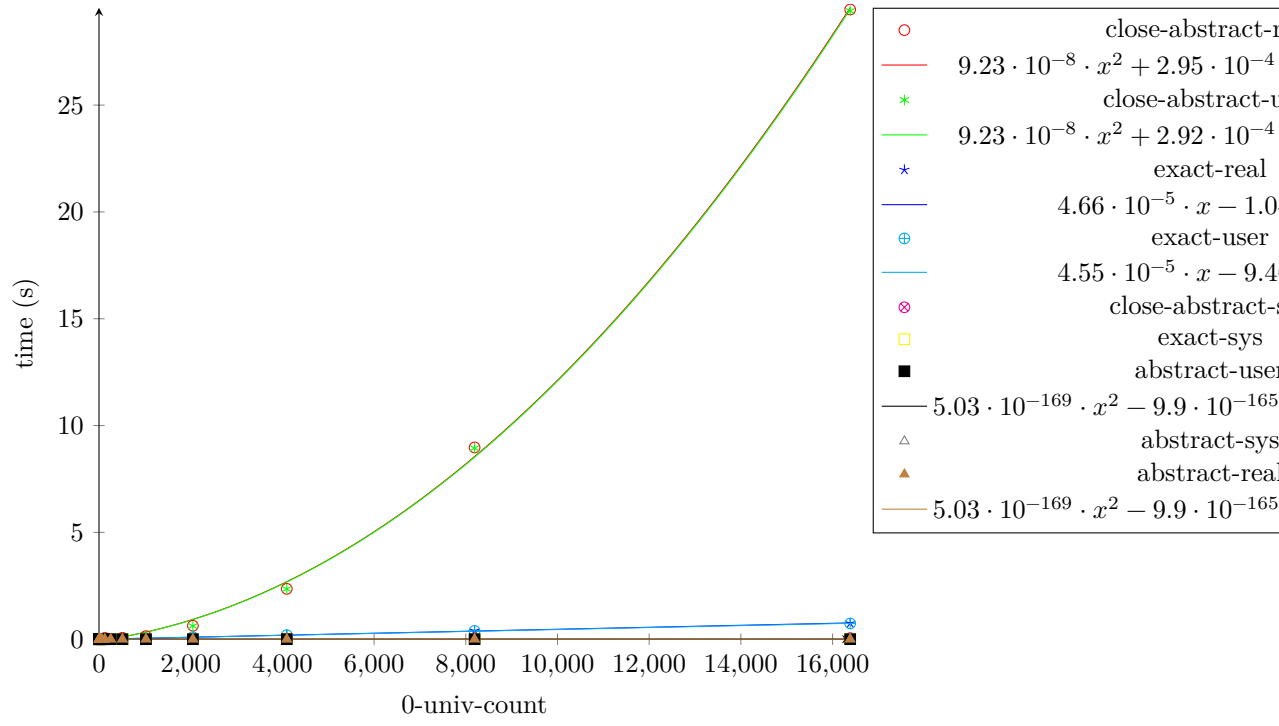Figure 1: timing-pattern

1

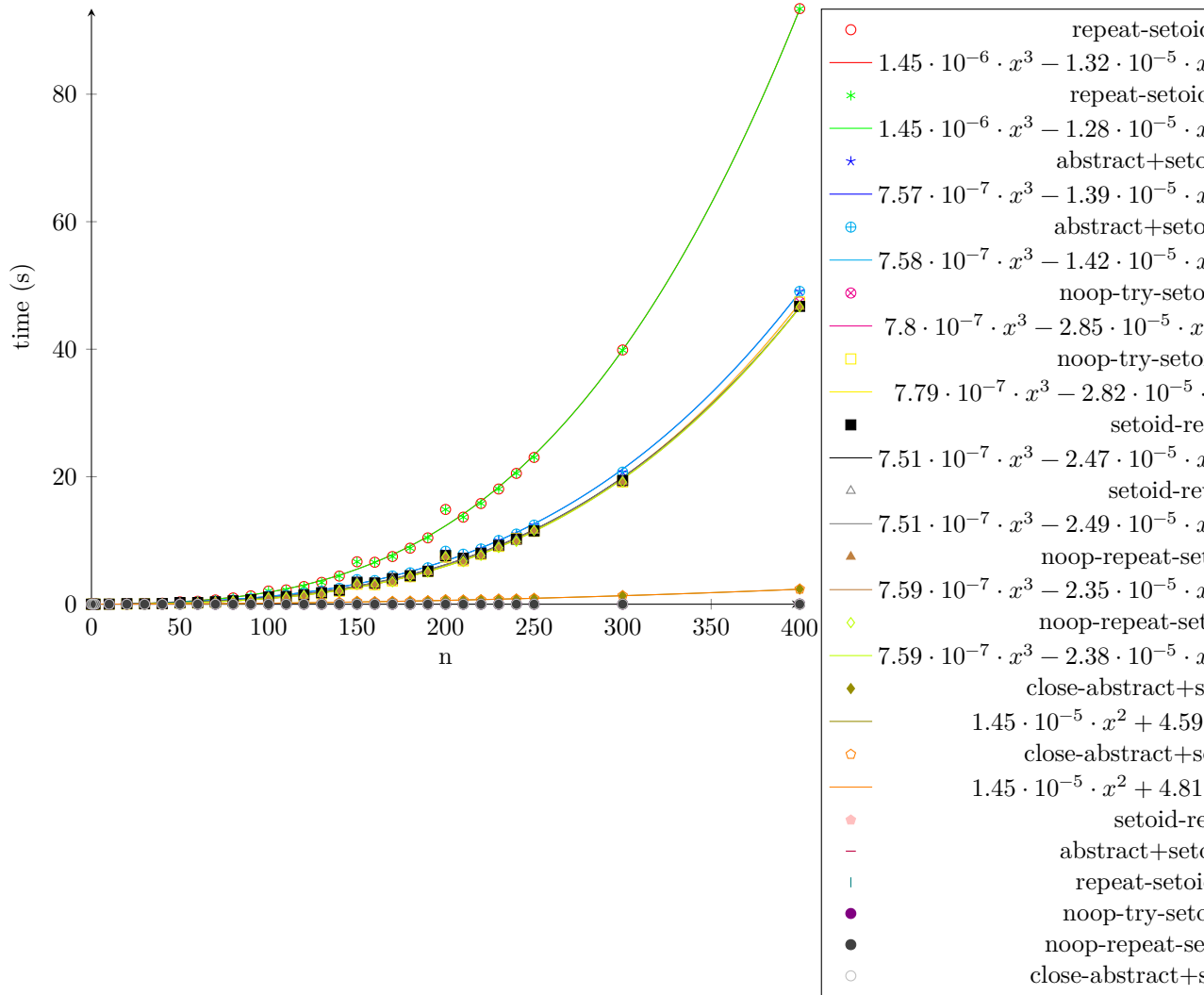Figure 2: timing-n-polymorphic-universes param-1-n 0

