Figure 1: timing-pattern

1

Figure 2: timing-n-polymorphic-universes param-1-n   0
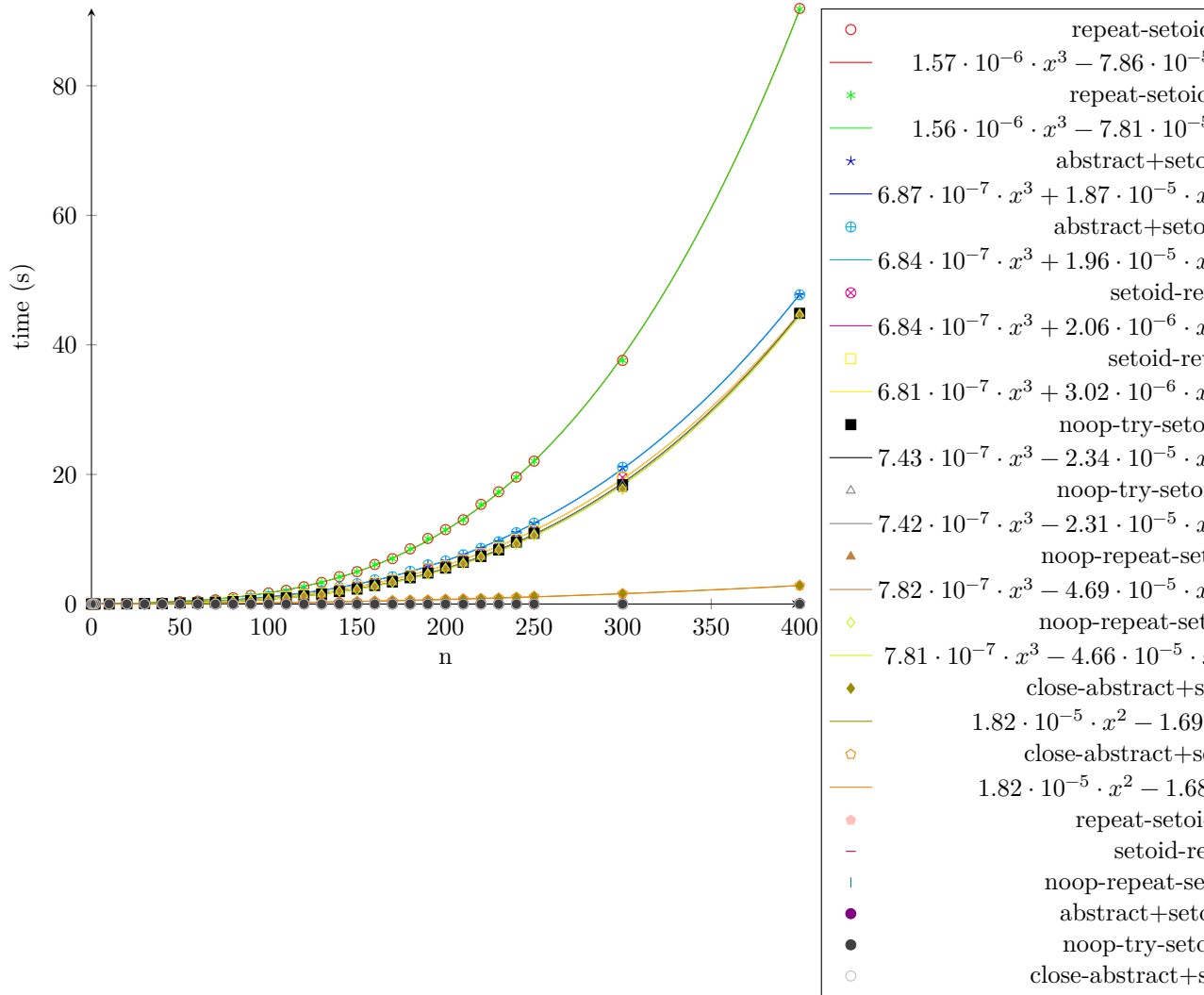
Figure 3: timing-repeat-setoid-rewrite-under-binders
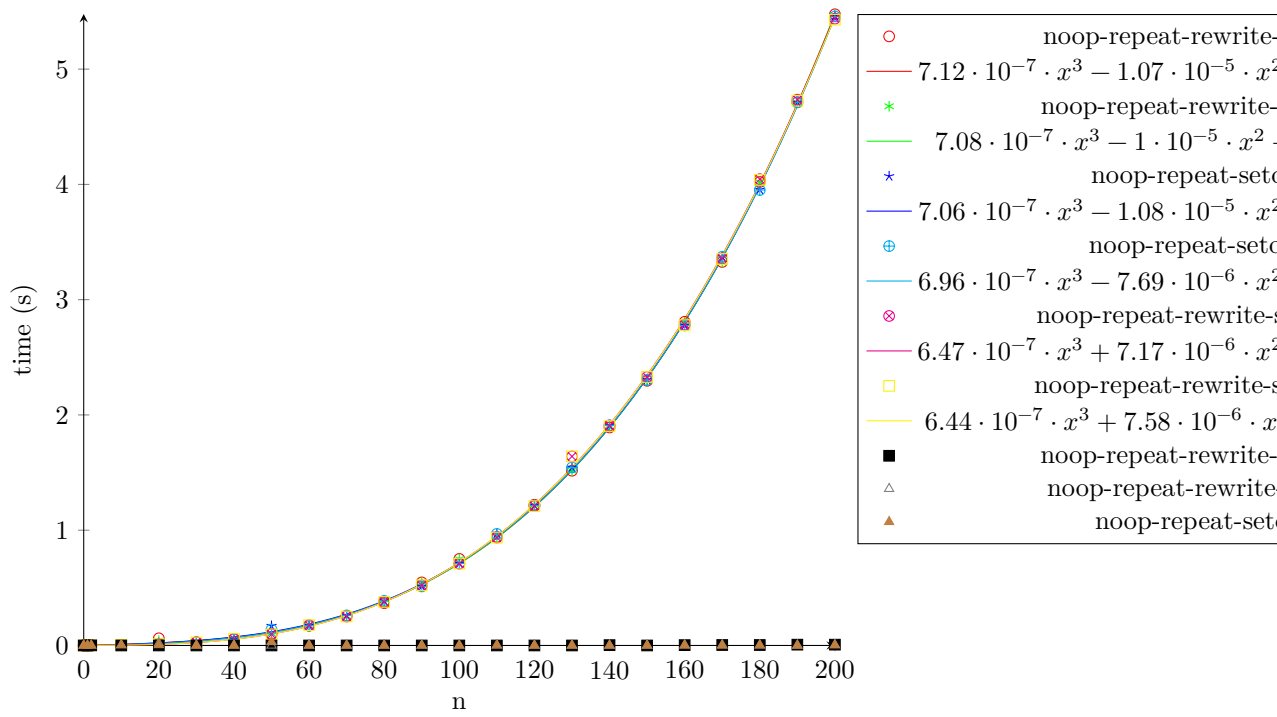
Legend (partial, truncated at right edge):

