4.87 \cdot 10^{-5} \cdot$
- try-rewrite?-noop-... $\quad$ $3.35 \cdot 10^{-8} \cdot x^2 + 4.87 \cdot 10^{-5} \cdot$
- try-rewrite!-noop-... $\quad$ $3.39 \cdot 10^{-8} \cdot x^2 + 4.77 \cdot 10^{-5} \cdot$
- try-rewrite!-noop-u... $\quad$ $3.39 \cdot 10^{-8} \cdot x^2 + 4.77 \cdot 10^{-5} \cdot$
- try-ssr-rewrite?-noop... $\quad$ $4.53 \cdot 10^{-7} \cdot x - 2.13$
- try-ssr-rewrite?-noop... $\quad$ $4.53 \cdot 10^{-7} \cdot x - 2.13$
- try-ssr-rewrite-noop... $\quad$ $4.25 \cdot 10^{-7} \cdot x - 1.9 \cdot$
- try-ssr-rewrite-noop... $\quad$ $4.67 \cdot 10^{-7} \cdot x - 2.15$
- try-ssr-rewrite!-noop... $\quad$ $4.94 \cdot 10^{-7} \cdot x - 1.72$
- try-ssr-rewrite!-noop... $\quad$ $4.99 \cdot 10^{-7} \cdot x - 1.61$
- try-rewrite-noop-s...
- try-rewrite!-noop-...
- try-ssr-rewrite?-noo...
- try-ssr-rewrite-noop...
- try-ssr-rewrite!-noo...
- try-rewrite?-noop-...
- autorewrite-noop-...

