Figure 1: timing-pattern

Figure 2: timing-n-polymorphic-universes param-1-n 0
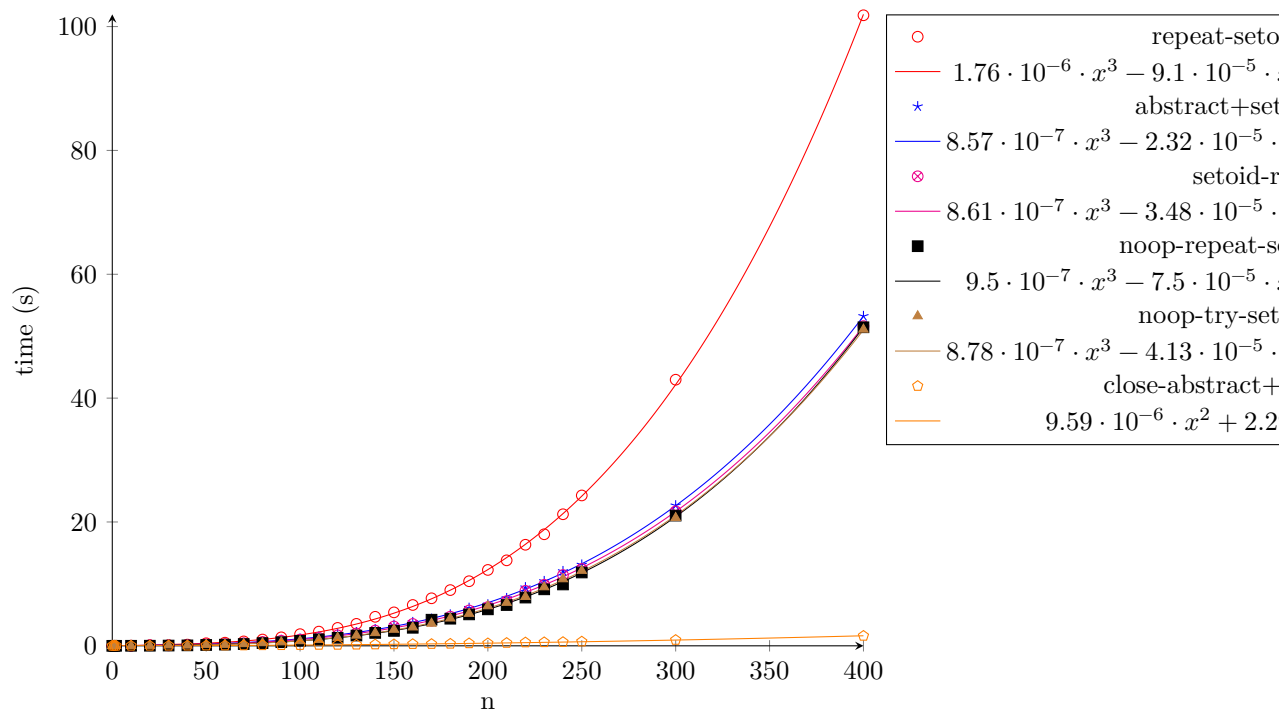
100

80

60

time (s)