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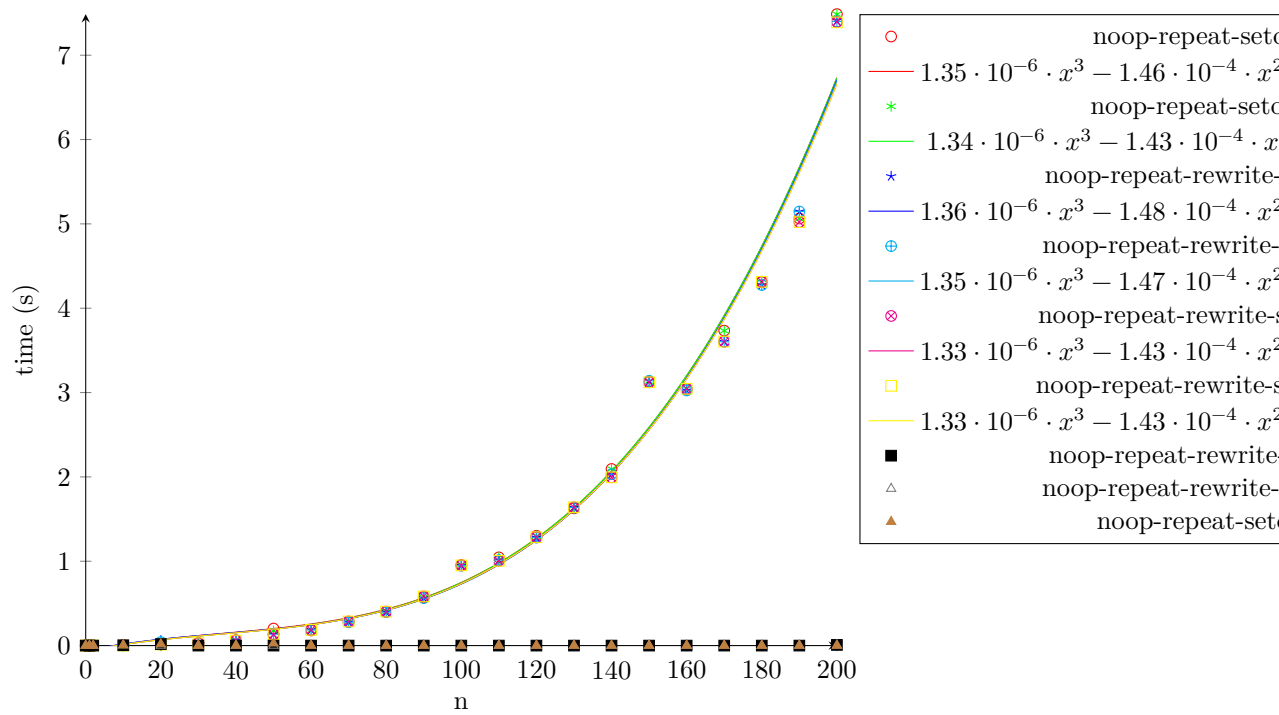
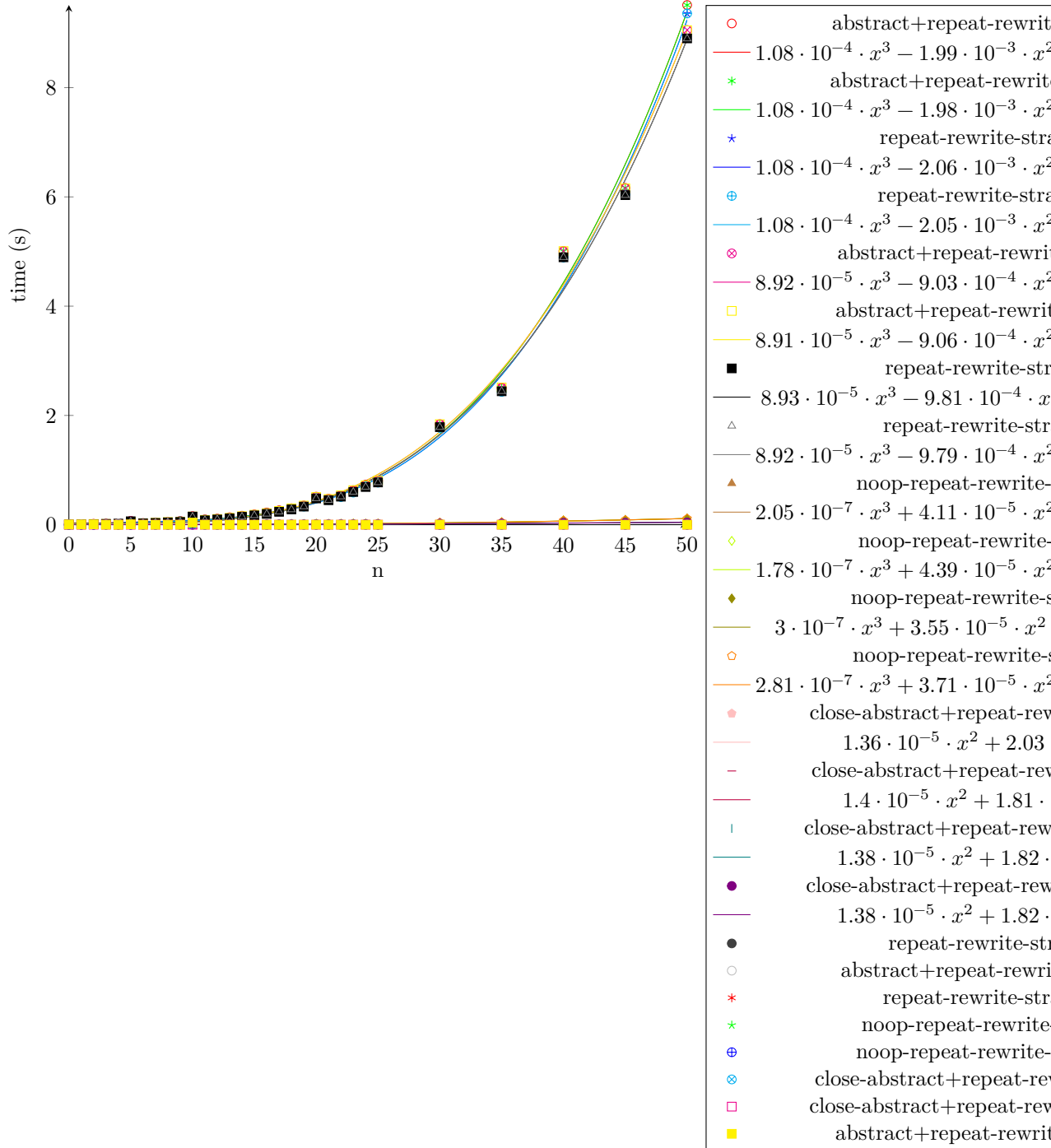