Table of Contents

| Part 1: Check filter design Part II: Comparative behavior of window filters | | 1 2 |
|--|---|--------|
| Part III: F | Phone tones | / |
| | | |
| _ | | |
| | Checks functionality of FIR window design | |
| | Place this file in same directory as your | |
| % | rectfilt, hammingfilt and kaiserfilt functions. | |

Part 1: Check filter design

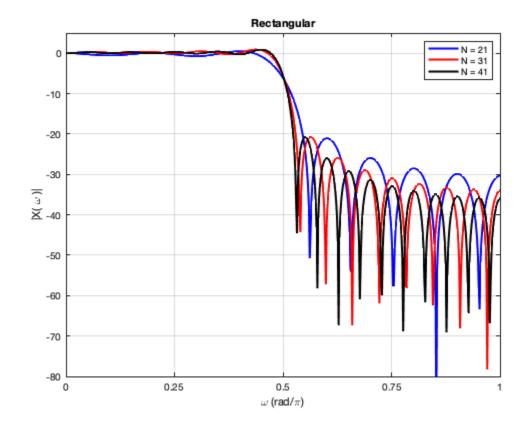
```
test_lab7a
```

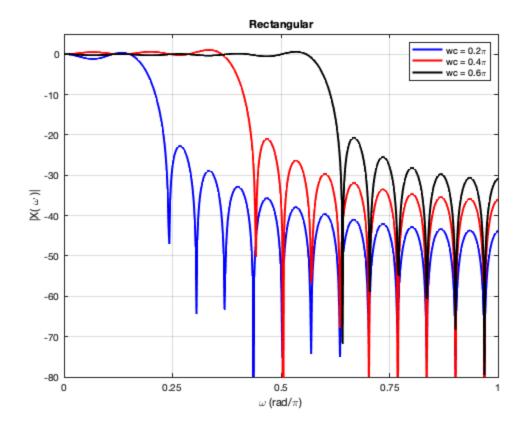
```
Testing 'rectfilt' with N=21 and wc=0.25: O.K.
Testing 'rectfilt' with N=31 and wc=0.25: O.K.
Testing 'rectfilt' with N=41 and wc=0.25: O.K.
Testing 'rectfilt' with N=21 and wc=0.50: O.K.
Testing 'rectfilt' with N=31 and wc=0.50: O.K.
Testing 'rectfilt' with N=41 and wc=0.50: O.K.
Testing 'rectfilt' with N=21 and wc=0.75: O.K.
Testing 'rectfilt' with N=31 and wc=0.75: O.K.
Testing 'rectfilt' with N=41 and wc=0.75: O.K.
Testing 'hammingfilt' with N=21 and wc=0.25: O.K.
Testing 'hammingfilt' with N=31 and wc=0.25: O.K.
Testing 'hammingfilt' with N=41 and wc=0.25: O.K.
Testing 'hammingfilt' with N=21 and wc=0.50: O.K.
Testing 'hammingfilt' with N=31 and wc=0.50: O.K.
Testing 'hammingfilt' with N=41 and wc=0.50: O.K.
Testing 'hammingfilt' with N=21 and wc=0.75: O.K.
Testing 'hammingfilt' with N=31 and wc=0.75: O.K.
Testing 'hammingfilt' with N=41 and wc=0.75: O.K.
Testing 'kaiserfilt' with deltaOmega=0.1, delta=0.01:
 N (45) is correct, beta (3.39532) is correct
 Checking wc=0.25: O.K.
 Checking wc=0.50: O.K.
 Checking wc=0.75: O.K.
Testing 'kaiserfilt' with deltaOmega=0.1, delta=0.00097:
 N (73) is correct, beta (5.68242) is correct
 Checking wc=0.25: O.K.
 Checking wc=0.50: O.K.
 Checking wc=0.75: O.K.
Testing 'kaiserfilt' with deltaOmega=0.1, delta=9.7e-05:
 N (101) is correct, beta (7.88642) is correct
 Checking wc=0.25: O.K.
 Checking wc=0.50: O.K.
```

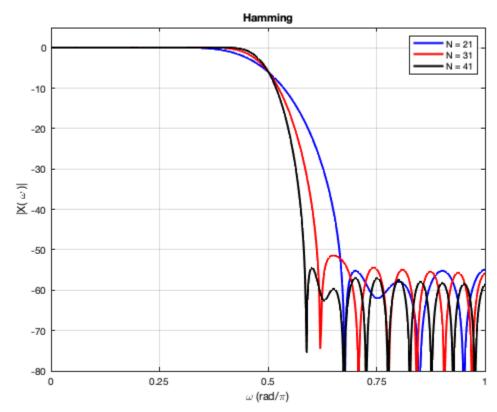
```
Checking wc=0.75: O.K.
Testing 'kaiserfilt' with deltaOmega=0.2, delta=0.01:
N (23) is correct, beta (3.39532) is correct
Checking wc=0.25: O.K.
 Checking wc=0.50: O.K.
 Checking wc=0.75: O.K.
Testing 'kaiserfilt' with deltaOmega=0.2, delta=0.00097:
N (37) is correct, beta (5.68242) is correct
Checking wc=0.25: O.K.
 Checking wc=0.50: O.K.
 Checking wc=0.75: O.K.
Testing 'kaiserfilt' with deltaOmega=0.2, delta=9.7e-05:
 N (51) is correct, beta (7.88642) is correct
 Checking wc=0.25: O.K.
 Checking wc=0.50: O.K.
 Checking wc=0.75: O.K.
```