- ○ repeat-setoid...
- — $1.57 \cdot 10^{-6} \cdot x^3 - 7.86 \cdot 10^{-5}$...
- ∗ repeat-setoid...
- — $1.56 \cdot 10^{-6} \cdot x^3 - 7.81 \cdot 10^{-5}$...
- ∗ abstract+seto...
- — $6.87 \cdot 10^{-7} \cdot x^3 + 1.87 \cdot 10^{-5} \cdot x$...
- ⊕ abstract+seto...
- — $6.84 \cdot 10^{-7} \cdot x^3 + 1.96 \cdot 10^{-5} \cdot x$...
- ⊗ setoid-re...
- — $6.84 \cdot 10^{-7} \cdot x^3 + 2.06 \cdot 10^{-6} \cdot x$...
- □ setoid-re...
- — $6.81 \cdot 10^{-7} \cdot x^3 + 3.02 \cdot 10^{-6} \cdot x$...
- ■ noop-try-seto...
- — $7.43 \cdot 10^{-7} \cdot x^3 - 2.34 \cdot 10^{-5} \cdot x$...
- △ noop-try-seto...
- — $7.42 \cdot 10^{-7} \cdot x^3 - 2.31 \cdot 10^{-5} \cdot x$...
- ▲ noop-repeat-set...
- — $7.82 \cdot 10^{-7} \cdot x^3 - 4.69 \cdot 10^{-5} \cdot x$...
- ◇ noop-repeat-set...
- — $7.81 \cdot 10^{-7} \cdot x^3 - 4.66 \cdot 10^{-5} \cdot x$...
- ◆ close-abstract+s...
- — $1.82 \cdot 10^{-5} \cdot x^2 - 1.69$...
- ⬠ close-abstract+s...
- — $1.82 \cdot 10^{-5} \cdot x^2 - 1.68$...
- ⬠ repeat-setoi...
- – setoid-re...
- | noop-repeat-se...
- ● abstract+seto...
- ● noop-try-seto...
- ○ close-abstract+s...

