Through

November 10, 2024

[1]:
```
import skrf
import numpy as np
from matplotlib import pyplot as plt
%matplotlib inline

import warnings
import glob

warnings.filterwarnings("ignore", category=RuntimeWarning)

plt.rcParams["figure.figsize"] = [12,10]
```

1 Through A6/A7

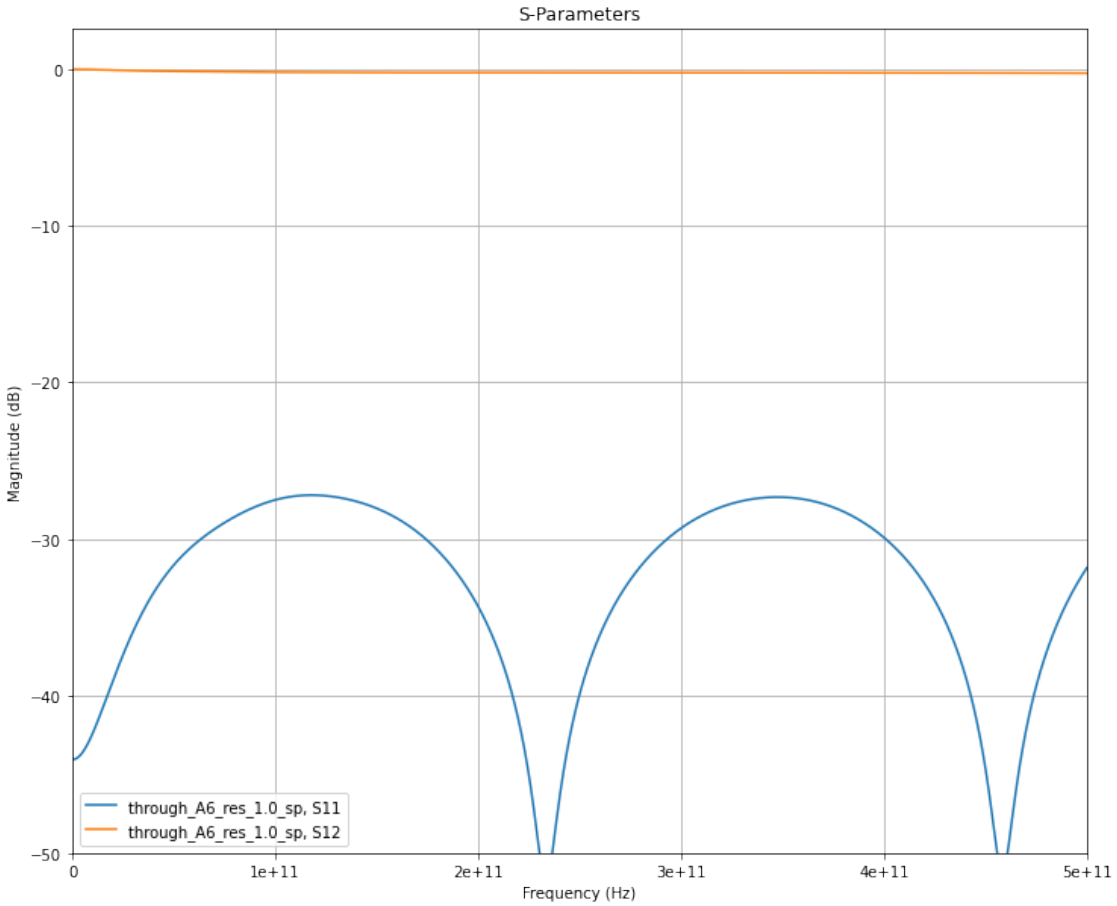
- A6 and A7 are the same
- symmetrical simulation

[2]:
```
net = skrf.Network("through_A6_res_1.0_sp.s2p")
```

[3]:
```
print(net)
```

```
2-Port Network: 'through_A6_res_1.0_sp',  0.0-500000000000.0 Hz, 20000 pts,
z0=[50.+0.j 50.+0.j]
```

[4]:
```
net.plot_s_db(m=0)
plt.grid()
plt.ylim(bottom=-50)
plt.title("S-Parameters")
plt.show()
```