Figure 4: timing-repeat-setoid-rewrite-under-binders-noop
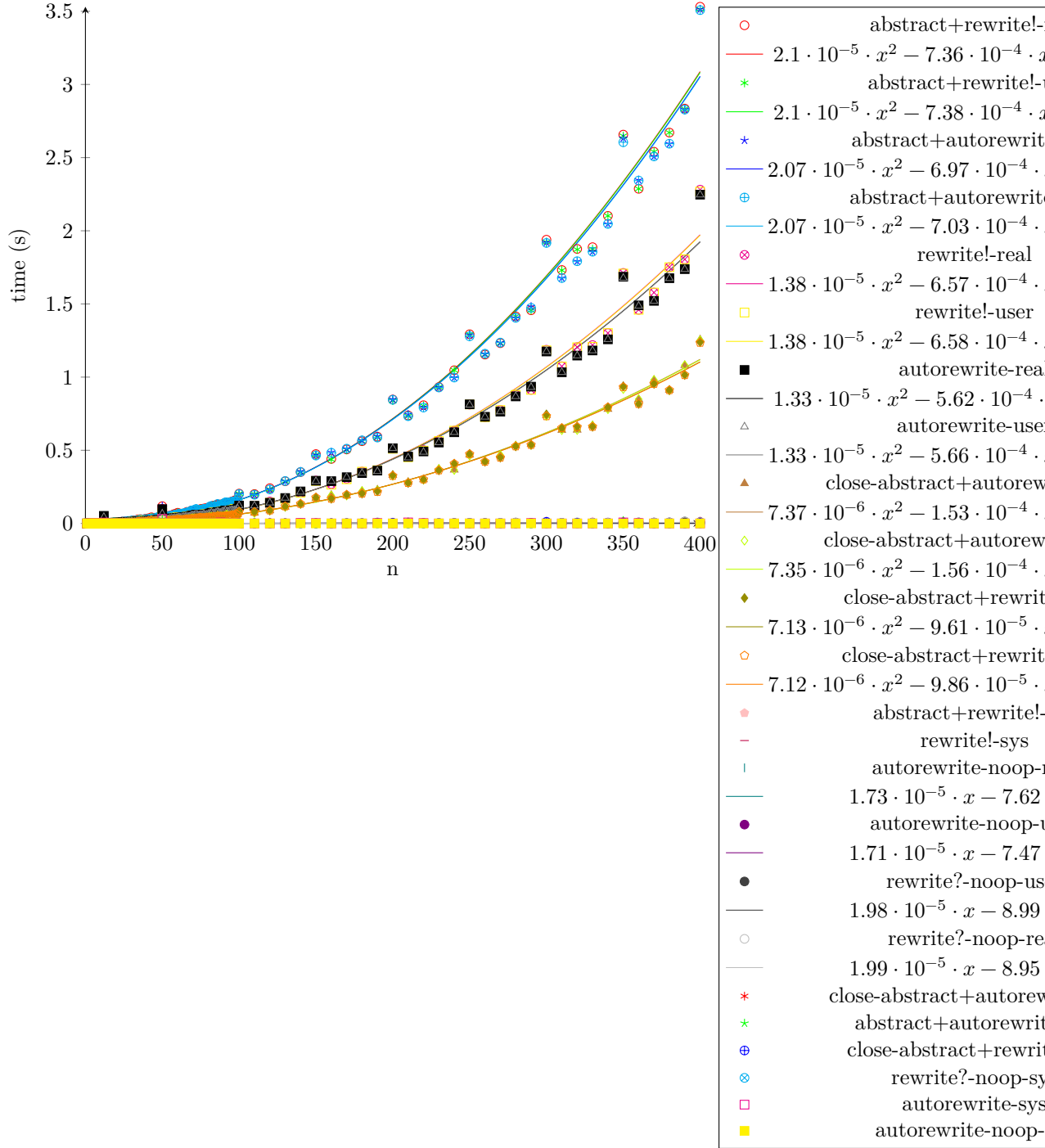
4