Axis labels: time (s), n

3

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

4
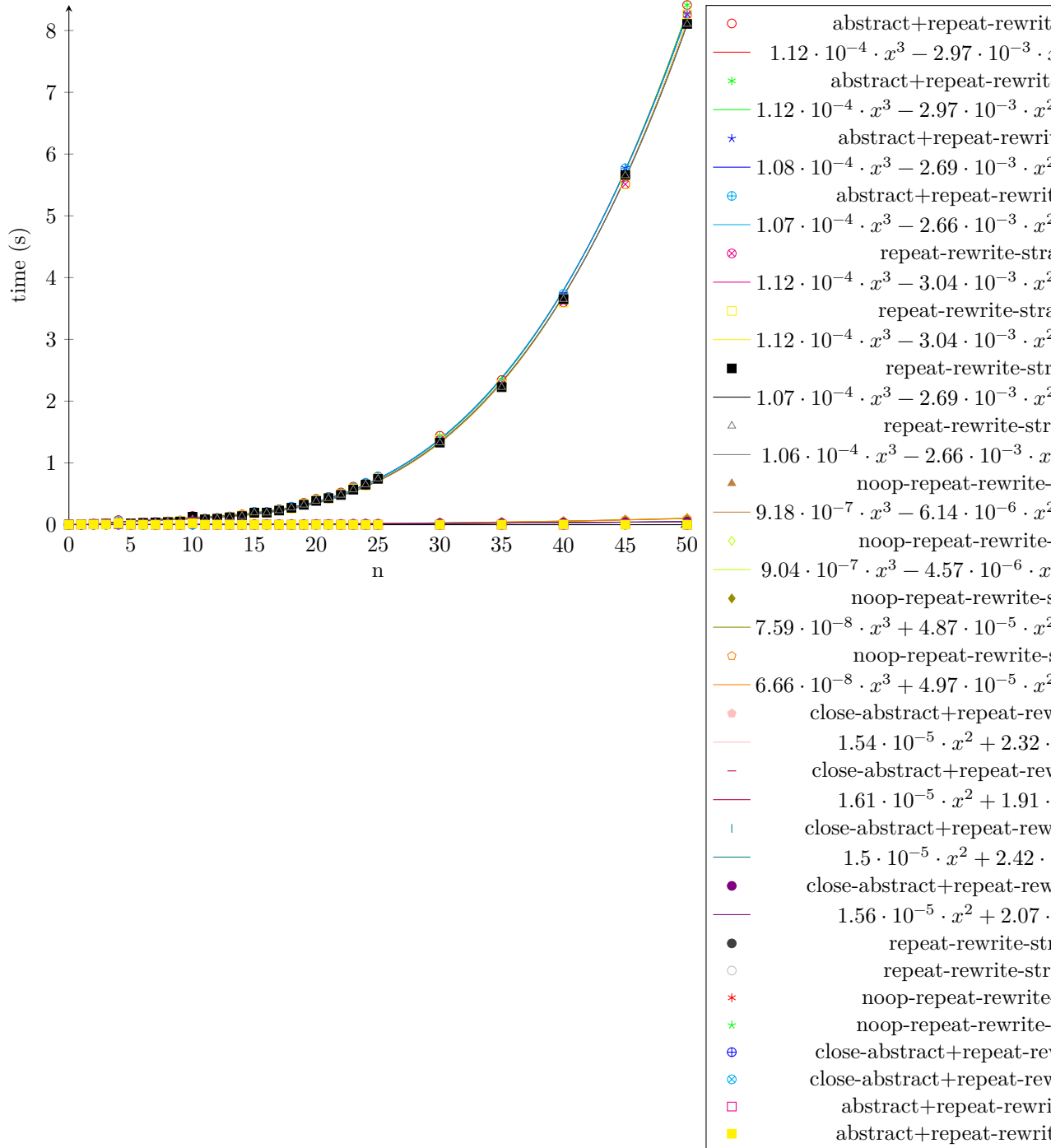
Figure 5: timing-rewrite-strat-under-binders

The figure contains a plot with axes labeled "time (s)" (vertical) and "n" (horizontal), with the following legend entries:

