
```

% SSA output script
close all

% Display significant oscillations
fprintf('The number of significant eigenvectors for each specie:\r
\n');
sum(sigEigDex)
chemNames

% The first 2 eigenvector of Cu
% The first eigenvector of Zn
% Uranium?

j = [1 2 1 1 2];
k = [5 5 6 10 10];

% Plot some eigs and periodograms
for i = 1:5
    figure()
    subplot(2,1,1)
    plot(eigvecs(:,j(i),k(i)));
    title(sprintf('%s eigenvector %i', chemNames{k(i)}, j(i)));
    subplot(2,1,2)
    periodogram(eigvecs(:,j(i),k(i)));
    title(sprintf('%s eigenvector %i periodogram', chemNames{k(i)},
j(i)));
end

[maxFreq, maxPeriod] = maxFreqPeriod( ...
    [eigvecs(:,1,5), eigvecs(:,2,5), eigvecs(:,1,6), eigvecs(:,1,10),
    eigvecs(:,2,10)])

totalTime = max(years) - min(years);

maxFreqTime = maxFreq ./ totalTime
maxPeriodTime = 1 ./ maxFreqTime

% Look at the RCs of Cu
figure()
subplot(3,1,1)
plot(years, spel_m0(:,5), 'Color', [0.7 0.7 0.7]); hold on;
plot(years, RC(:,1,5))
title('Cu RC 1');
subplot(3,1,2);
plot(years, spel_m0(:,5), 'Color', [0.7 0.7 0.7]); hold on;
plot(years, RC(:,2,5));
title('Cu RC 2')
subplot(3,1,3);
plot(years, spel_m0(:,5), 'Color', [0.7 0.7 0.7]); hold on;
plot(years, RC(:,2,5));
title('Cu RC 1+2')

```

```

% Look at RCs of U
figure()
subplot(3,1,1)
plot(years, spel_m0(:,10), 'Color', [0.7 0.7 0.7]); hold on;
plot(years, RC(:,1,10))
title('U RC 1');
subplot(3,1,2);
plot(years, spel_m0(:,10), 'Color', [0.7 0.7 0.7]); hold on;
plot(years, RC(:,2,10));
title('U RC 2')
subplot(3,1,3);
plot(years, spel_m0(:,10), 'Color', [0.7 0.7 0.7]); hold on;
plot(years, RC(:,2,10));
title('U RC 1+2')

```

The number of significant eigenvectors for each specie:

ans =

0	0	0	0	2	1	0	0	0	600
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chemNames =

'Na'	'Mg'	'Al'	'P'	'Cu'	'Zn'	'Sr'	'Ba'	'Y'
'U'								

