

Import Measured Results

```
fs_48, remez78_q15 = loadtxt('spec_noise_b_remez78_fs48arm_q15.csv',
                             delimiter=',', skiprows=1, usecols=(0, 1),
                             unpack=True)
```

```
figure(figsize=(6, 3))
f = arange(0, 1.0, .001)
w, B = signal.freqz(b1, 1, 2*pi*f)
w, Bq = signal.freqz(b1_fix, 1, 2*pi*f)
plot(f*48, 20*log10(abs(B)))
plot(f*48, 20*log10(abs(Bq)/sum(b1_fix)))
#plot(fs_48[:600]/1000, remez78_q15[:600]-mean(remez78_q15[:20]))
title(r'Equiripple Lowpass Theory: %d Taps' % n_bump)
ylabel(r'Filter Gain (dB)')
xlabel(r'Frequency in kHz ($f_s = $ %d kHz)' % (fs/1e3,))
legend((r'Theory float64', r'Theory int16'), loc='upper right')
ylim([-70, 2])
xlim([0, fs/1e3/2])
grid();
```