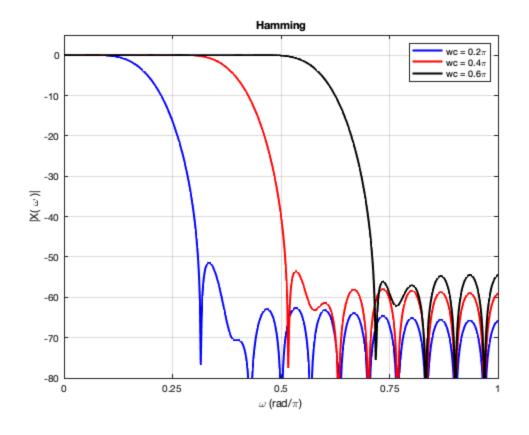
Part II: Comparative behavior of window filters

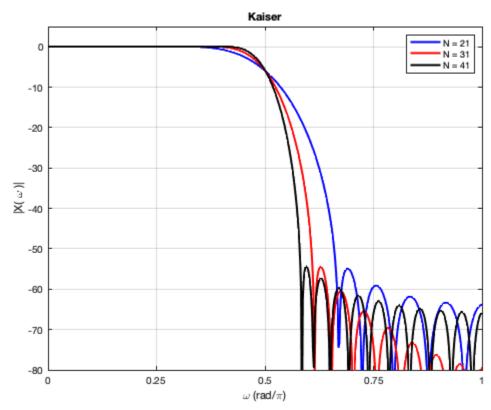
test_lab7b

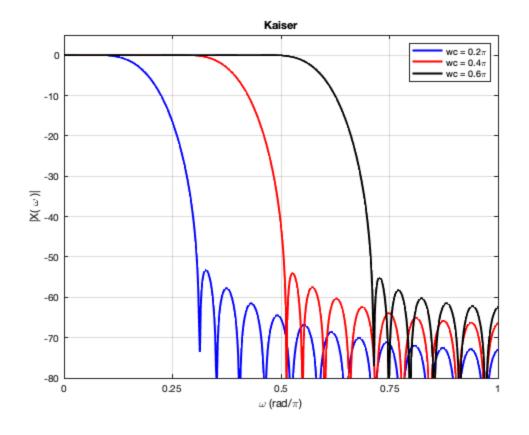


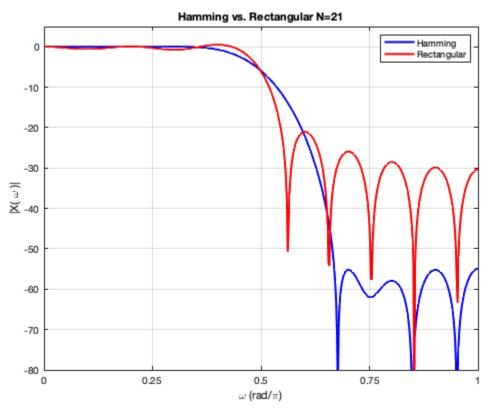


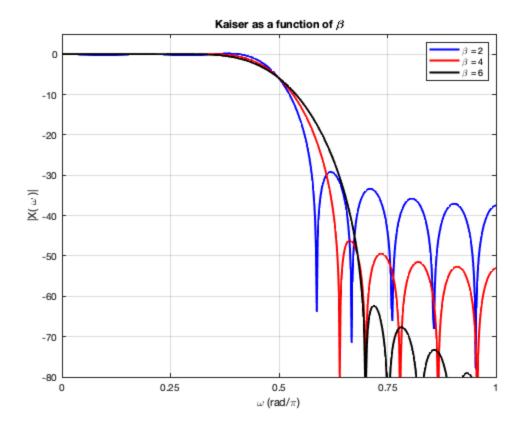


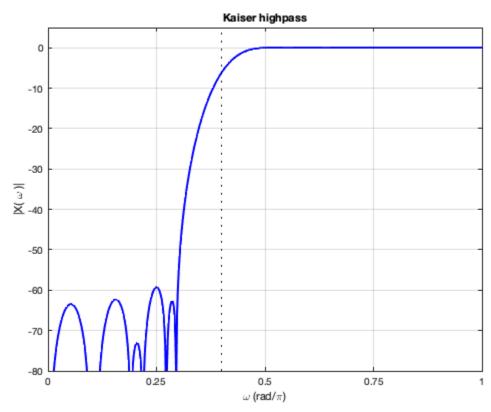












Part III: Phone tones

test_lab7c

Signal to noise ratio of row tones: 49.5022 Signal to noise ratio of column tones: 42.8118

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