maxFreq =

1.0e-03 *				
0	0.9766	0	0	0.9766

maxPeriod =

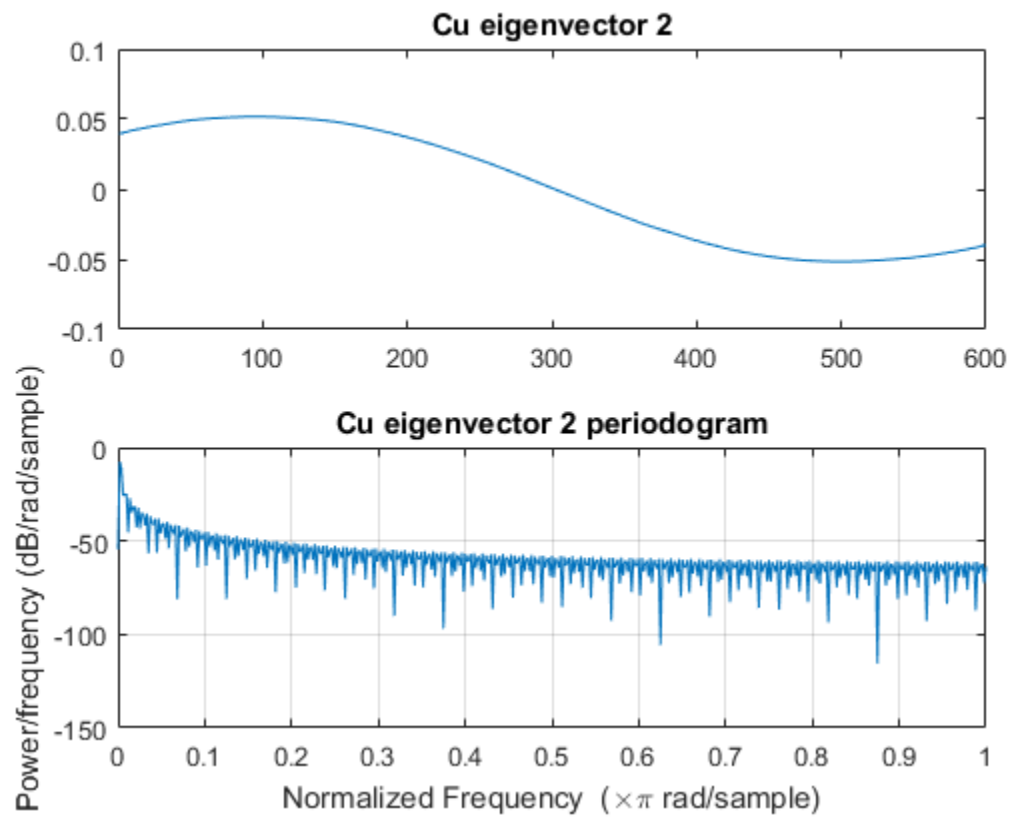
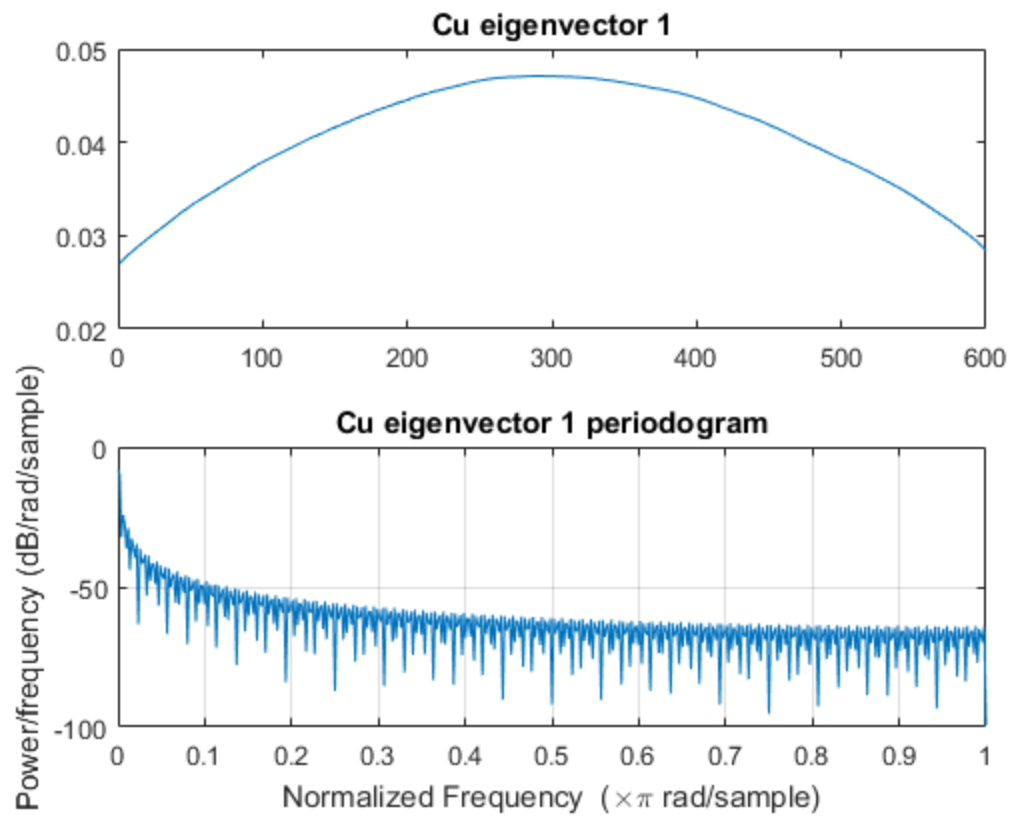
Inf	1024	Inf	Inf	1024
