['SM data type data plots for mutation', 'Output3'] inducer -> sensor (GFP output) inducer -> S -|R (GFP output) — Converged — Converged — Converged — Converged — Converged

 10^{-4}

 10^{-4}

 3×10^3

 2×10^{3}

 4×10^3

 3×10^{3}

 2×10^{3}

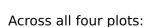
 10^{3}

10⁻⁵

 10^{-1}

 10^{-1}

 10^{-5}



 10^{4}

 10^{3}

 10^{4}

 10^{3}

 10^{-5}

 10^{-5}

 10^{-4}

 10^{-4}

RSS (converged)=0.075

 10^{-3}

 10^{-3}

inducer -> S -| Output (GFP)

 10^{-2}

 10^{-2}

RSS (initial)=0.975

RSS (% reduction)=0.929

```
message: Optimization terminated successfully.
        epsilon Initial guesses
                                Converged
                                                    success: True
    47.511887
                   608.397103
                                 655.908990
                                                     status: 0
B s 1216.351315
                   15250.457700 16466.809015
                                                       fun: 0.07493248308571682
Cs -446.643749
                   1668.059050 1221.415301
                                                        x: [6.559e+02 1.647e+04 ... 2.826e+00 1.332e+00]
     -0.054290
                    1.198934
                                 1.144643
                                                       nit: 14281
A r 1175.935523
                    687.964693 1863.900216
                                                      nfev: 18848
B r 98555.283386
                   23497.611400 122052.894786 final simplex: (array([[ 6.559e+02, 1.647e+04, ..., 2.826e+00,
      0.142962
                    0.062367
                                0.205329
Cr
                                                               1.332e+001,
      0.324423
                    0.391731
                                0.716154
                                                             [6.559e+02, 1.647e+04, ..., 2.826e+00,
Νr
    -413.834660
                    590.606548
                                  176.771888
                                                               1.332e+00],
    30286.907305
                    35287.125700 65574.033005
Βh
C h
      0.001249
                    0.000530
                                0.001779
                                                             [6.559e+02, 1.647e+04, ..., 2.826e+00,
     -0.522004
                    0.829830
                                 0.307826
Αо
                                                               1.332e+00],
                                                             [6.559e+02, 1.647e+04, ..., 2.826e+00,
     -1.558929
                    4.288170
Во
                                 2.729241
      -0.307089
                    3.133222
                                                               1.332e+00]]), array([7.493e-02, 7.493e-02, ..., 7.493e-02, 7.493e-02]))
                                 2.826133
      -0.477506
                    1.809018
                                 1.331512
```

 10^{-2}

 10^{-2}

 10^{-1}

 10^{-1}

 10^{-3}

Full circuit with stripe

10⁻³