- abstract+rewrite!-
- $2.16 \cdot 10^{-5} \cdot x^2 - 4.35 \cdot 10^{-4} \cdot$
- abstract+rewrite!-u
- $2.16 \cdot 10^{-5} \cdot x^2 - 4.43 \cdot 10^{-4} \cdot$
- abstract+autorewrit
- $2.14 \cdot 10^{-5} \cdot x^2 - 5.03 \cdot 10^{-4} \cdot$
- abstract+autorewrit
- $2.14 \cdot 10^{-5} \cdot x^2 - 5.05 \cdot 10^{-4} \cdot$
- rewrite!-real
- $1.41 \cdot 10^{-5} \cdot x^2 - 4.81 \cdot 10^{-4} \cdot$
- rewrite!-user
- $1.41 \cdot 10^{-5} \cdot x^2 - 4.85 \cdot 10^{-4} \cdot$
- autorewrite-rea
- $1.39 \cdot 10^{-5} \cdot x^2 - 5.45 \cdot 10^{-4} \cdot$
- autorewrite-use
- $1.39 \cdot 10^{-5} \cdot x^2 - 5.38 \cdot 10^{-4} \cdot$
- close-abstract+rewrit
- $7.42 \cdot 10^{-6} \cdot x^2 + 4.4 \cdot 10^{-5} \cdot$
- close-abstract+rewrit