2 Through G0/G1

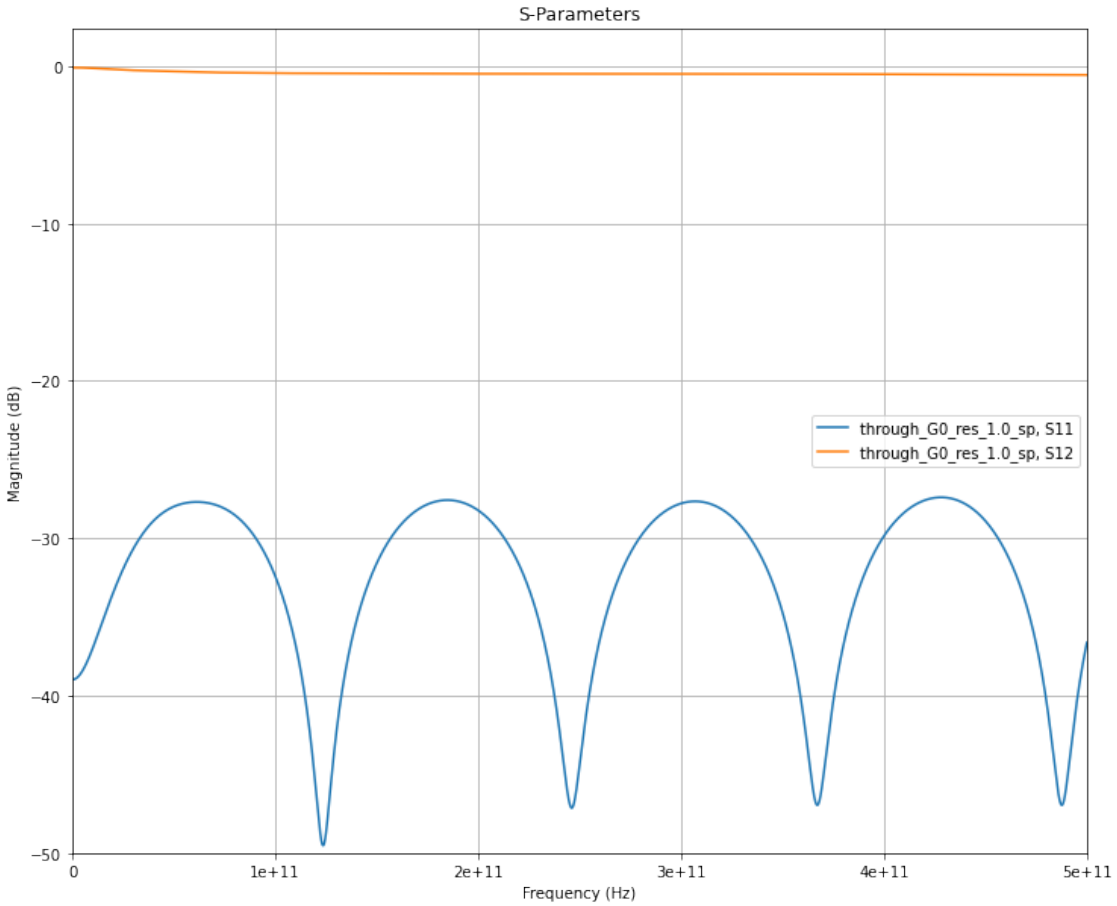
- G0 and G1 are the same
- symmetrical simulation

[5]:
```
net = skrf.Network("through_G0_res_1.0_sp.s2p")
```

[6]:
```
print(net)
```

```
2-Port Network: 'through_G0_res_1.0_sp',  0.0-500000000000.0 Hz, 20000 pts,
z0=[50.+0.j 50.+0.j]
```

[7]:
```
net.plot_s_db(m=0)
plt.grid()
plt.ylim(bottom=-50)
plt.title("S-Parameters")
plt.show()
```


S-Parameters
0
−10
−20
−30
−40
−50
Magnitude (dB)
0
1e+11
2e+11
3e+11
4e+11
5e+11
Frequency (Hz)
through_G0_res_1.0_sp, S11
through_G0_res_1.0_sp, S12