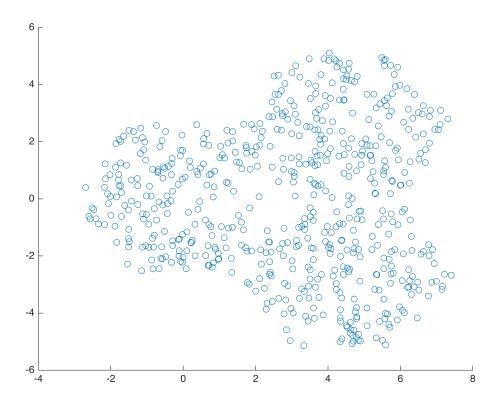
Illustrative Test

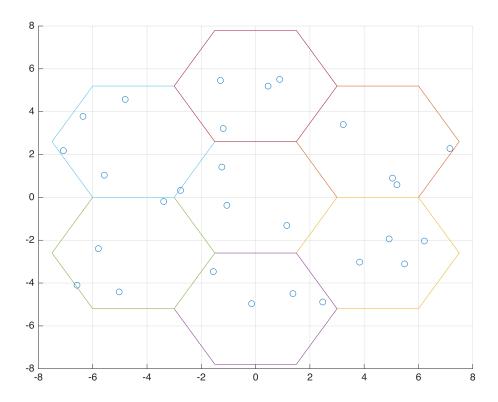
```
r = 3;
k = 200;
l = 3;
network = Network(r, k, l);
points = network.getUsers();
scatter(points(:, 1), points(:, 2))
```



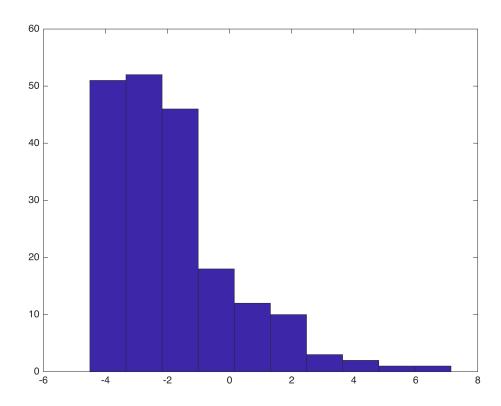
Realistic Test

```
r = 3;
k = 4;
l = 7;

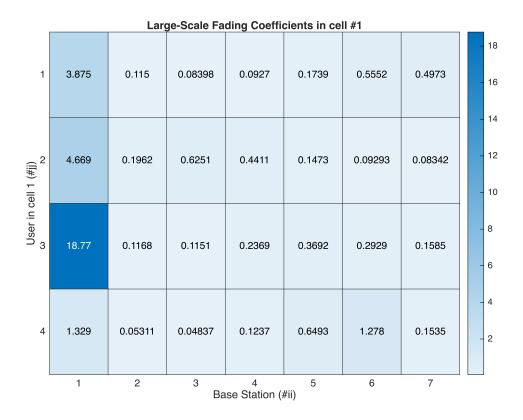
network = Network(r, k, l);
points = network.getUsers();
figure
network.tracePerimeters(true);
hold on
scatter(points(:, 1), points(:, 2))
hold off
grid on
```

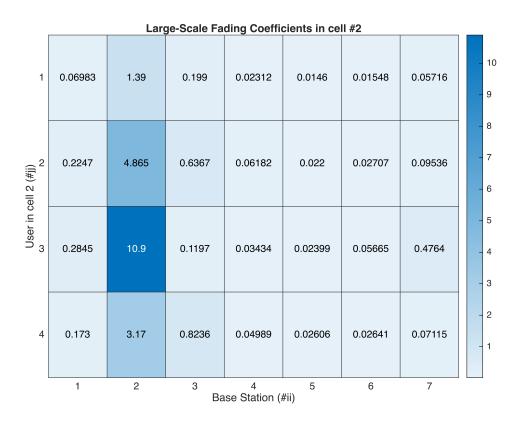


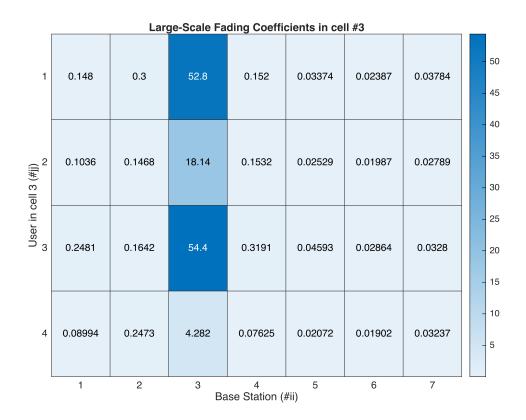
```
lsfcs = network.calculateLSFCs();
hist(log(lsfcs(:)))
```