- $7.42 \cdot 10^{-6} \cdot x^2 + 3.77 \cdot 10^{-5} \cdot$
- close-abstract+autorew
- $7.45 \cdot 10^{-6} \cdot x^2 + 2.06 \cdot 10^{-5} \cdot$
- close-abstract+autorew
- $7.46 \cdot 10^{-6} \cdot x^2 + 2.45 \cdot 10^{-5} \cdot$
- abstract+rewrite!-
- rewrite!-sys
- autorewrite-sys
- abstract+autorewrit
- rewrite?-noop-us
- $1.64 \cdot 10^{-5} \cdot x - 2.01$
- rewrite?-noop-re
- $1.58 \cdot 10^{-5} \cdot x - 8.61$
- autorewrite-noop-u
- $1.76 \cdot 10^{-5} \cdot x - 7.61$
- autorewrite-noop-r
- $1.85 \cdot 10^{-5} \cdot x - 7.75$
- close-abstract+rewrit
- rewrite?-noop-sy
- close-abstract+autorew
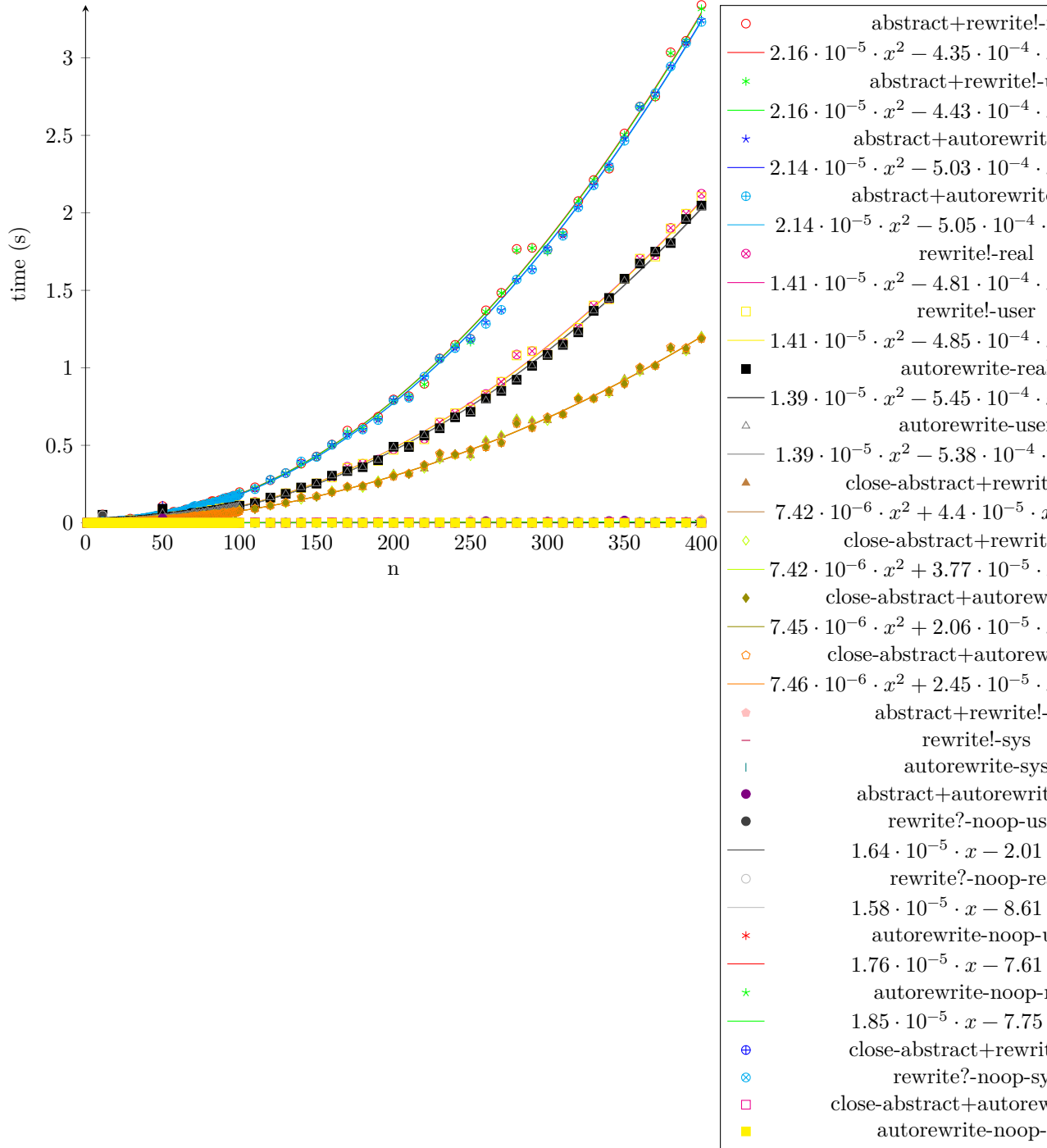- autorewrite-noop-
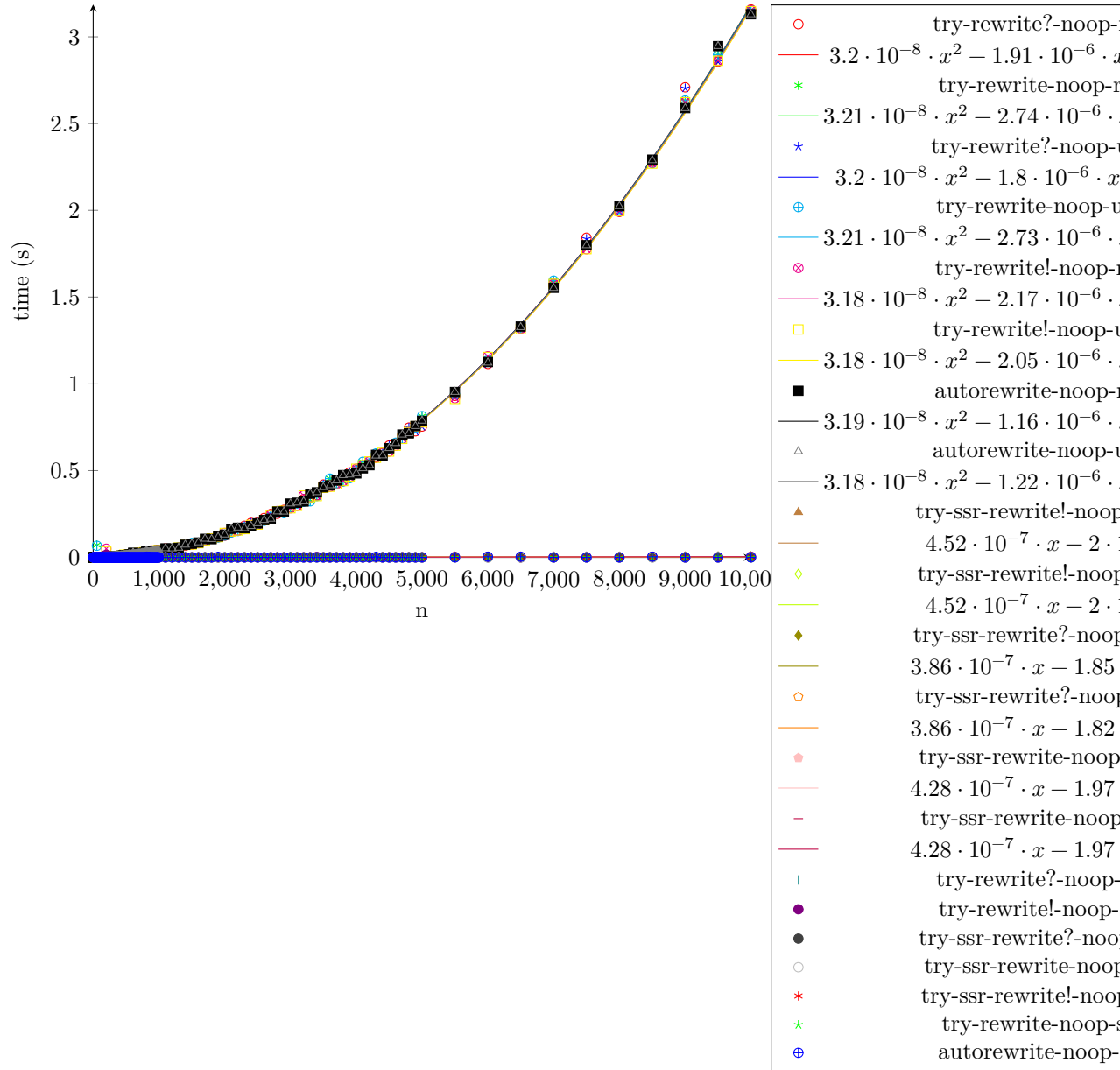
Figure 6: timing-rewrite-repeated-app-autorewrite