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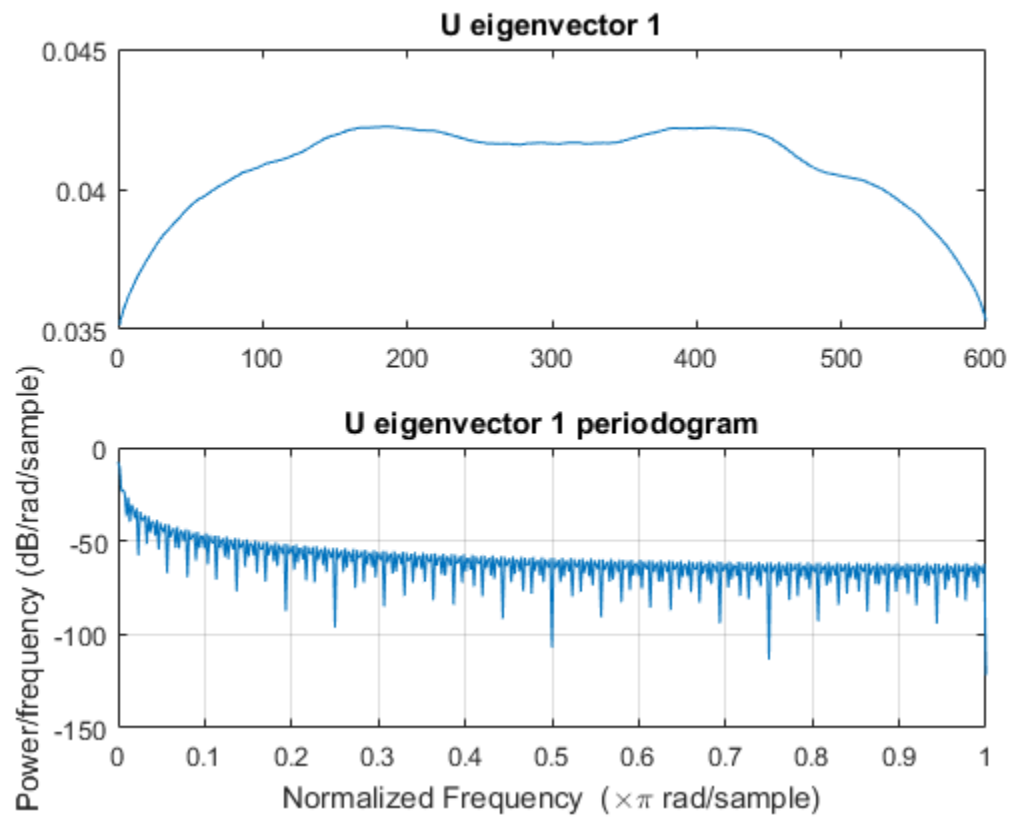
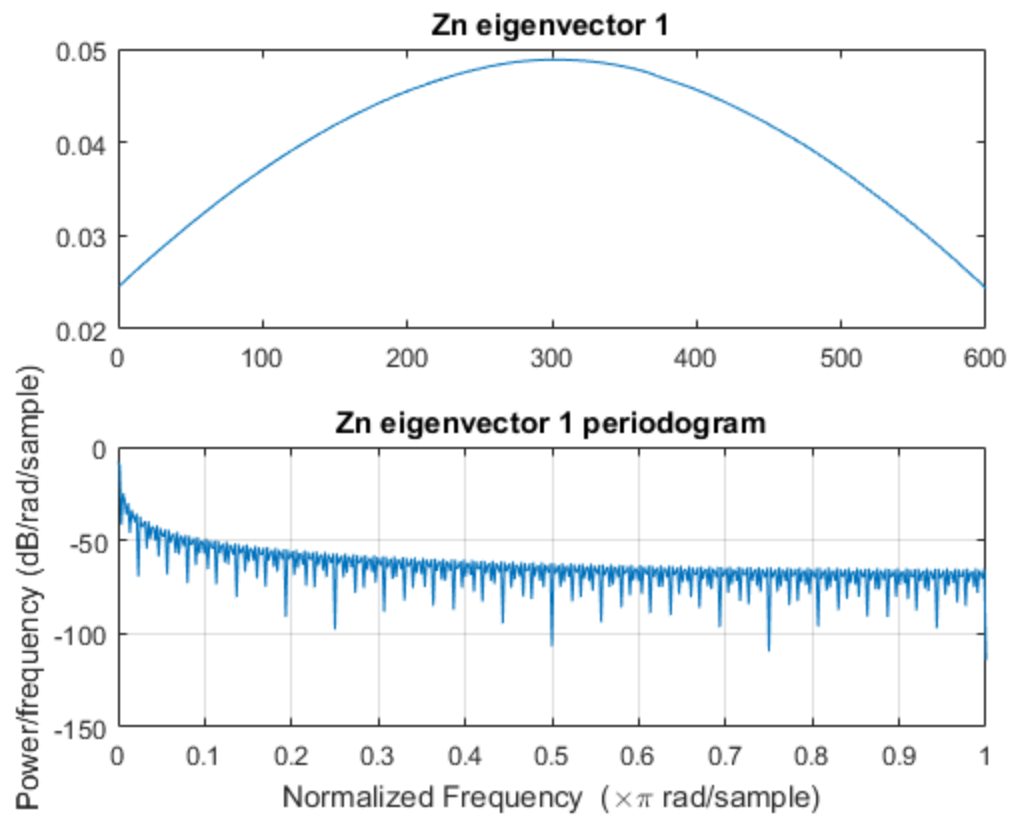
maxFreqTime =