40

20

0

0   50   100   150   200   250   300   350   400

n

repeat-seto

$1.76 \cdot 10^{-6} \cdot x^3 - 9.1 \cdot 10^{-5} \cdot$

abstract+set

$8.57 \cdot 10^{-7} \cdot x^3 - 2.32 \cdot 10^{-5} \cdot$

setoid-r

$8.61 \cdot 10^{-7} \cdot x^3 - 3.48 \cdot 10^{-5} \cdot$

noop-repeat-s

$9.5 \cdot 10^{-7} \cdot x^3 - 7.5 \cdot 10^{-5} \cdot$

noop-try-set

$8.78 \cdot 10^{-7} \cdot x^3 - 4.13 \cdot 10^{-5} \cdot$

close-abstract+

$9.59 \cdot 10^{-6} \cdot x^2 + 2.2$

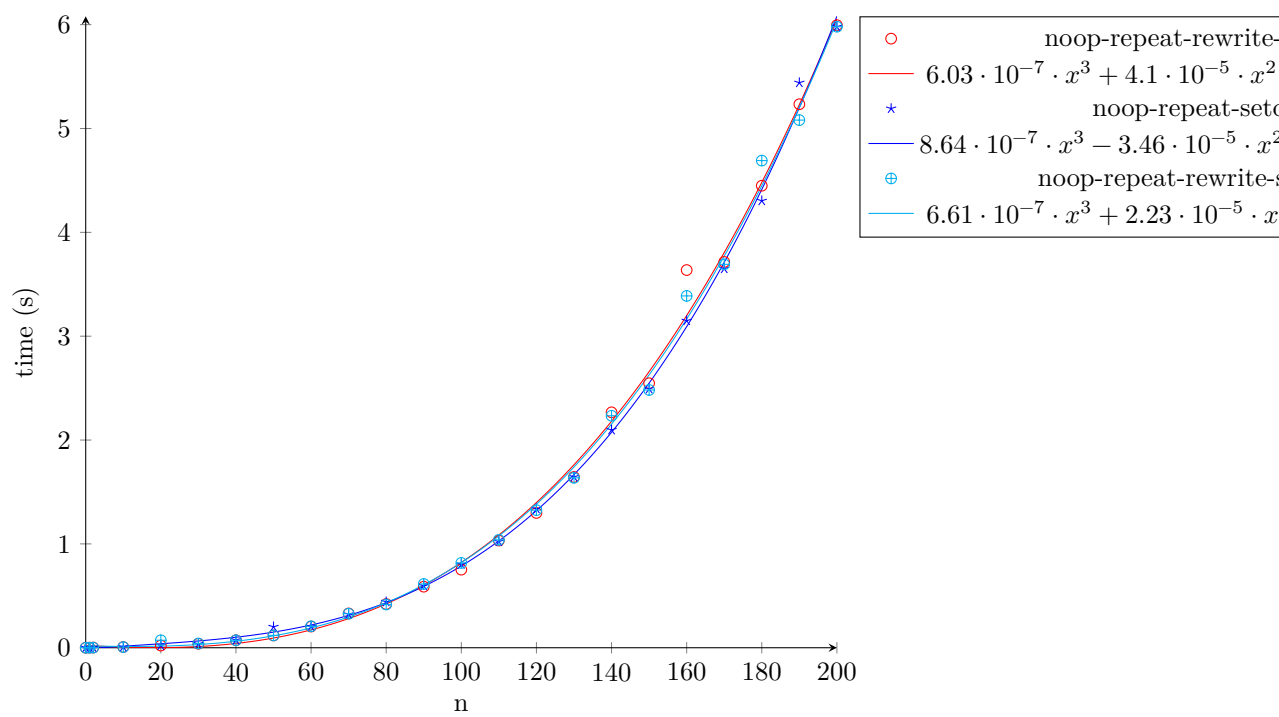Figure 3: timing-repeat-setoid-rewrite-under-binders

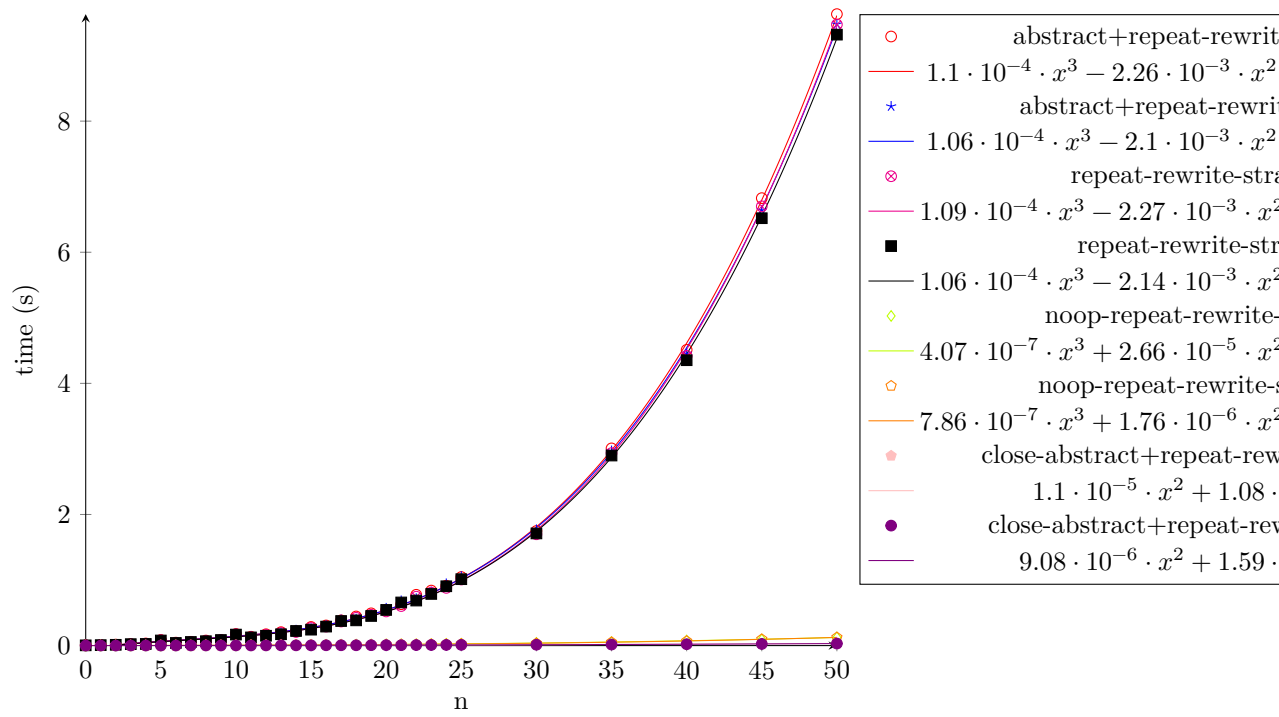Figure 4: timing-repeat-setoid-rewrite-under-binders-noop

