

 10^{-4}

 10^{-4}

 10^{-3}

Full circuit with stripe

10⁻³

 10^{-2}

 10^{-2}

 10^{-1}

 10^{-1}

message: Optimization terminated successfully.

 4×10^{3}

 3×10^{3}

 6×10^{3}

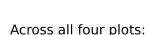
 4×10^{3}

 3×10^{3}

 2×10^{3}

10⁻⁵

 10^{-5}



 10^{-4}

 10^{-4}

 10^{-3}

inducer -> S -| Output (GFP)

 10^{-2}

 10^{-2}

 10^{-1}

 10^{-1}

 10^{4}

 10^{3}

 10^{4}

 10^{3}

 10^{-5}

RSS (converged)=1.259

 10^{-3}

RSS (initial)=1.711

RSS (% reduction)=0.576

```
epsilon Initial guesses
                                                                                     Converged
                                                                                                                                               success: True
A s 0.000000e+00
                                                       6.599635e+02 6.599635e+02
                                                                                                                                                 status: 0
B s 0.000000e+00
                                                       1.634714e+04 1.634714e+04
                                                                                                                                                      fun: 1.258685361943542
C s 0.000000e+00
                                                        1.259256e+03 1.259256e+03
                                                                                                                                                         x: [ 6.600e+02 1.635e+04 ... 2.721e+00 1.250e+00]
N s 0.000000e+00
                                                        1.160440e+00 1.160440e+00
                                                                                                                                                     nit: 2798
A r 1.334855e+03
                                                       1.998310e+03 3.333166e+03
                                                                                                                                                    nfev: 4359
                                                       2.040009e+11\ 1.882853e+11\ final\ simplex: (array([[6.600e+02, 1.635e+04, ..., 2.721e+00, 1.635e+04, ..., 2.721e+000, 1.635e+000, 1.635e+000, 1.635e+000, 1.635e+000, 1.635e+000, 1.635e+000, 1.635e+000, 1.635e+0000, 1.635e+000, 1.635e+000, 1.635e+000, 1.635e+000, 1.635e+000, 1.
Br-1.571553e+10
                                                       2.771808e+06 3.122760e+03
C r-2.768685e+06
                                                                                                                                                                           1.250e+001,
N r 3.866977e-01
                                                     8.375226e-01 1.224220e+00
                                                                                                                                                                        [6.600e+02, 1.635e+04, ..., 2.721e+00,
A h 0.000000e+00
                                                        5.477878e-06 5.477878e-06
                                                                                                                                                                           1.250e+00],
B h 0.000000e+00
                                                        6.710814e+04 6.710814e+04
C h 0.000000e+00
                                                        1.412943e-03 1.412943e-03
                                                                                                                                                                        [6.600e+02, 1.635e+04, ..., 2.721e+00,
                                                        5.414338e+07 5.414338e+07
A o 0.000000e+00
                                                                                                                                                                           1.250e+00],
B o 0.000000e+00
                                                        2.126439e+00 2.126439e+00
                                                                                                                                                                        [6.600e+02, 1.635e+04, ..., 2.721e+00,
C o 0.000000e+00
                                                        2.720605e+00 2.720605e+00
                                                                                                                                                                           1.250e+00]), array([ 1.259e+00, 1.259e+00, ..., 1.259e+00, 1.259e+00]))
N_o 0.000000e+00
                                                        1.250443e+00 1.250443e+00
```