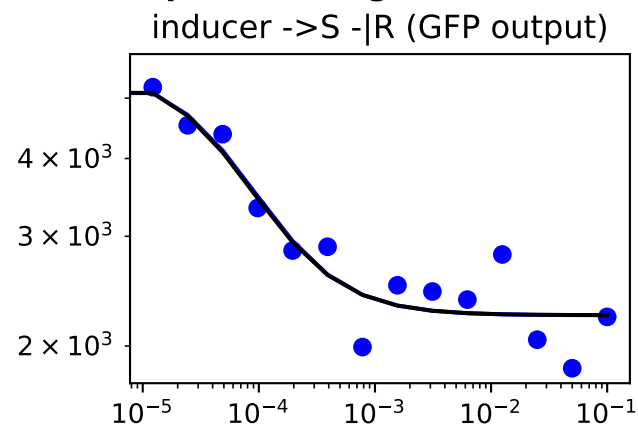
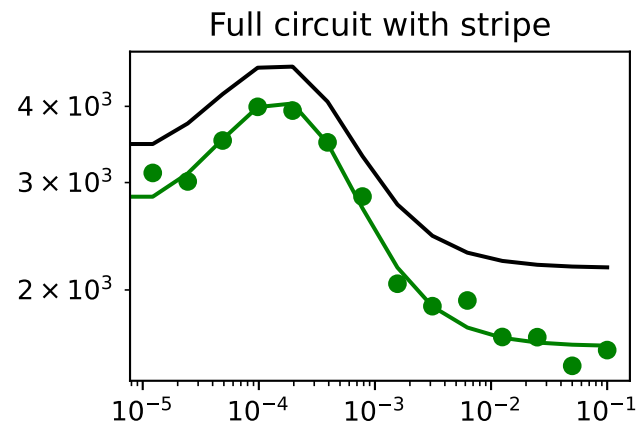


- Initial Guess
- Converged
- Converged
- Converged
- Converged



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



Across all four plots:

RSS (converged)=0.057

RSS (initial)=0.273

RSS (% reduction)=0.826

	epsilon	Initial_guesses	Converged
A_s	11.926992	650.714912	662.641904
B_s	13.409215	16259.979950	16273.389164
C_s	-8.517917	1296.448889	1287.930972
N_s	0.018702	1.154067	1.172769
A_r	0.000000	2020.019216	2020.019216
B_r	0.000000	23688.809187	23688.809187
C_r	0.000000	0.010358	0.010358
N_r	0.000000	0.910072	0.910072
A_h	343.784769	143.802212	487.586981
B_h	10060.081699	50238.271408	60298.353108
C_h	0.000387	0.000929	0.001316
A_o	-1.363830	1.673894	0.310065
B_o	1.986349	0.895342	2.881691
C_o	0.043410	2.657699	2.701108
N_o	0.068420	1.379953	1.448373
F_o	-1.239471	2.361284	1.121813

message: Optimization terminated successfully.

success: True

```
status: 0
```

fun: 0.05740338716192191

```
x: [ 6.626e+02  1.627e+04 ...  1.448e+00  1.122e+00]
```

nit: 8416

nfev: 11119

```
final_simplex: (array([[ 6.626e+02, 1.627e+04, ..., 1.448e+00,
                        1.122e+00],
                       [ 6.626e+02, 1.627e+04, ..., 1.448e+00,
                        1.122e+00],
```

...

```
[ 6.626e+02, 1.627e+04, ..., 1.448e+00,
 1.122e+00],
```

```
[ 6.626e+02, 1.627e+04, ..., 1.448e+00,
```

```
1.122e+00]]), array([ 5.740e-02, 5.740e-02, ..., 5.740e-02, 5.740e-02]))
```