4

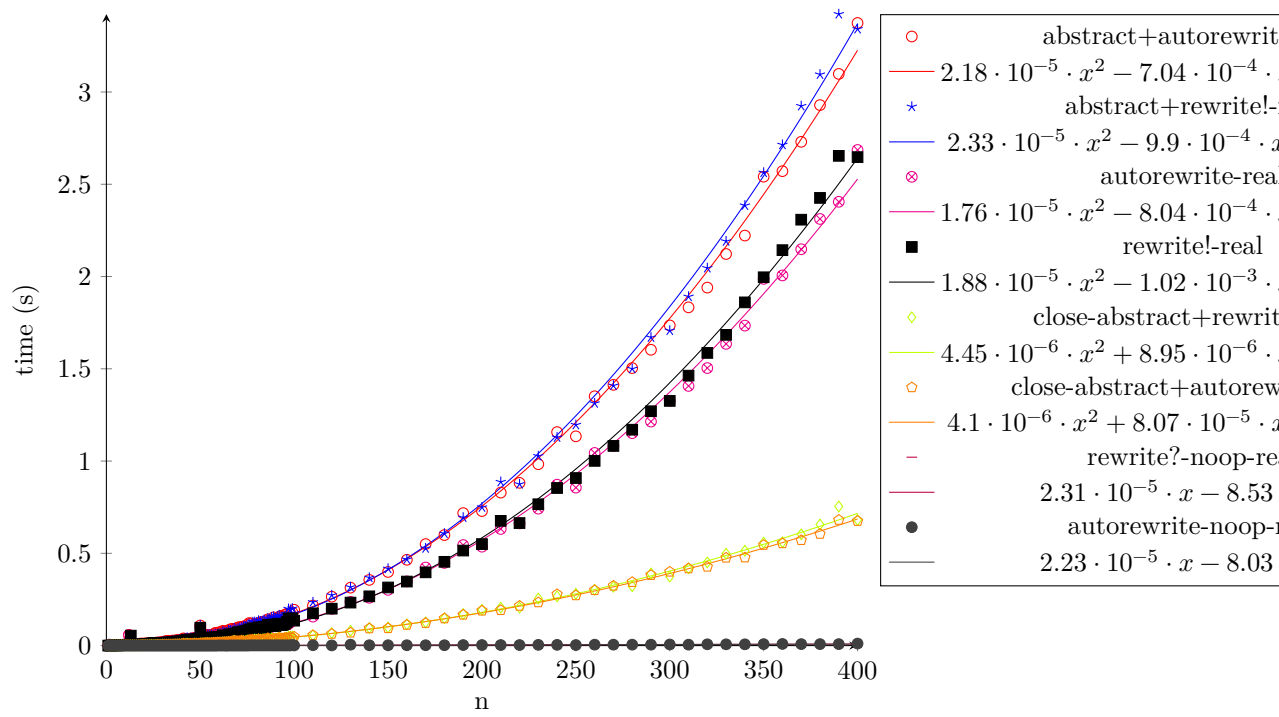Figure 5: timing-rewrite-strat-under-binders

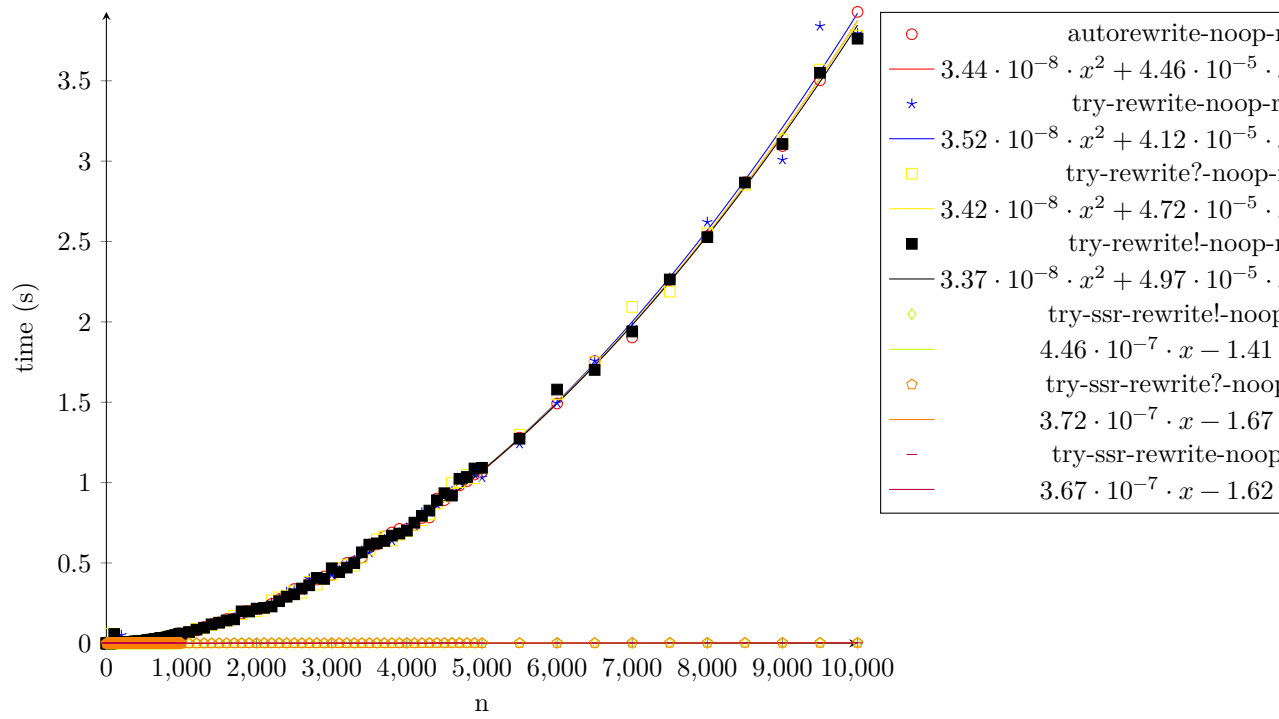Figure 6: timing-rewrite-repeated-app-autorewrite

