['SM data type data plots for mutation', 'Output6', 'using model:', 'model'] inducer -> sensor (GFP output) inducer -> S - IR (GFP output) 10^{4} 4×10^{3} 3×10^{3} 10^{3} 2×10^{3} 10⁻³ 10^{-1} 10^{-2} 10^{-2} 10^{-4} 10^{-5} 10^{-4} 10^{-3} 10^{-1} inducer -> S -| Output (GFP) Full circuit with stripe 4×10^{3} 10^{4} 3×10^{3} 2×10^{3} 10^{3} 10⁻³ 10^{-1} 10^{-5} 10^{-3} 10^{-2} 10^{-4} 10^{-5} 10^{-2} 10^{-1} 10^{-4} Across all four plots:

time elapsed for this fit --- 24.94022226333618 seconds ---

Initial Guess

ConvergedConvergedConverged

Converged

RSS (converged)=0.057

RSS (initial)=0.273

RSS (% reduction)=0.826

```
epsilon Initial guesses
                                 Converged
                                                     message: Optimization terminated successfully.
A_s
     11.926992
                    650.714912
                                 662.641904
                                                     success: True
     13.409215
                  16259.979950 16273.389164
                                                     status: 0
      -8.517917
                  1296.448889 1287.930972
                                                       fun: 0.05740338716192191
N_s
      0.018702
                    1.154067
                                1.172769
                                                        x: [ 6.626e+02 1.627e+04 ... 1.448e+00 1.122e+00]
A r
      0.000000
                  2020.019216 2020.019216
                                                       nit: 8416
                 23688.809187 23688.809187
Βr
      0.000000
                                                       nfev: 11119
C^{-}r
      0.000000
                    0.010358
                                0.010358
                                                 final simplex: (array([[ 6.626e+02, 1.627e+04, ..., 1.448e+00,
      0.000000
                    0.910072
                                0.910072
                                                               1.122e+001
     343.784769
                    143.802212 487.586981
                                                              [6.626e+02, 1.627e+04, ..., 1.448e+00,
B_h 10060.081699
                    50238.271408 60298.353108
                                                               1.122e+00],
Ch
      0.000387
                    0.000929
                                0.001316
                                                              [6.626e+02, 1.627e+04, ..., 1.448e+00,
Αо
      -1.363830
                    1.673894
                                0.310065
      1.986349
                    0.895342
                                2.881691
Во
                                                               1.122e+00],
C_o
                                                              [6.626e+02, 1.627e+04, ..., 1.448e+00,
      0.043410
                                2.701108
                    2.657699
      0.068420
                    1.379953
                                1.448373
                                                               1.122e+00]]), array([ 5.740e-02, 5.740e-02, ..., 5.740e-02, 5.740e-02]))
                                1.121813
     -1.239471
                    2.361284
```