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

5

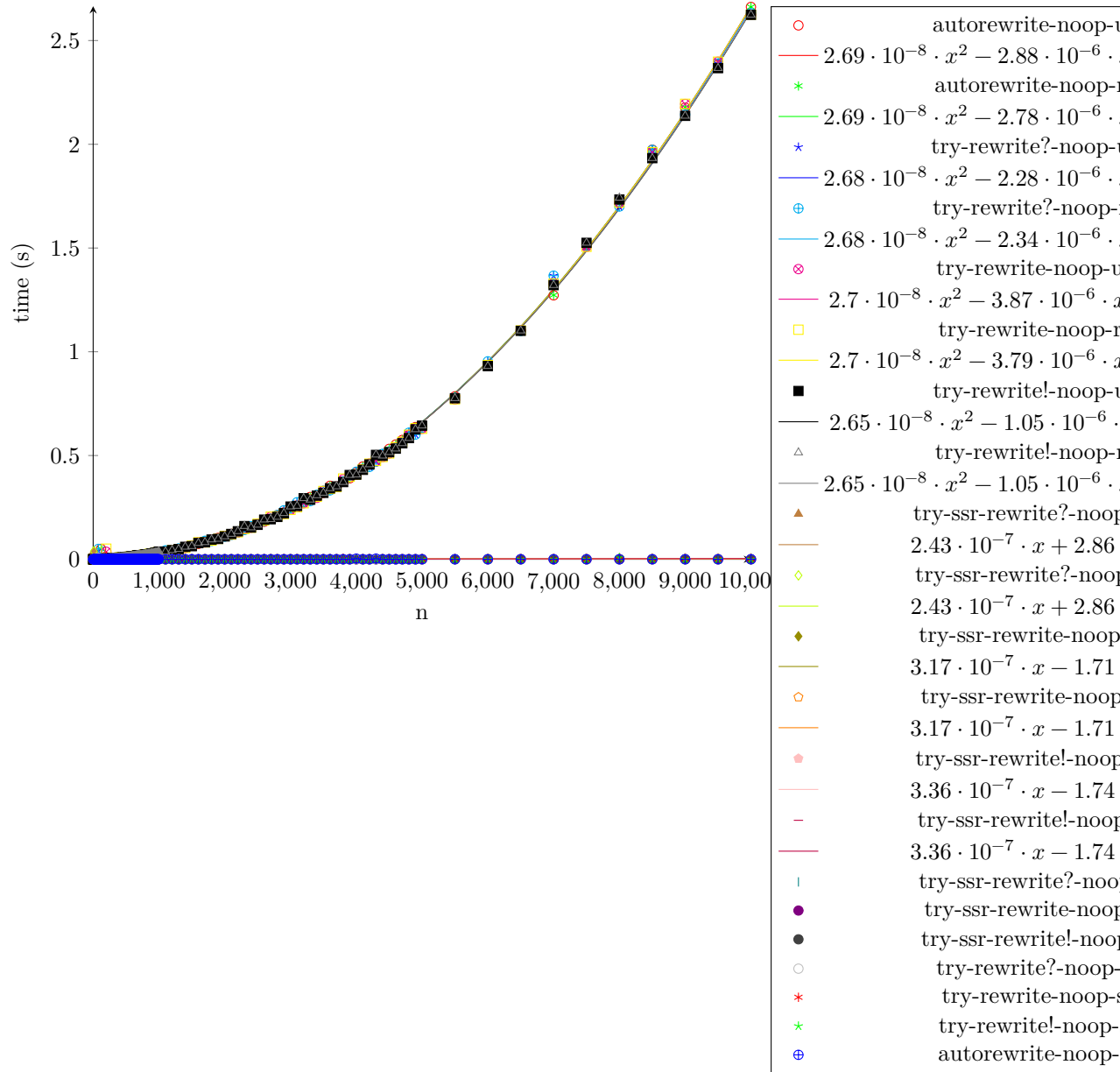Figure 6: timing-rewrite-repeated-app-autorewrite