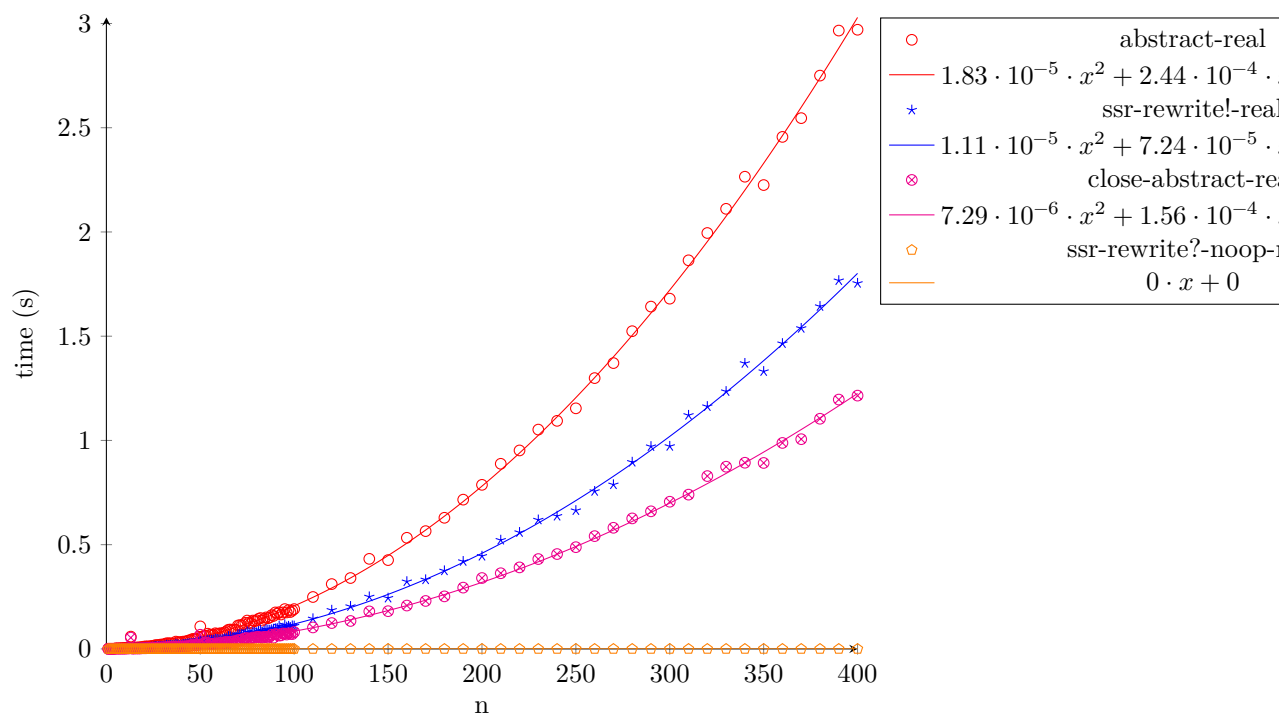Figure 7: timing-rewrite-repeated-app-autorewrite-noop