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

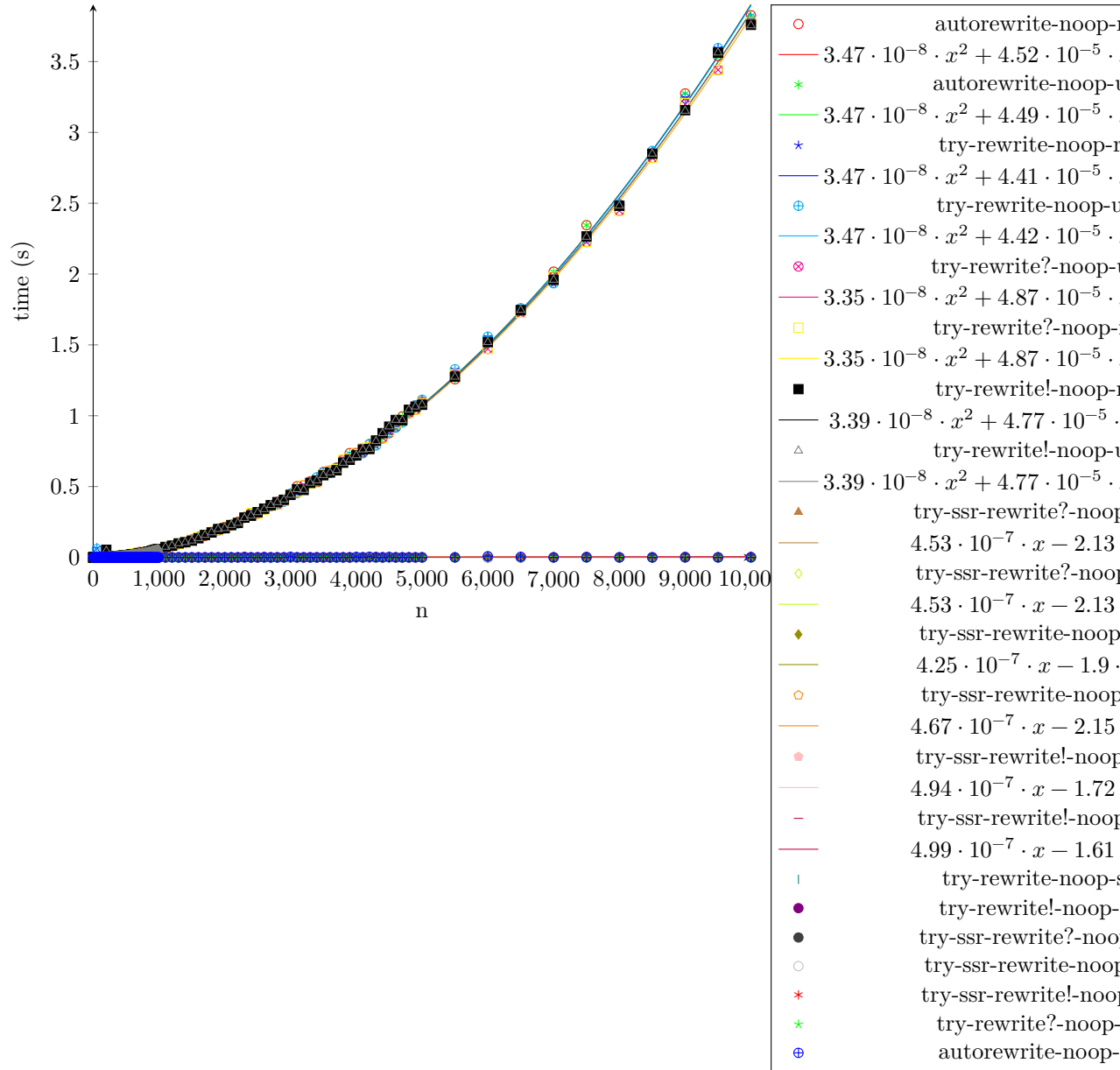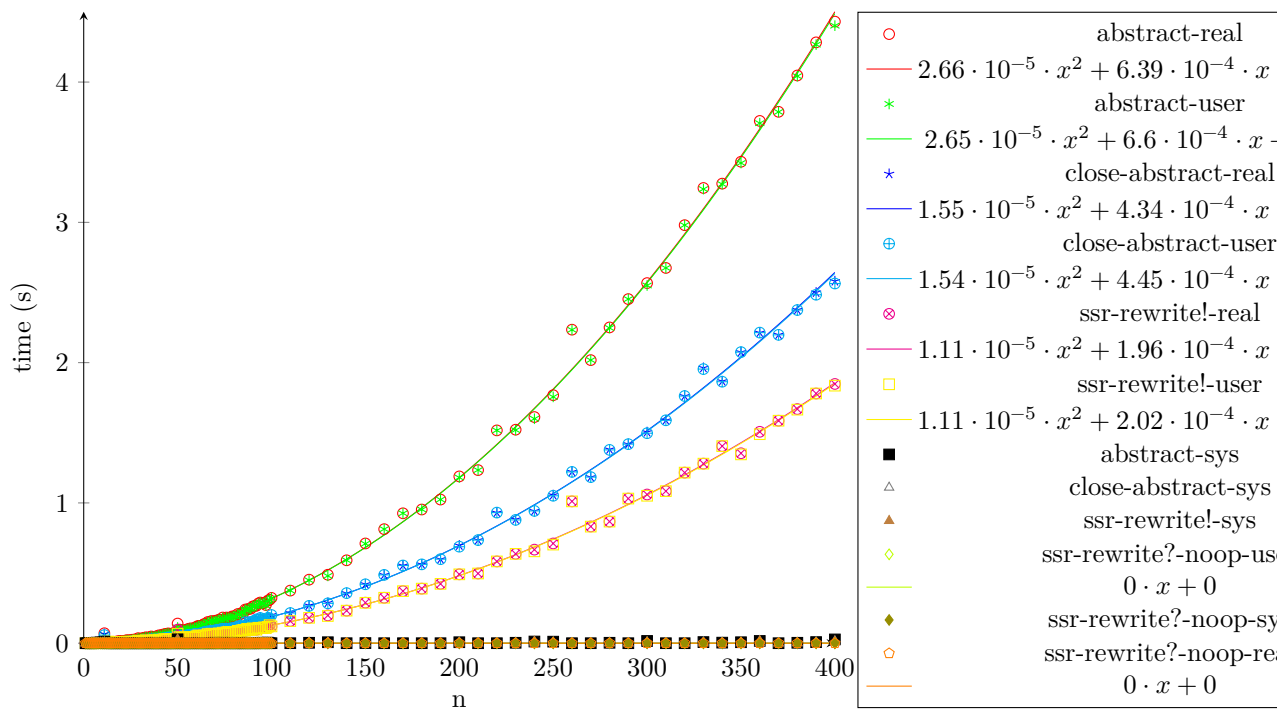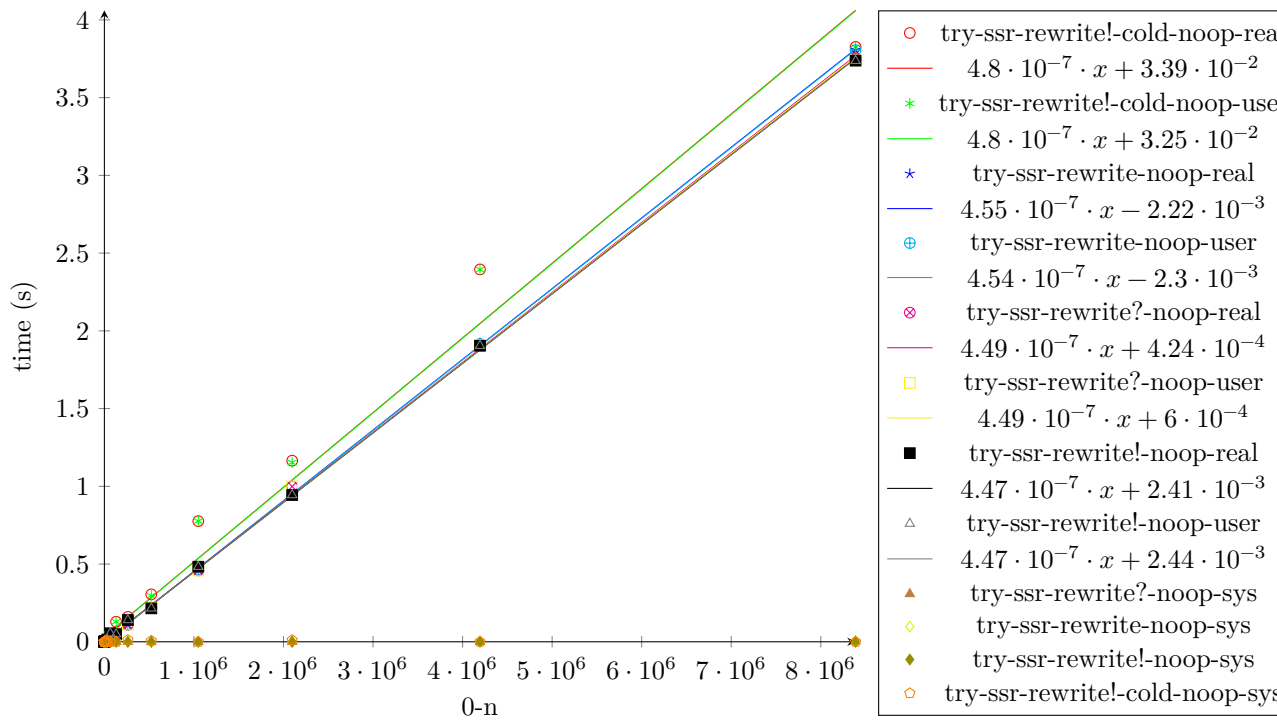Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1