6

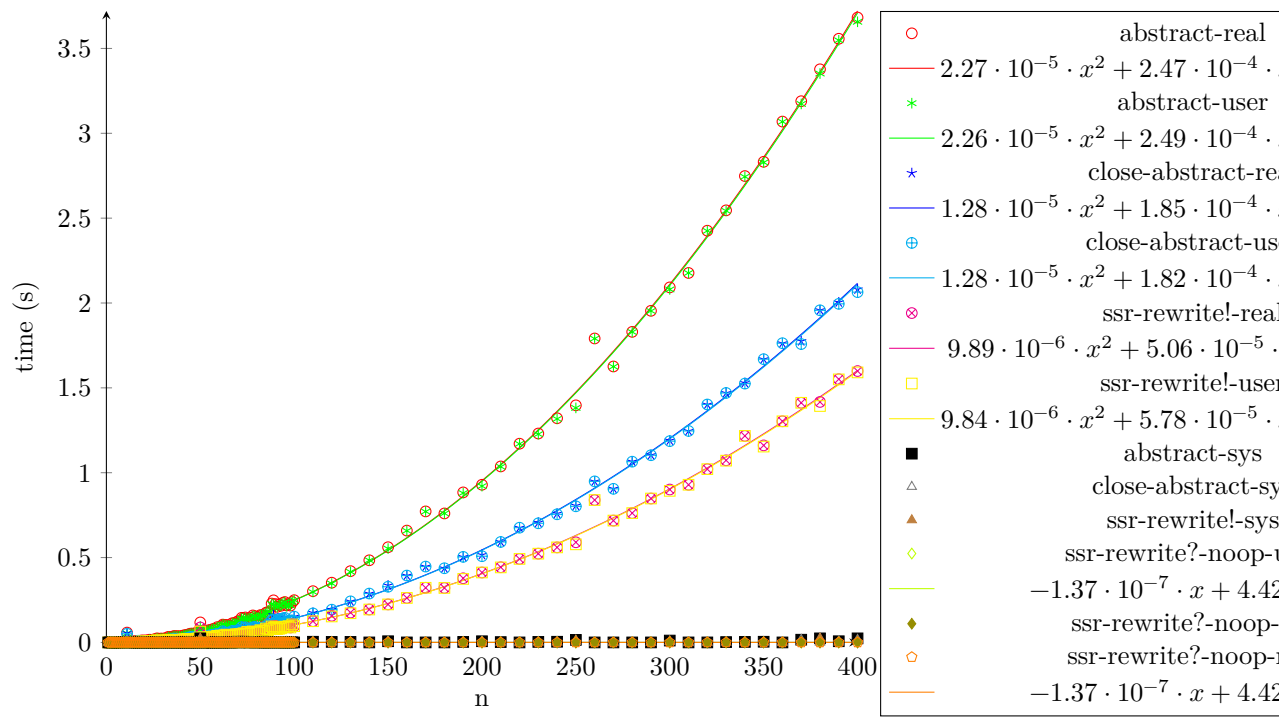Figure 7: timing-rewrite-repeated-app-autorewrite-noop