6

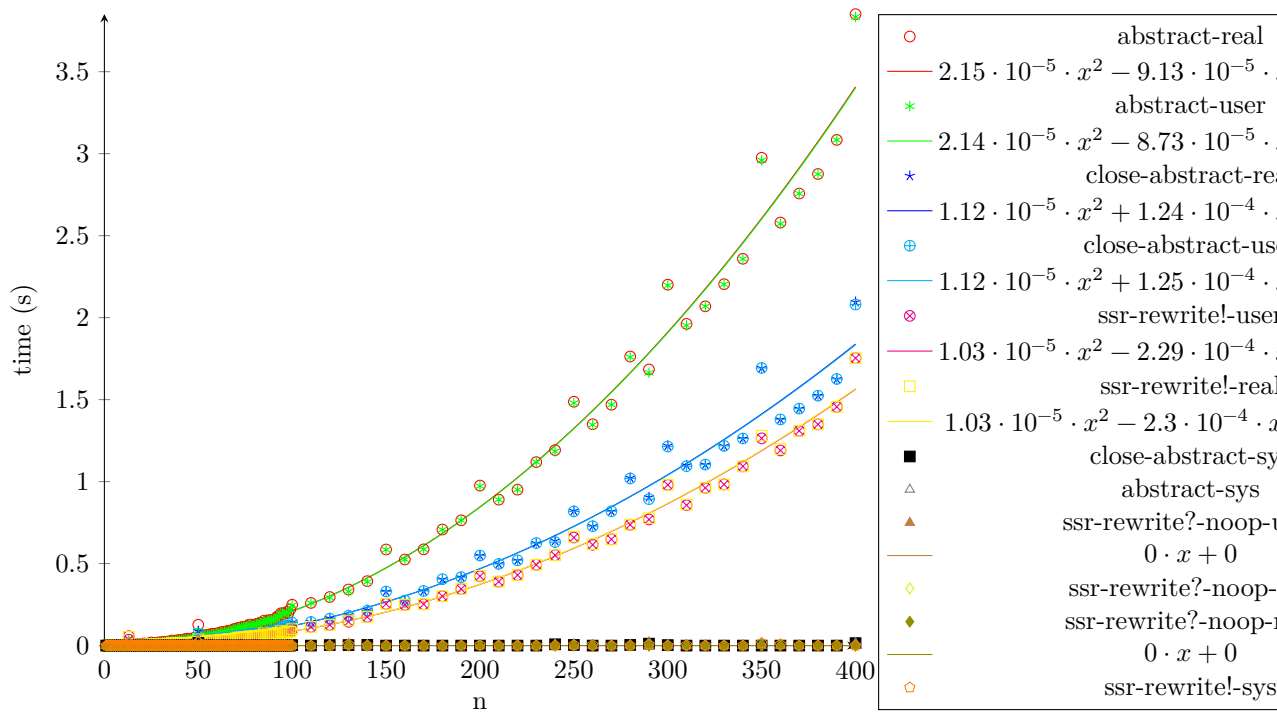Figure 7: timing-rewrite-repeated-app-autorewrite-noop

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

8
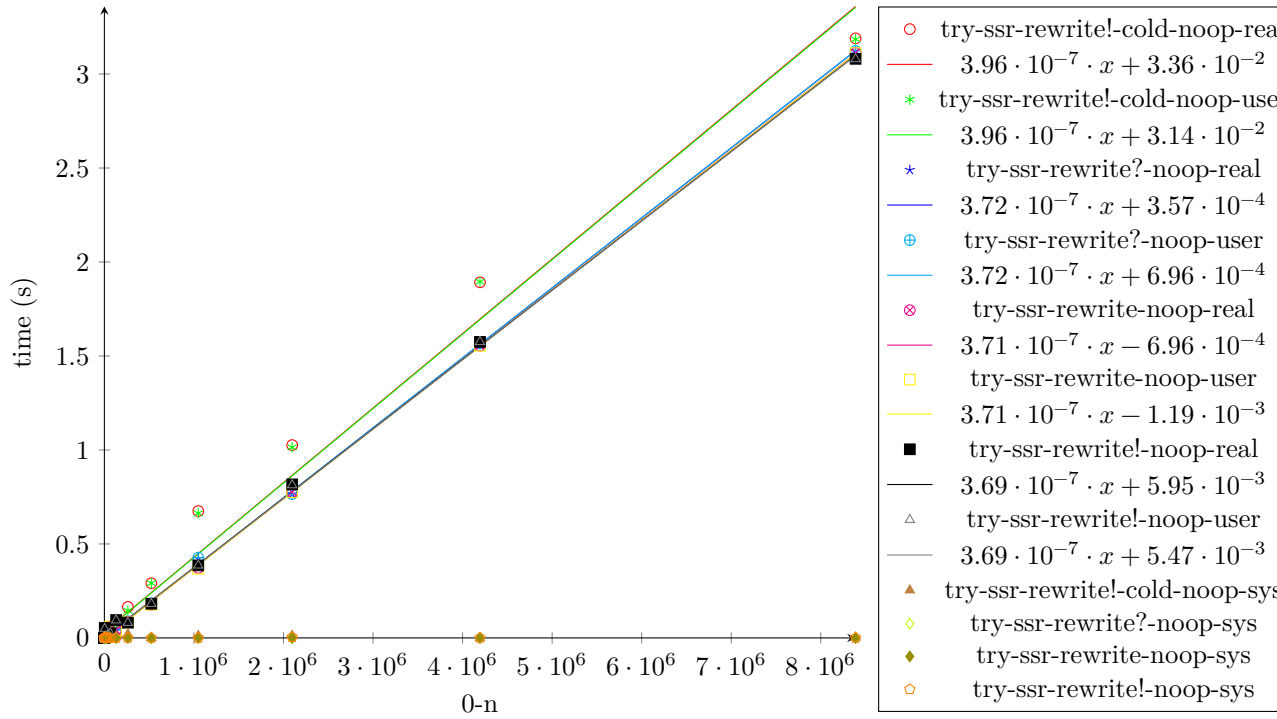
Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