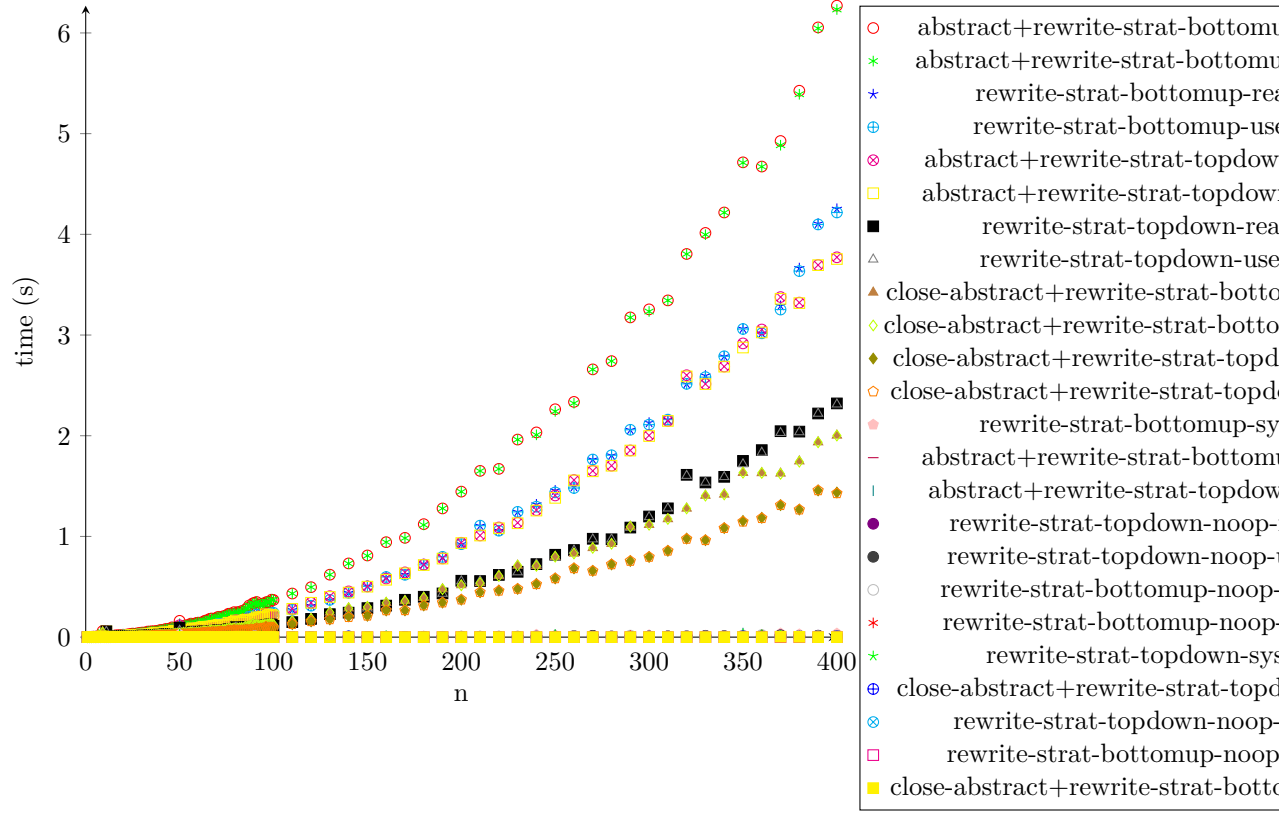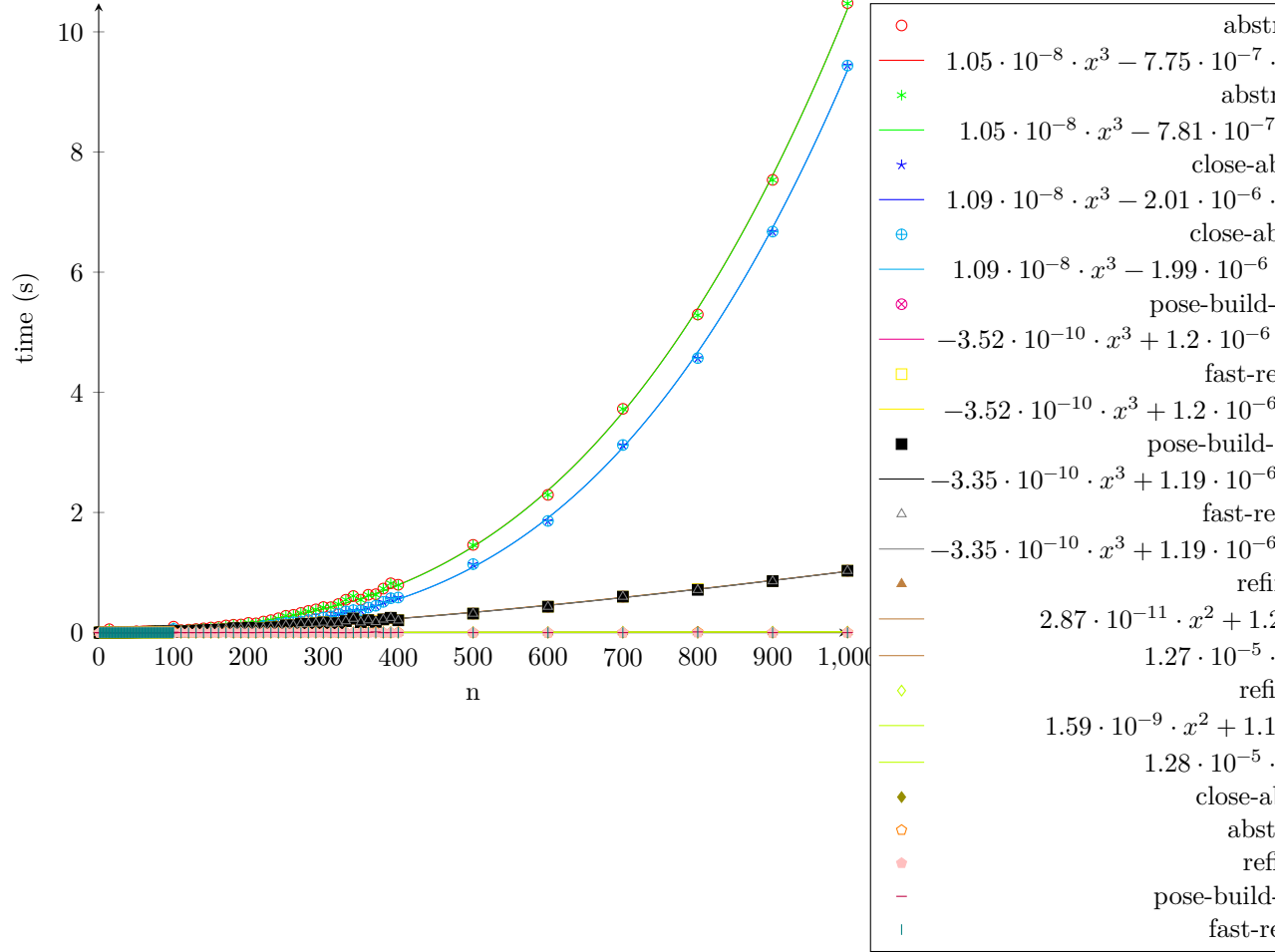
Figure 10: timing-rewrite-repeated-app-rewrite-strat

Figure 11: timing-rewrite-repeated-app-fast-rewrite
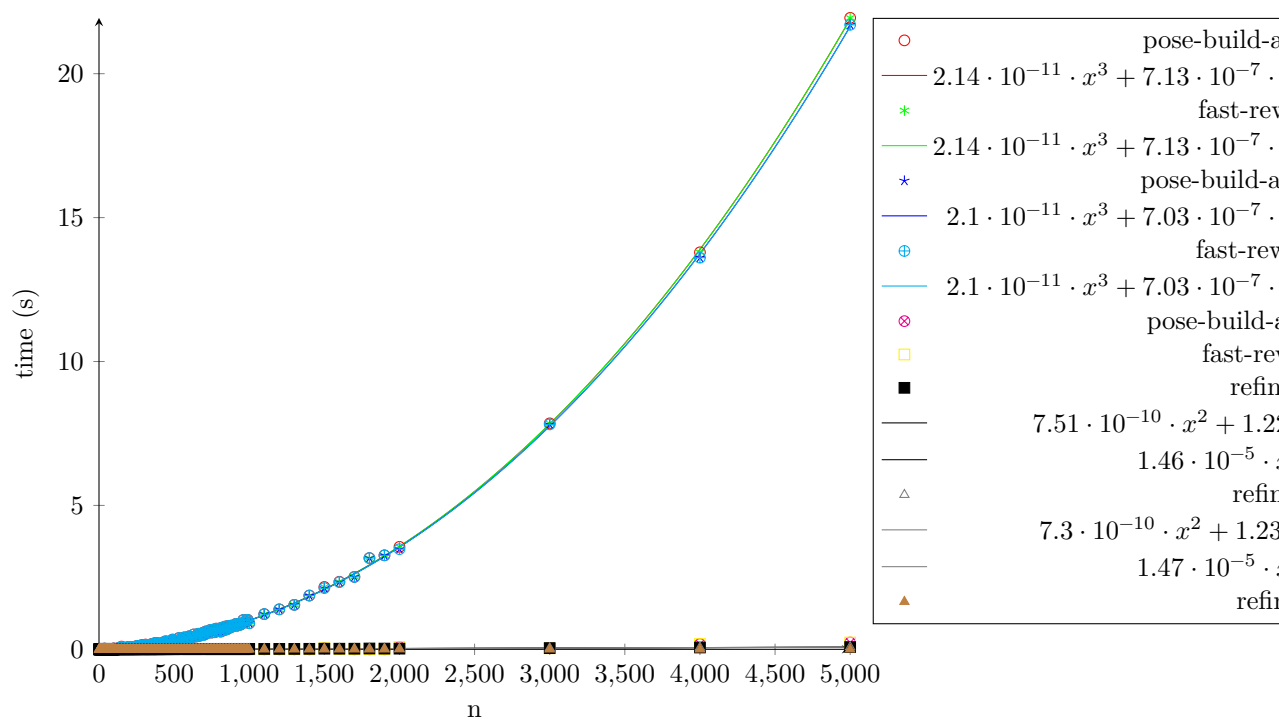