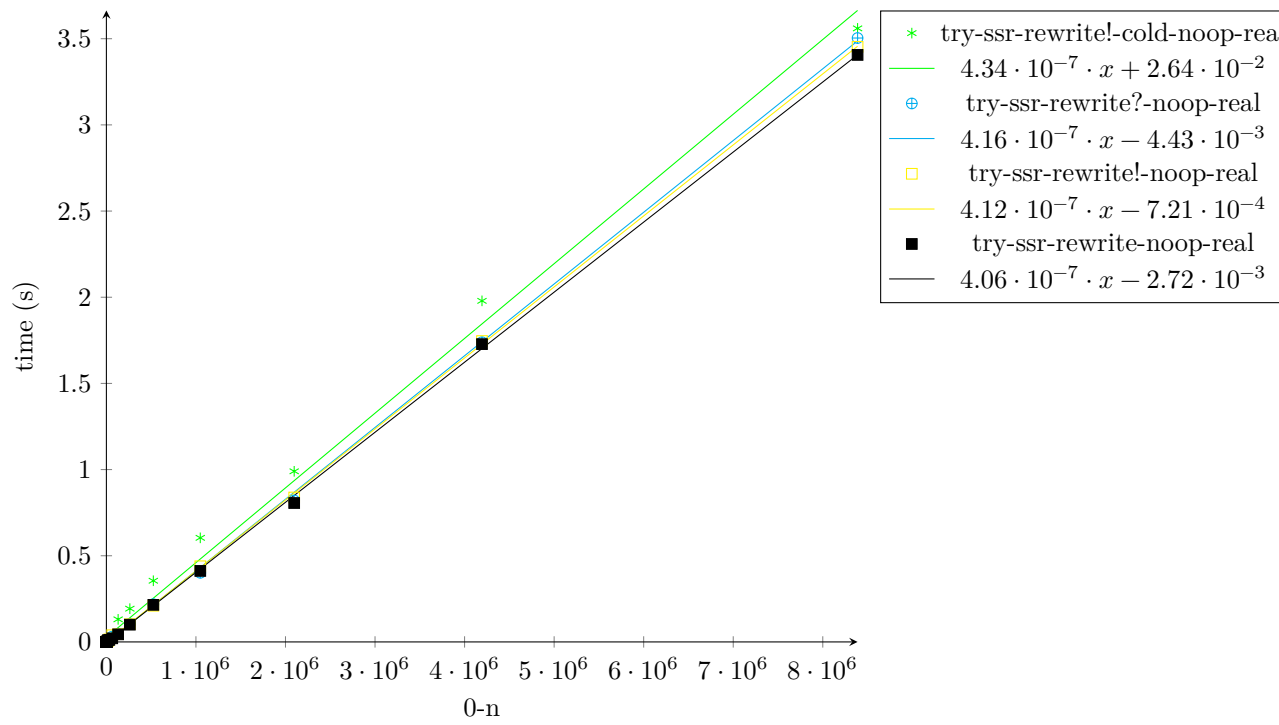Figure 8: timing-rewrite-repeated-app-ssrrewrite

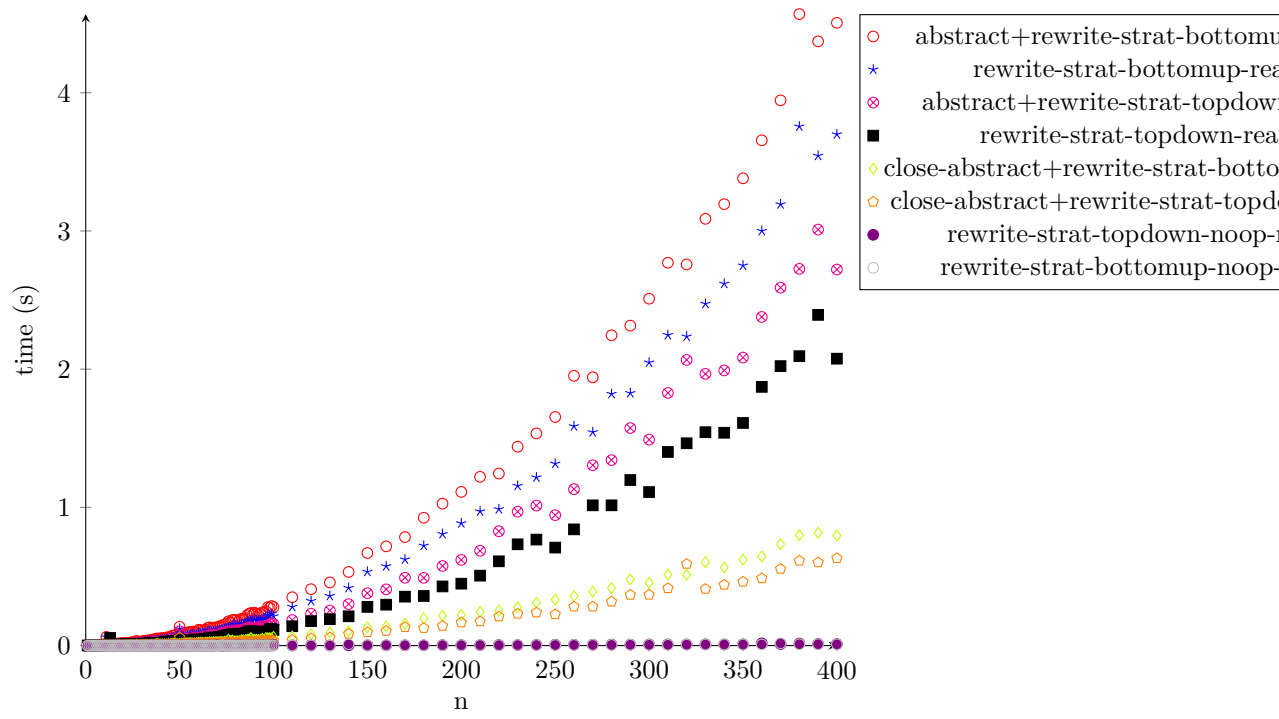Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn   1