The legend of the figure contains:

- try-ssr-rewrite!-cold-noop-real
  $3.96 \cdot 10^{-7} \cdot x + 3.36 \cdot 10^{-2}$
- try-ssr-rewrite!-cold-noop-user
  $3.96 \cdot 10^{-7} \cdot x + 3.14 \cdot 10^{-2}$
- try-ssr-rewrite?-noop-real
  $3.72 \cdot 10^{-7} \cdot x + 3.57 \cdot 10^{-4}$
- try-ssr-rewrite?-noop-user
  $3.72 \cdot 10^{-7} \cdot x + 6.96 \cdot 10^{-4}$
- try-ssr-rewrite-noop-real
  $3.71 \cdot 10^{-7} \cdot x - 6.96 \cdot 10^{-4}$
- try-ssr-rewrite-noop-user
  $3.71 \cdot 10^{-7} \cdot x - 1.19 \cdot 10^{-3}$
- try-ssr-rewrite!-noop-real
  $3.69 \cdot 10^{-7} \cdot x + 5.95 \cdot 10^{-3}$
- try-ssr-rewrite!-noop-user
  $3.69 \cdot 10^{-7} \cdot x + 5.47 \cdot 10^{-3}$
- try-ssr-rewrite!-cold-noop-sys
- try-ssr-rewrite?-noop-sys
- try-ssr-rewrite-noop-sys
- try-ssr-rewrite!-noop-sys

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

The legend entries (partially cut off at the right edge) are:

- abstract+rewrite-strat-bottomu...
- abstract+rewrite-strat-bottomu...
- rewrite-strat-bottomup-rea...
- rewrite-strat-bottomup-use...
- abstract+rewrite-strat-topdow...
- abstract+rewrite-strat-topdow...
- rewrite-strat-topdown-rea...
- rewrite-strat-topdown-use...
- close-abstract+rewrite-strat-botto...
- close-abstract+rewrite-strat-botto...
- close-abstract+rewrite-strat-topd...
- close-abstract+rewrite-strat-topd...
- rewrite-strat-bottomup-sy...
- abstract+rewrite-strat-bottomu...
- abstract+rewrite-strat-topdow...
- close-abstract+rewrite-strat-topd...
- rewrite-strat-topdown-noop-...
- rewrite-strat-topdown-noop-...
- rewrite-strat-bottomup-noop-...
- rewrite-strat-bottomup-noop-...
- rewrite-strat-topdown-sys...
- rewrite-strat-topdown-noop-...
- rewrite-strat-bottomup-noop...
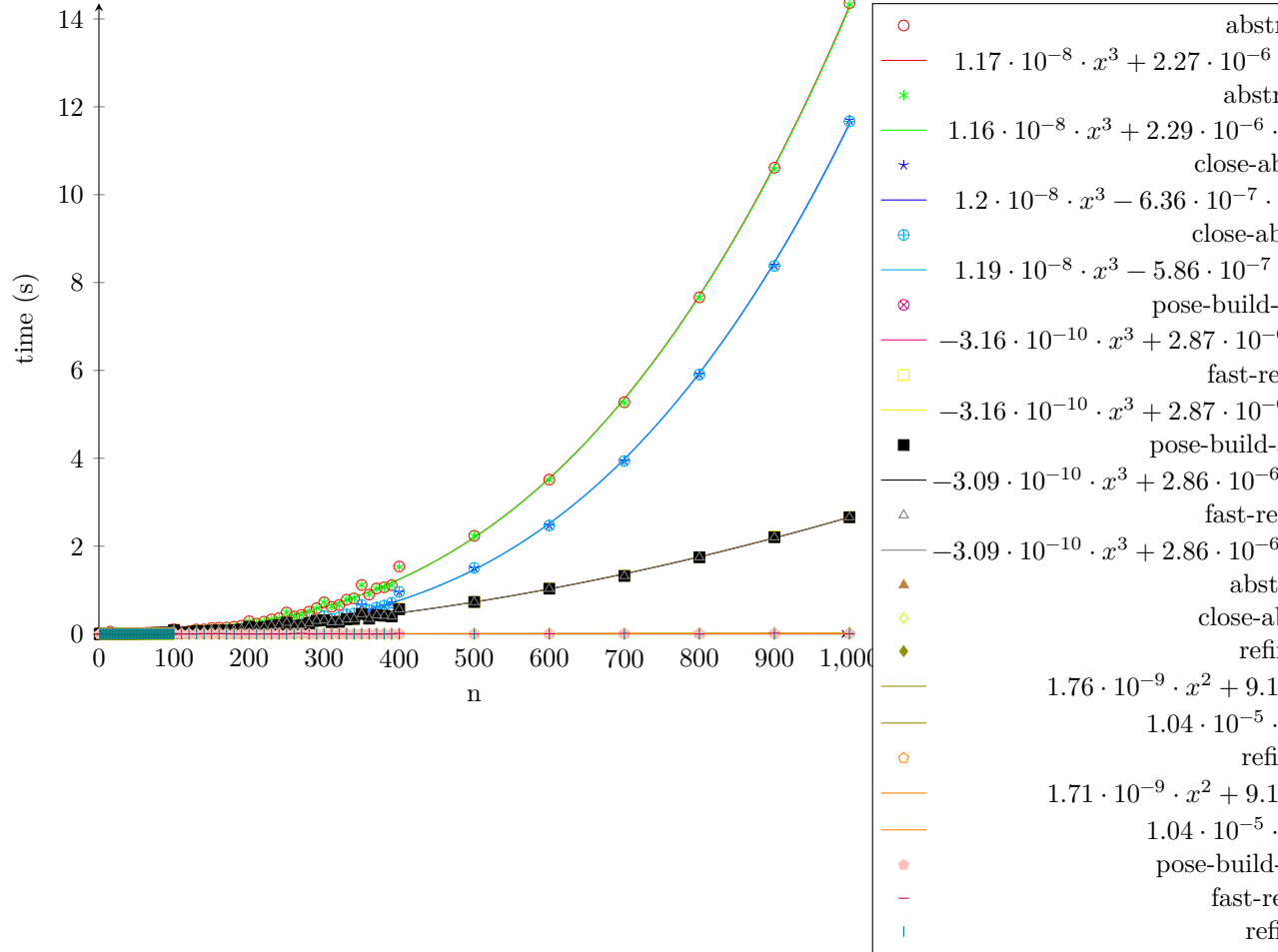- close-abstract+rewrite-strat-botto...