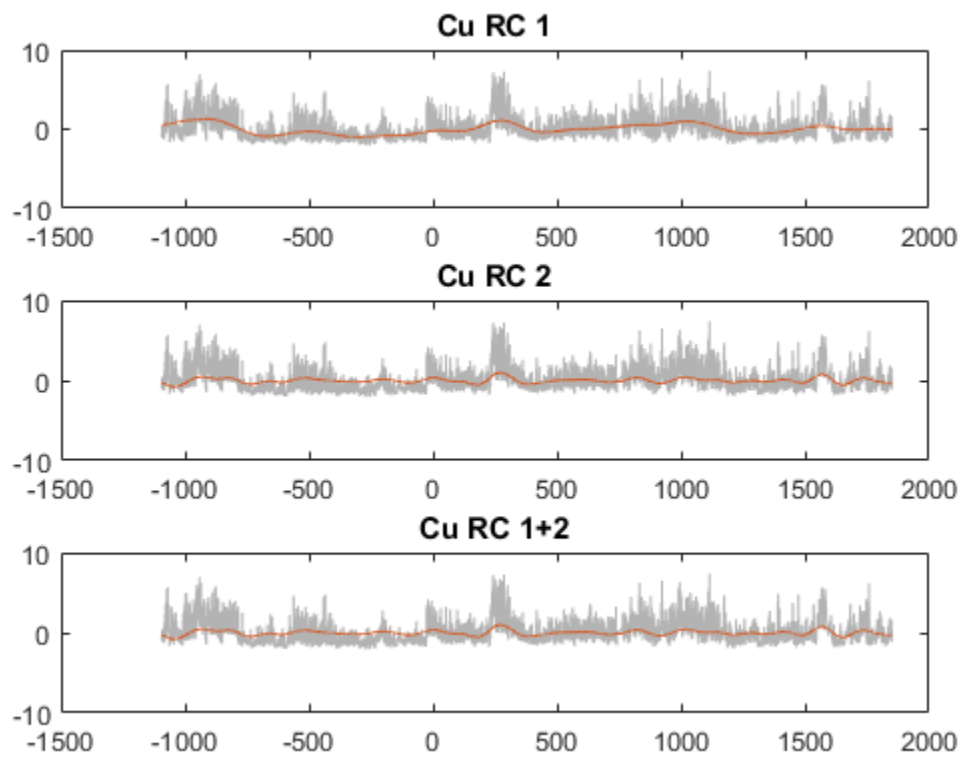
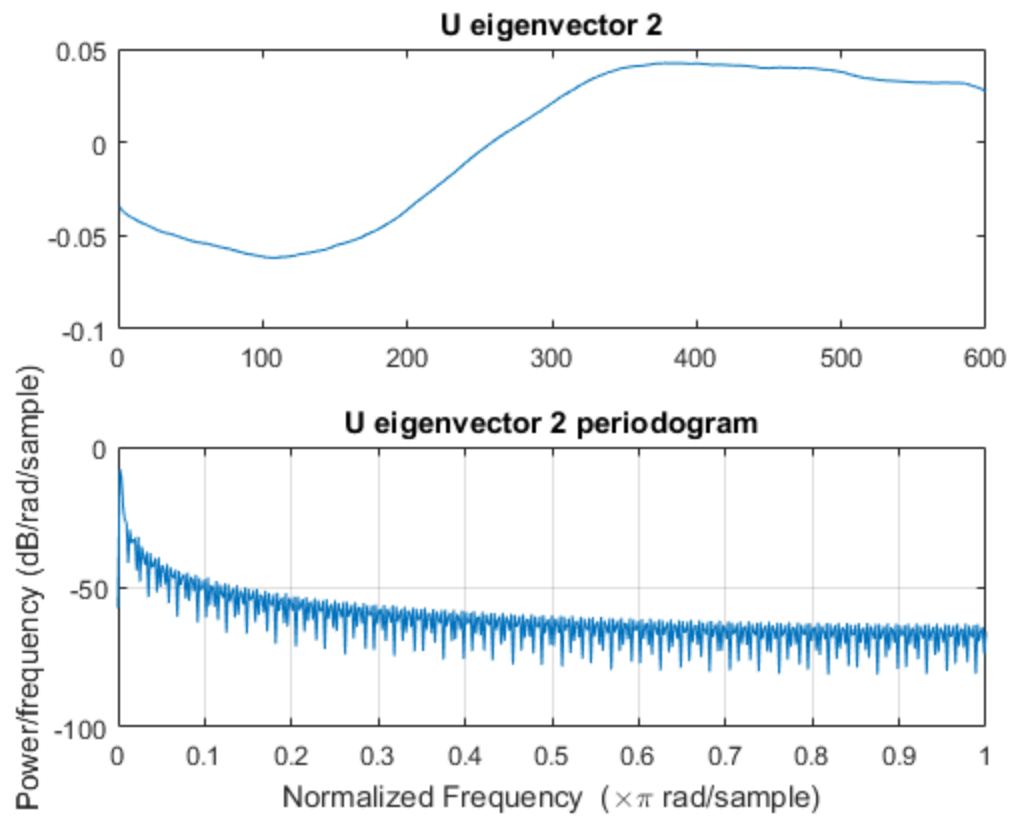
1.0e-06 *				
0	0.3317	0	0	0.3317