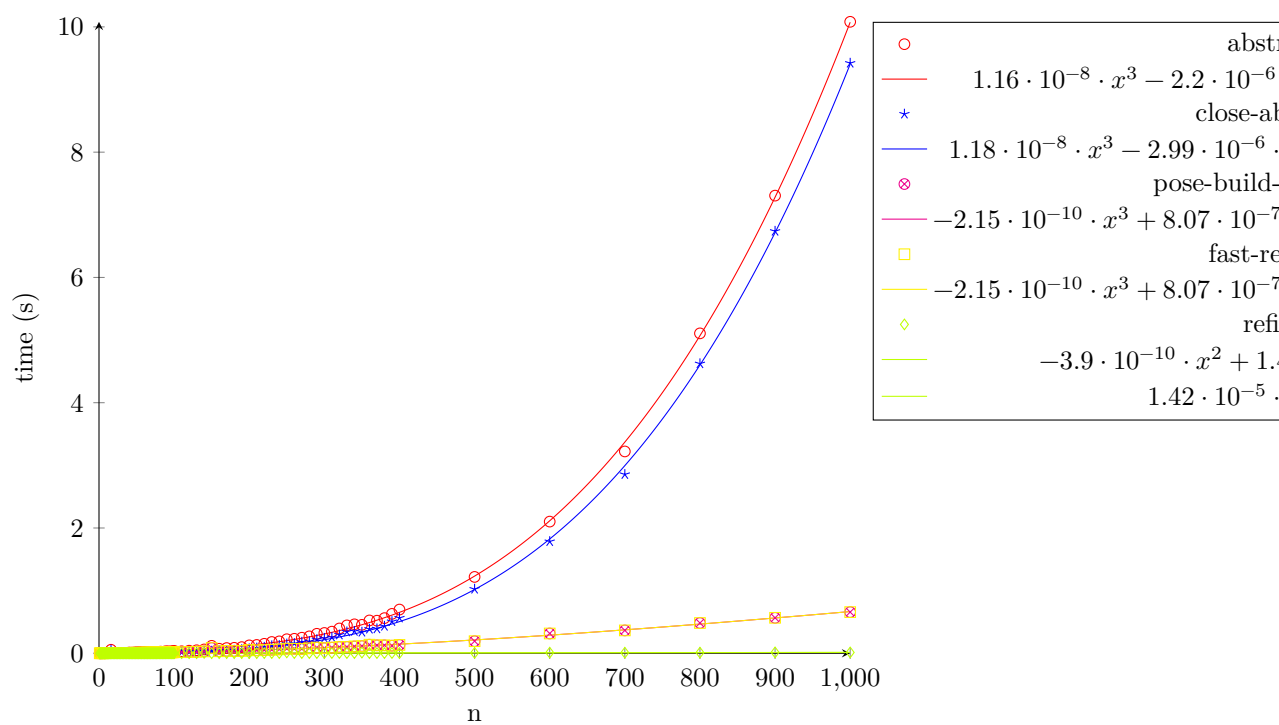Figure 10: timing-rewrite-repeated-app-rewrite-strat

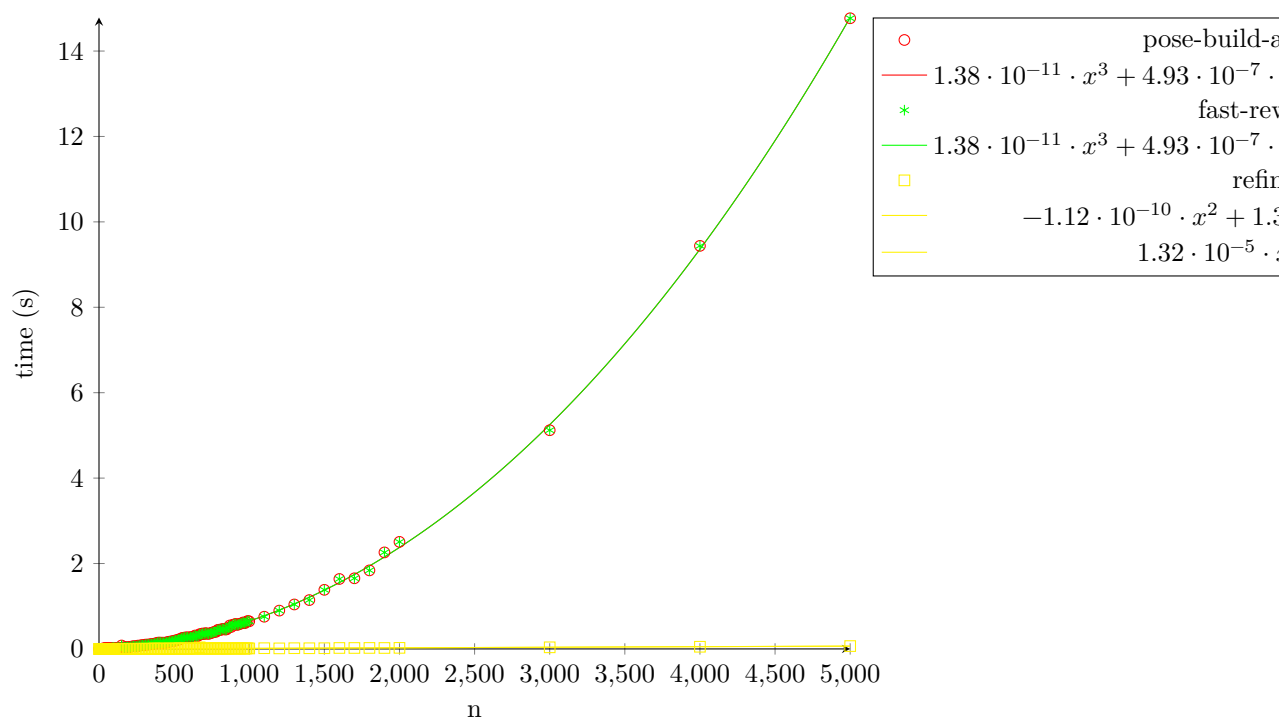Figure 11: timing-rewrite-repeated-app-fast-rewrite