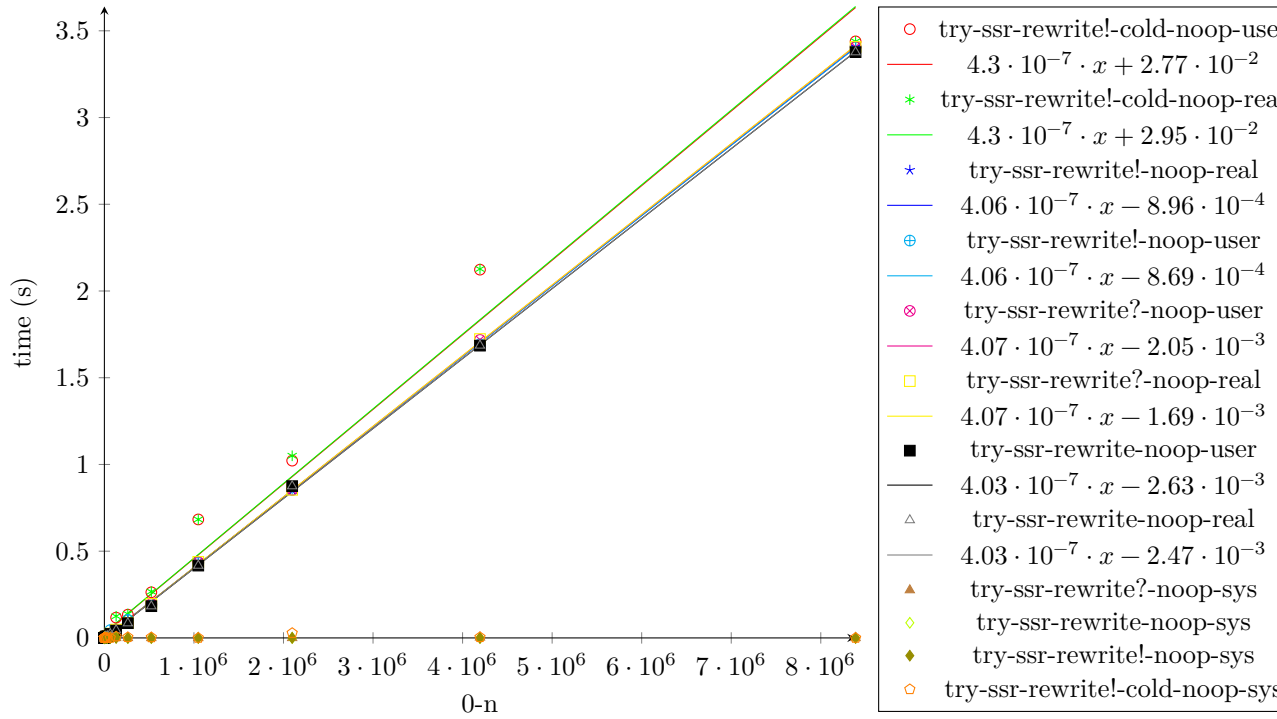Figure 8: timing-rewrite-repeated-app-ssrrewrite

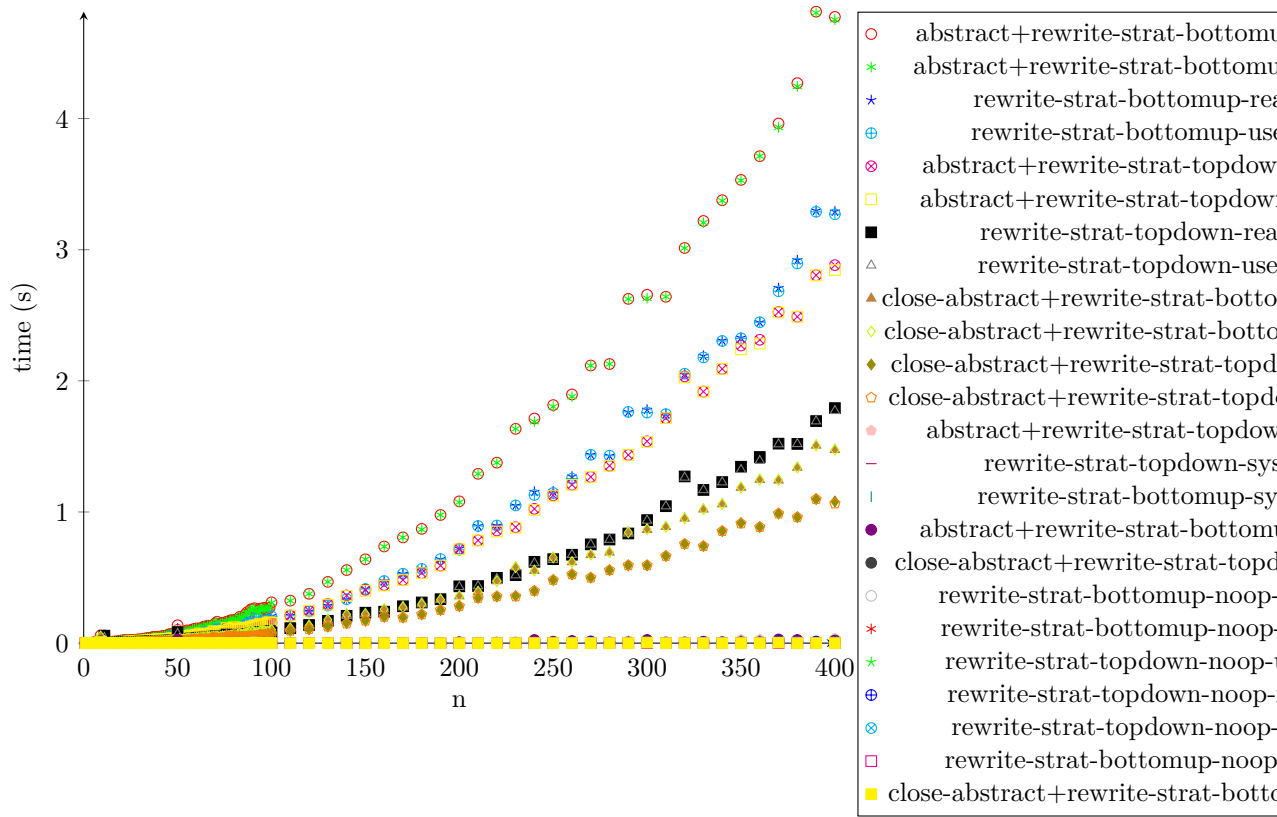Figure 9: timing-rewrite-repeated-app-ssrrewrite-noop param-1-lgn 1