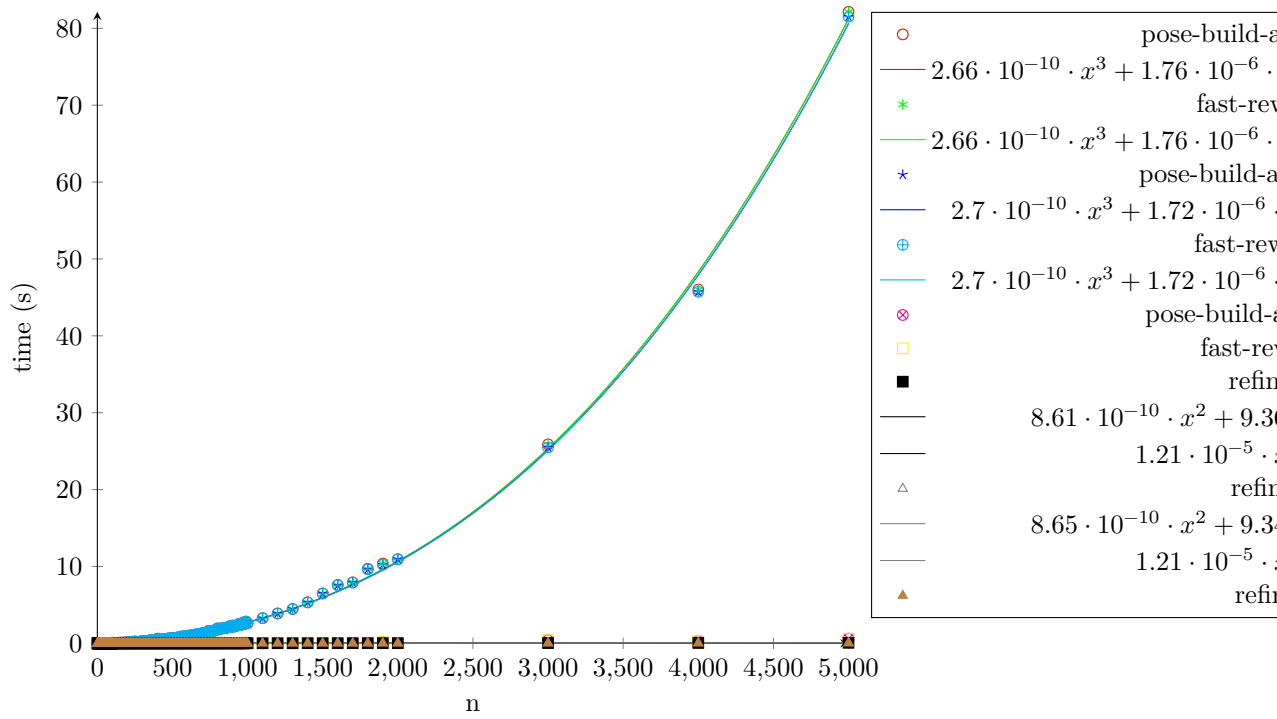Figure 11: timing-rewrite-repeated-app-fast-rewrite