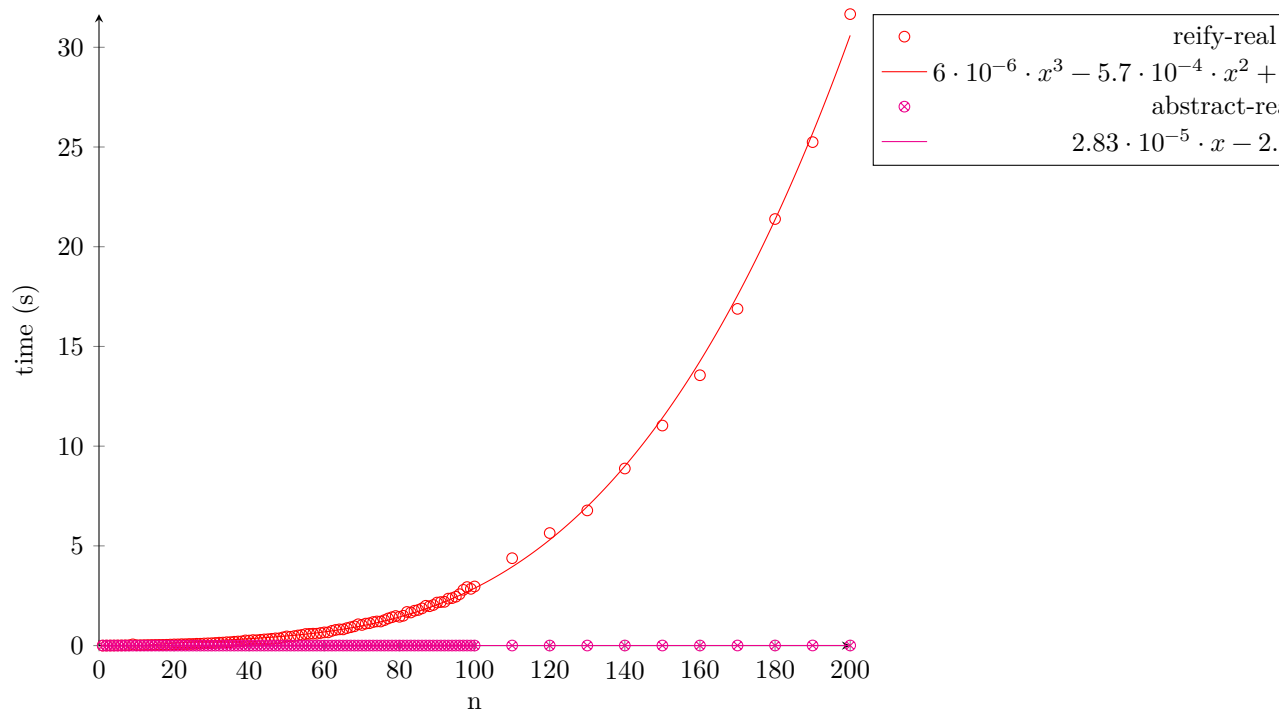Figure 12: timing-rewrite-repeated-app-fast-rewrite-no-abstract