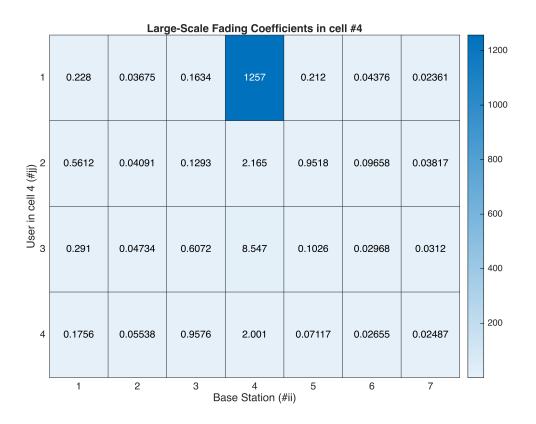


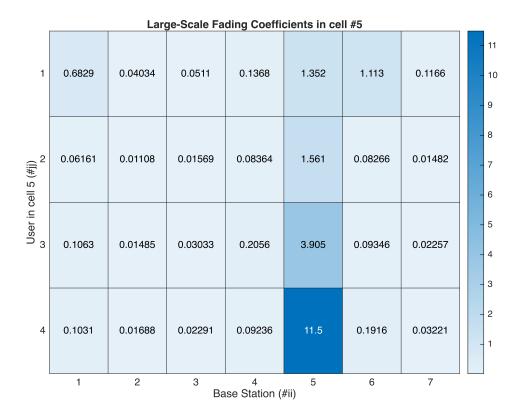
```
for ii = 1:l
    figure
    heatmap(squeeze(lsfcs(:, ii, :)))
    xlabel("Base Station (#ii)")
    ylabel("User in cell " + ii + " (#jj)")
    title("Large-Scale Fading Coefficients in cell #" + ii)
end
```

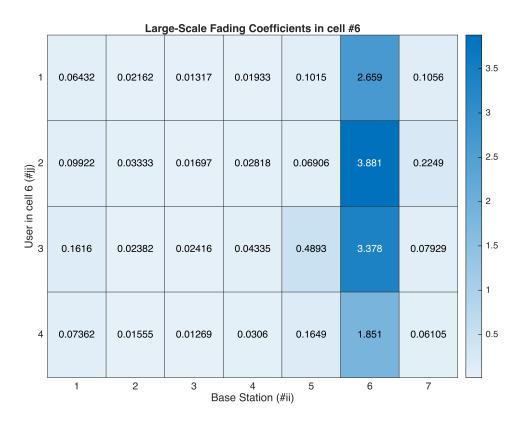


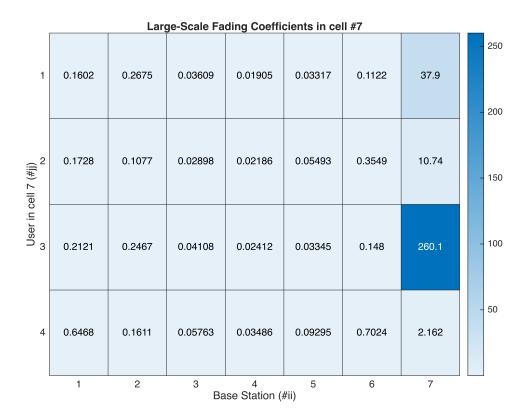






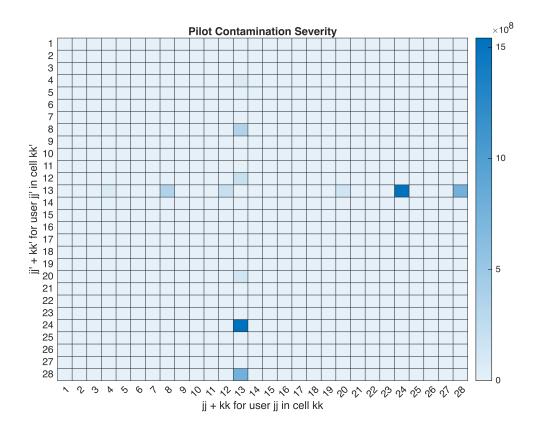




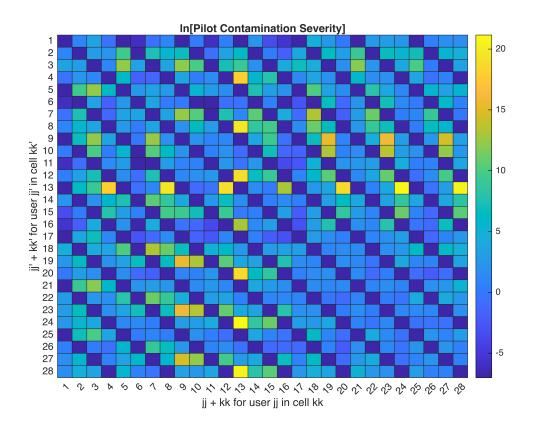


PCS

```
zetas = network.pilotContaminationSeverities(true);
zetas2 = network.pilotContaminationSeverities(false);
figure
heatmap(zetas)
xlabel("jj + kk for user jj in cell kk")
ylabel("jj' + kk' for user jj' in cell kk'")
title("Pilot Contamination Severity")
```



```
figure
heatmap(log(zetas), "Colormap", parula)
xlabel("jj + kk for user jj in cell kk")
ylabel("jj' + kk' for user jj' in cell kk'")
title("ln[Pilot Contamination Severity]")
```



Spot Check