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

The legend of the figure contains the following entries:

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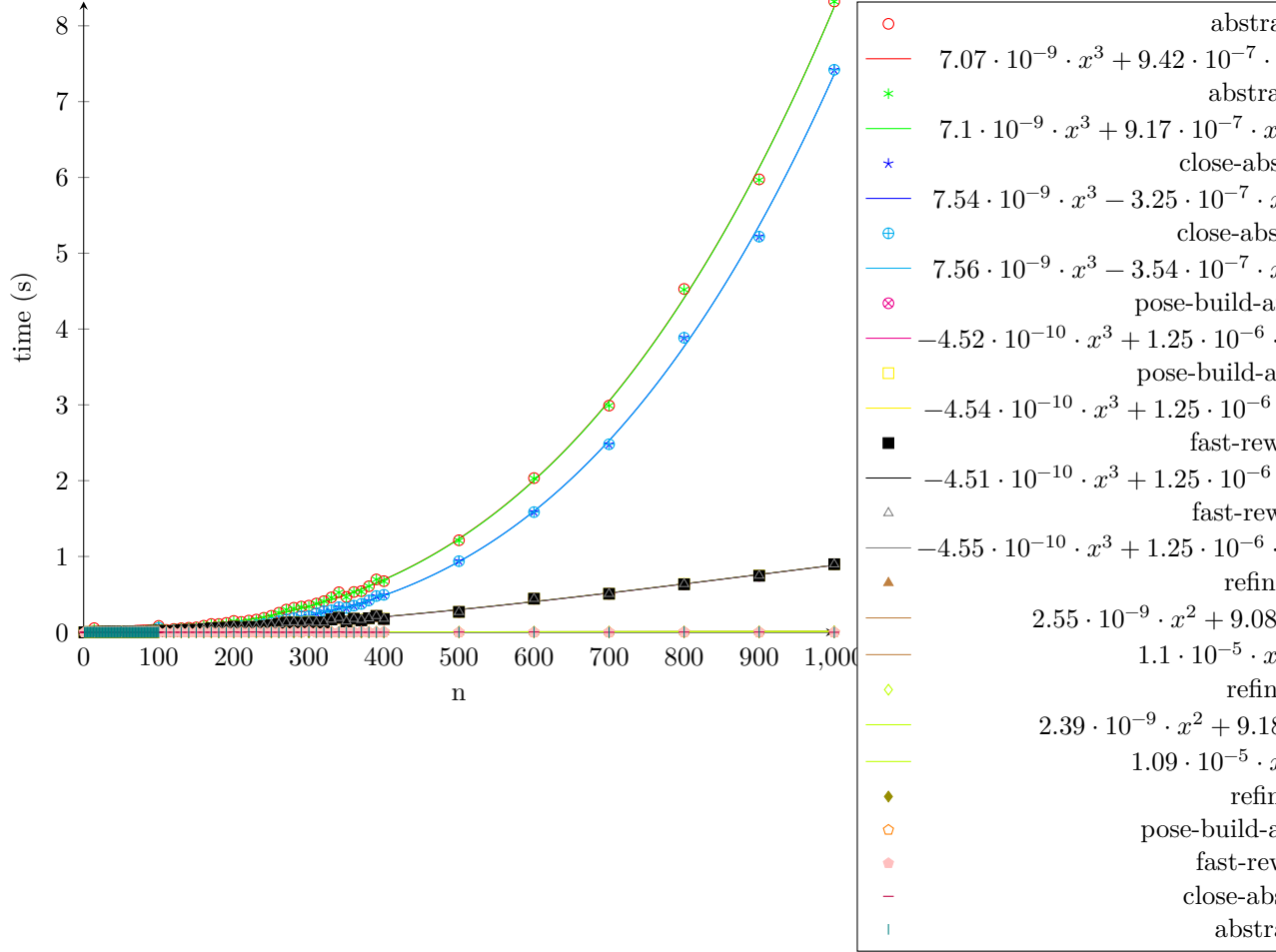- rewrite-strat-bottomup-noop
- close-abstract+rewrite-strat-botto

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

11

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