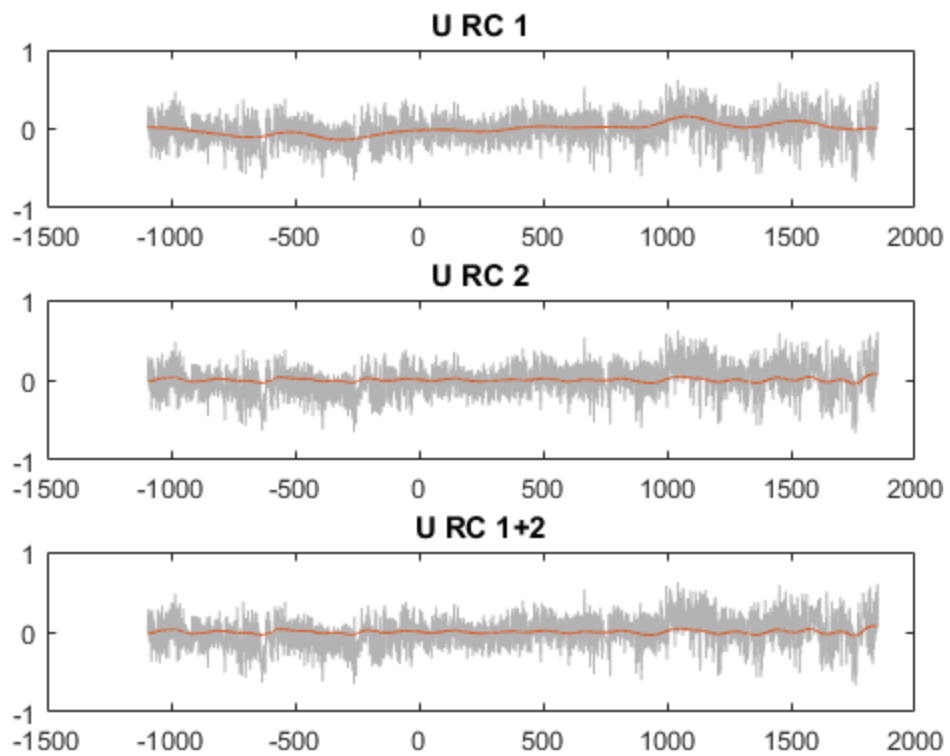
maxPeriodTime =

Inf	3014400	Inf	Inf	3014400
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