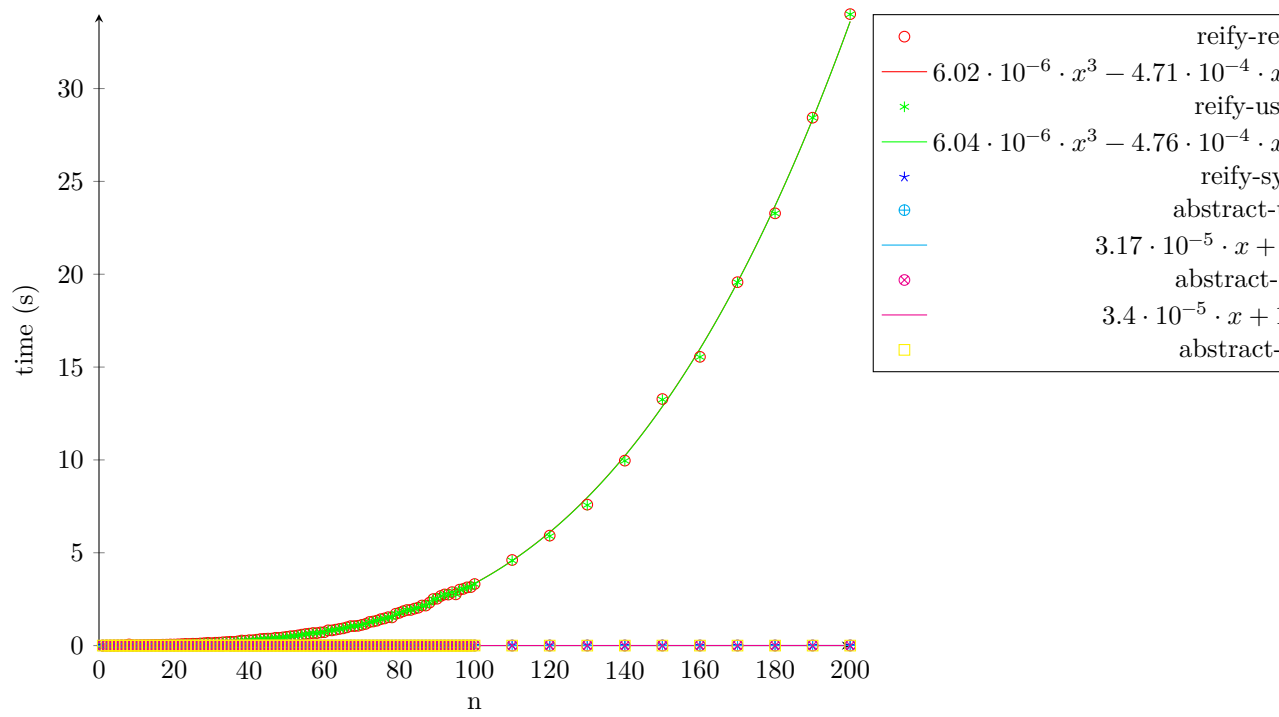Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract
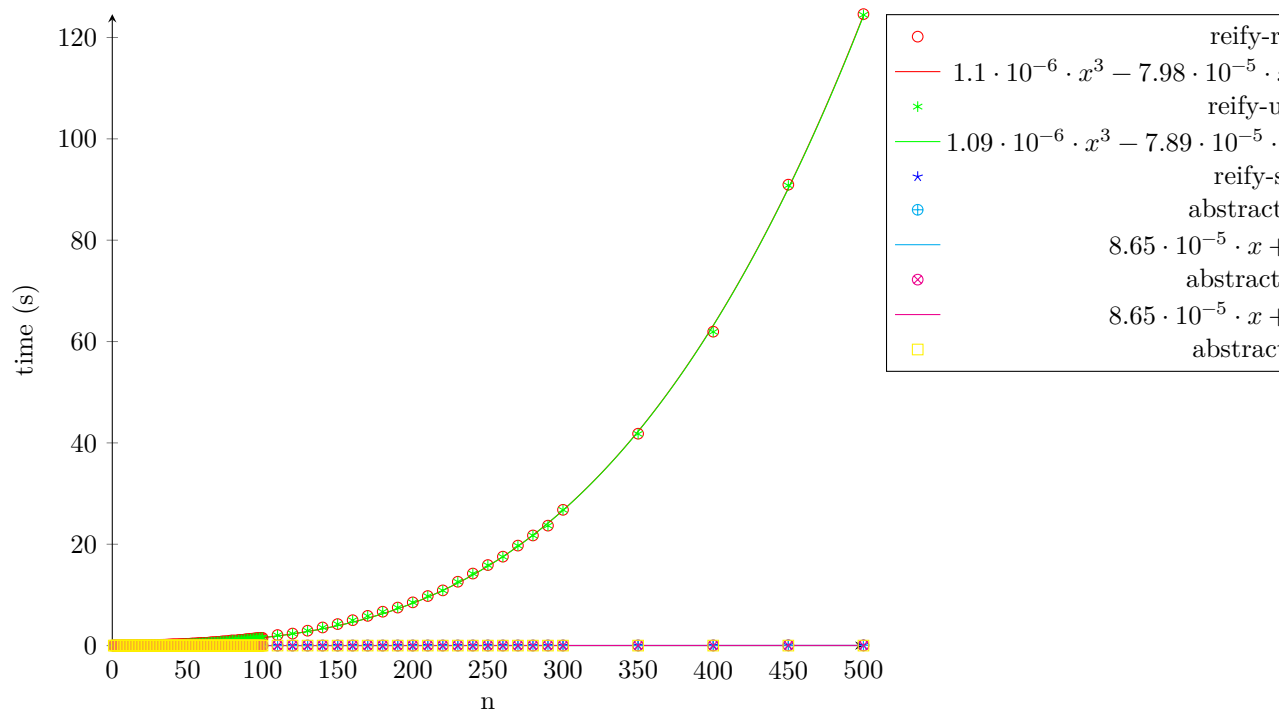
Figure 13: timing-typeclass-reification-let-in-HOAS

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