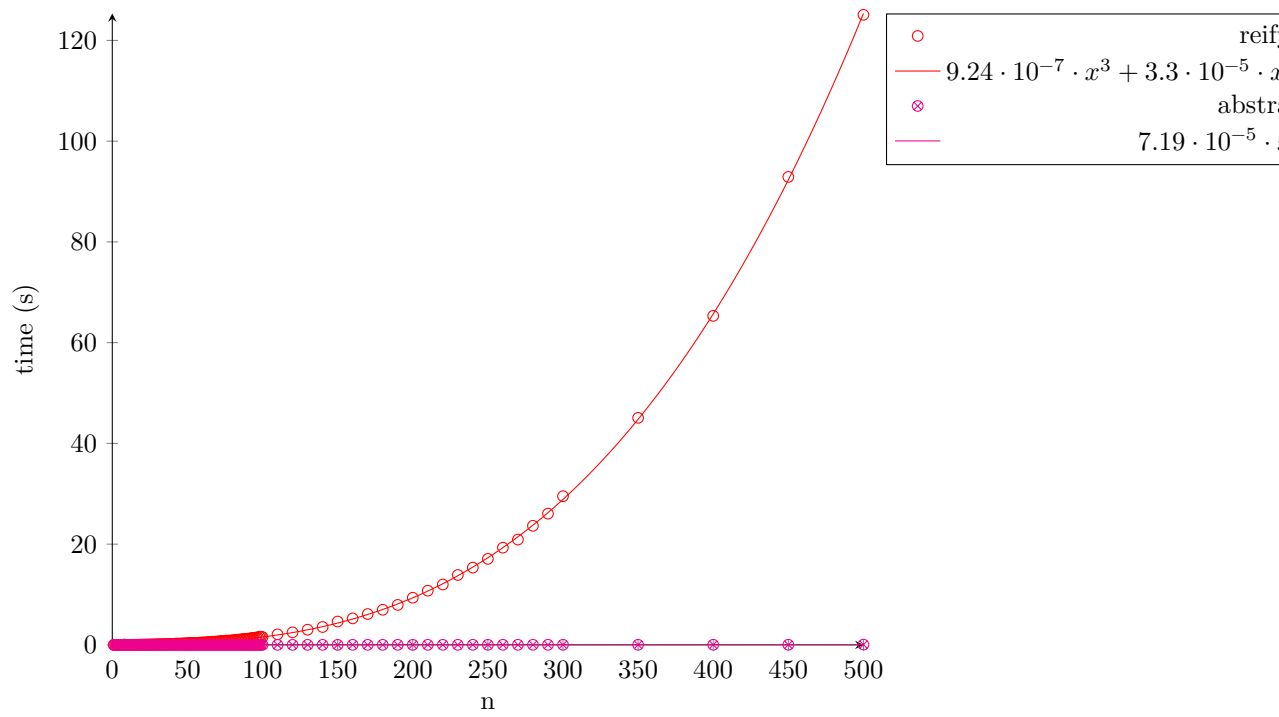Figure 13: timing-typeclass-reification-let-in-HOAS
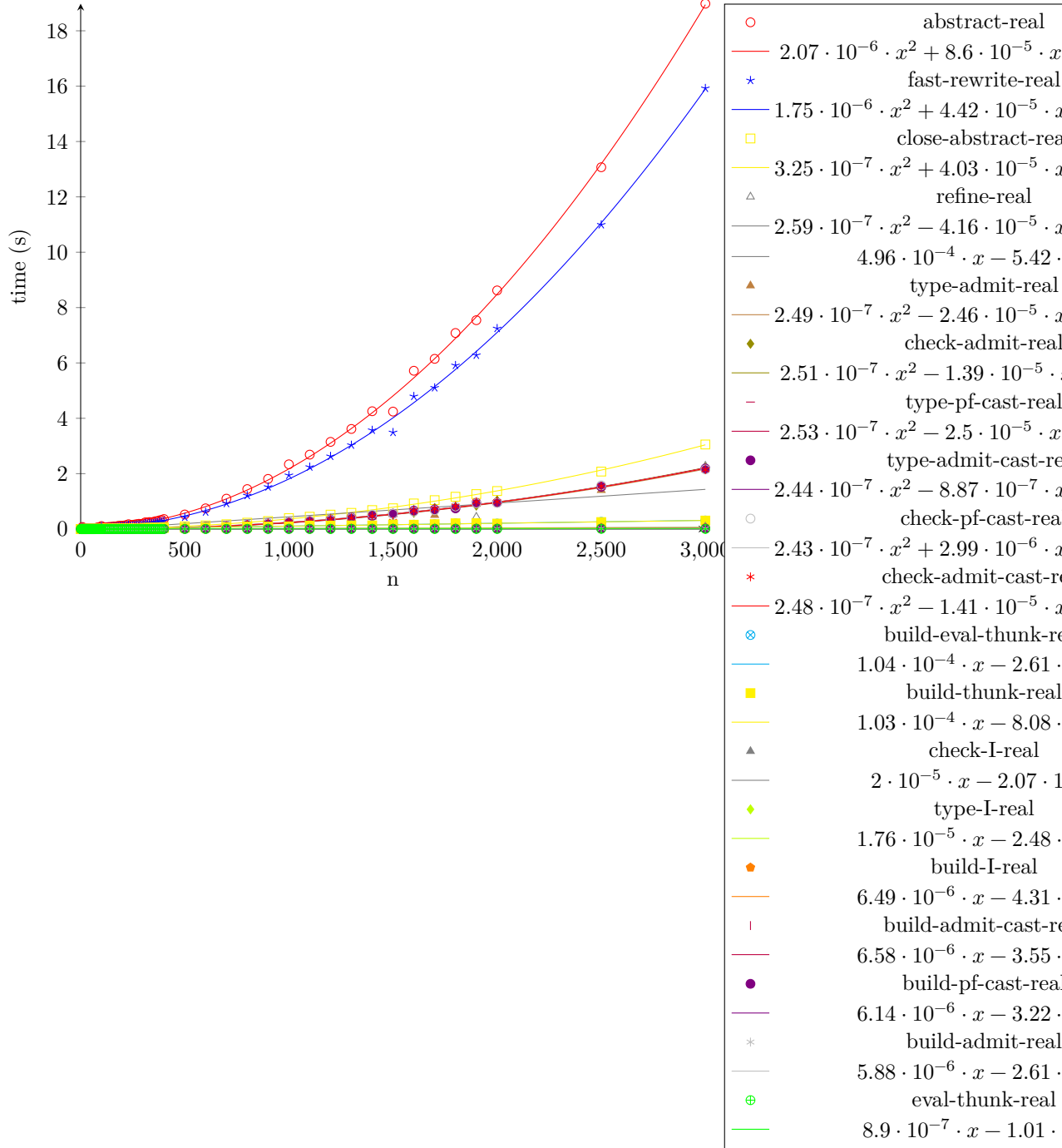
13

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

Figure 15: timing-rewrite-repeated-app-fast-rewrite-ltac2