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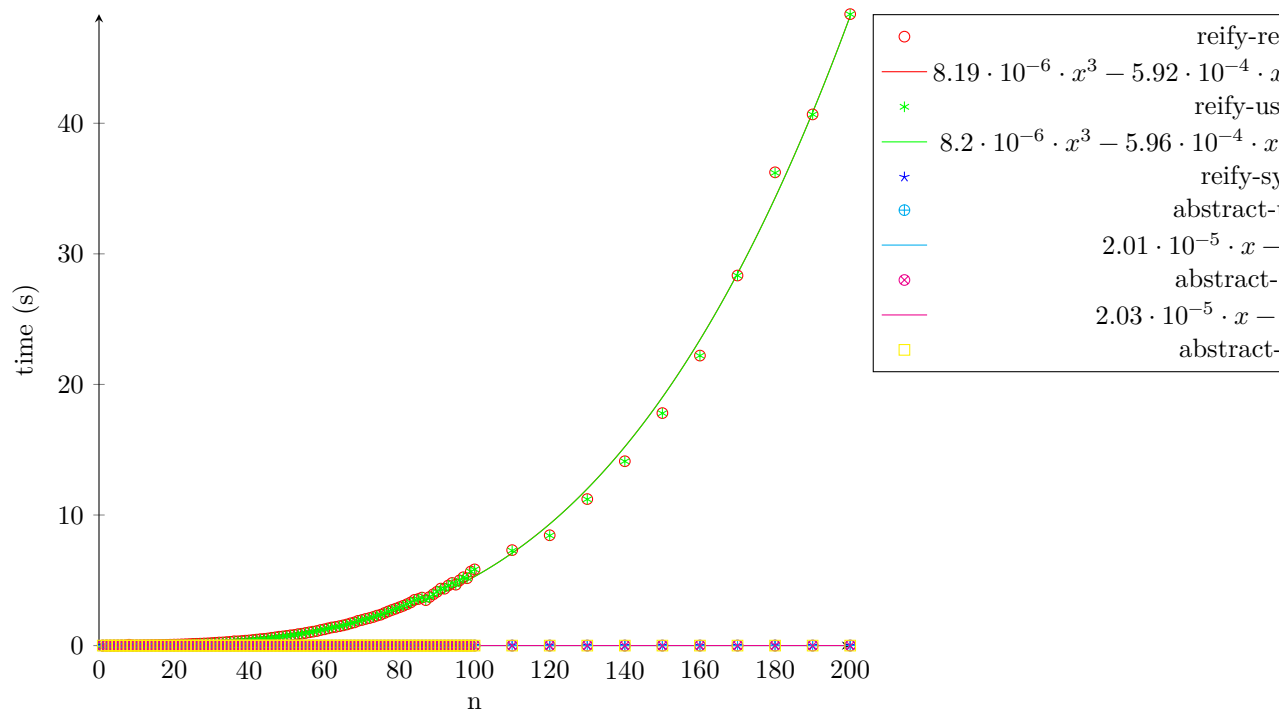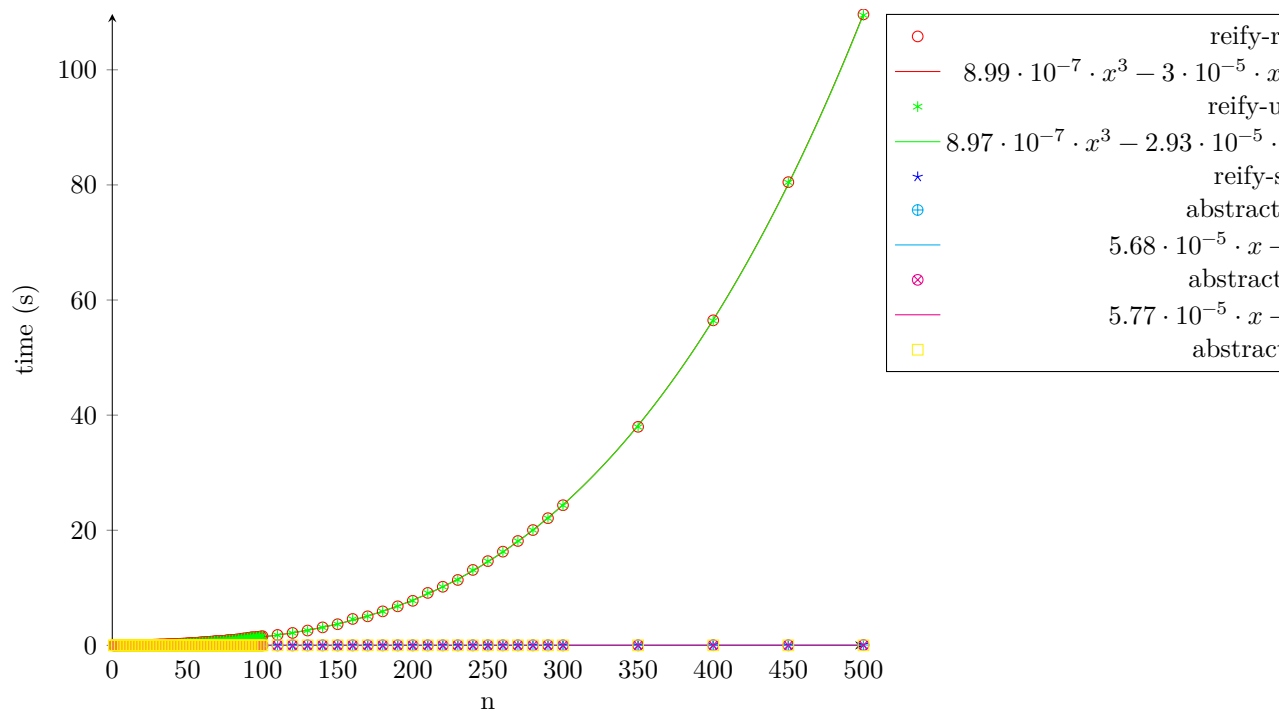
Figure 13: timing-typeclass-reification-let-in-HOAS

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