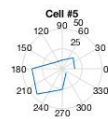
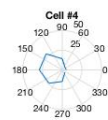
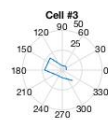
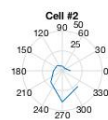
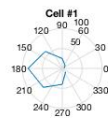


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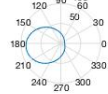
Jonathan Levine  
jonlevi@sas.upenn.edu

March 22, 2018

# Problem 1



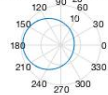
Von Mises Fit (Same as to the Right but Polar)



Von Mises Fit (Same as to the Right but Polar)



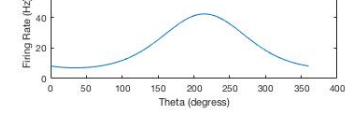
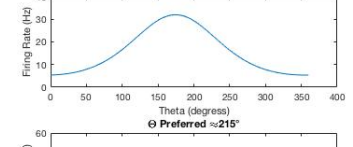
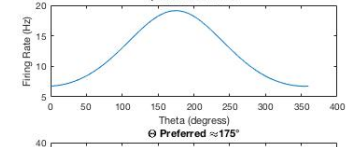
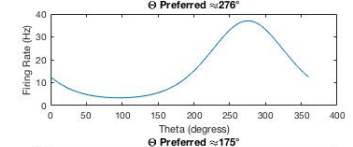
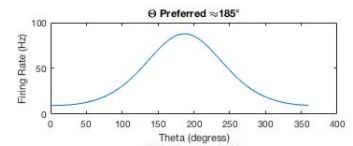
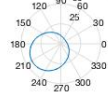
Von Mises Fit (Same as to the Right but Polar)



Von Mises Fit (Same as to the Right but Polar)



Von Mises Fit (Same as to the Right but Polar)



## Problem 2

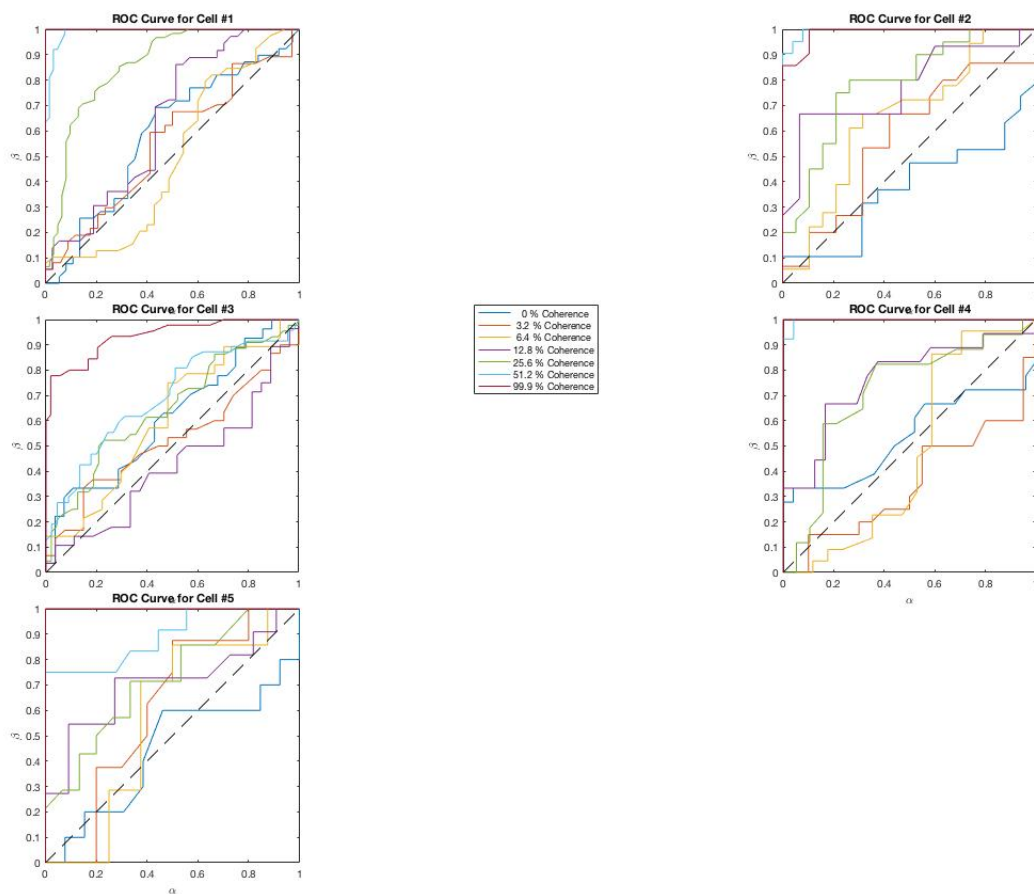


Table 1: Areas Under the ROC Curves

|       | 0%    | 3.2%  | 6.4%  | 12.8% | 25.6% | 51.2% | 99.9% |
|-------|-------|-------|-------|-------|-------|-------|-------|
| Cell1 | 0.587 | 0.551 | 0.495 | 0.642 | 0.859 | 0.990 | 1     |
| Cell2 | 0.375 | 0.572 | 0.651 | 0.776 | 0.786 | 0.994 | 0.986 |
| Cell3 | 0.610 | 0.523 | 0.605 | 0.425 | 0.645 | 0.690 | 0.935 |
| Cell4 | 0.538 | 0.353 | 0.476 | 0.764 | 0.711 | 0.997 | 1     |
| Cell5 | 0.442 | 0.613 | 0.571 | 0.707 | 0.719 | 0.891 | 1     |

## Problem 3

