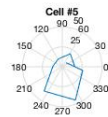
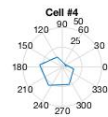
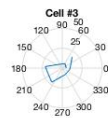
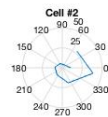
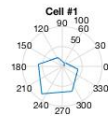


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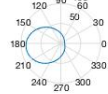
Jonathan Levine  
jonlevi@sas.upenn.edu

March 21, 2018

# Problem 1



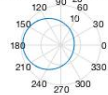
Von Mises Fit (Same as to the Right but Polar)



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



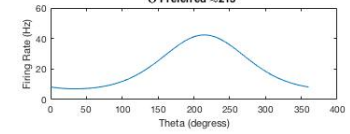
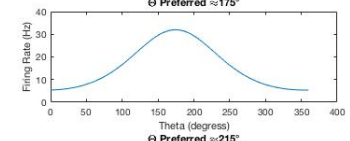
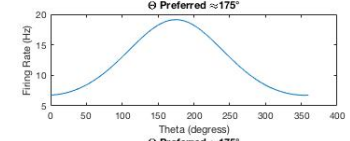
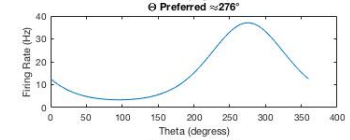
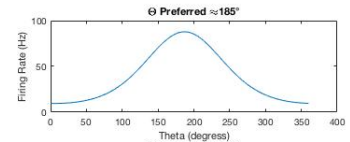
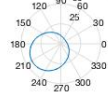
Von Mises Fit (Same as to the Right but Polar)



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



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



## Problem 2

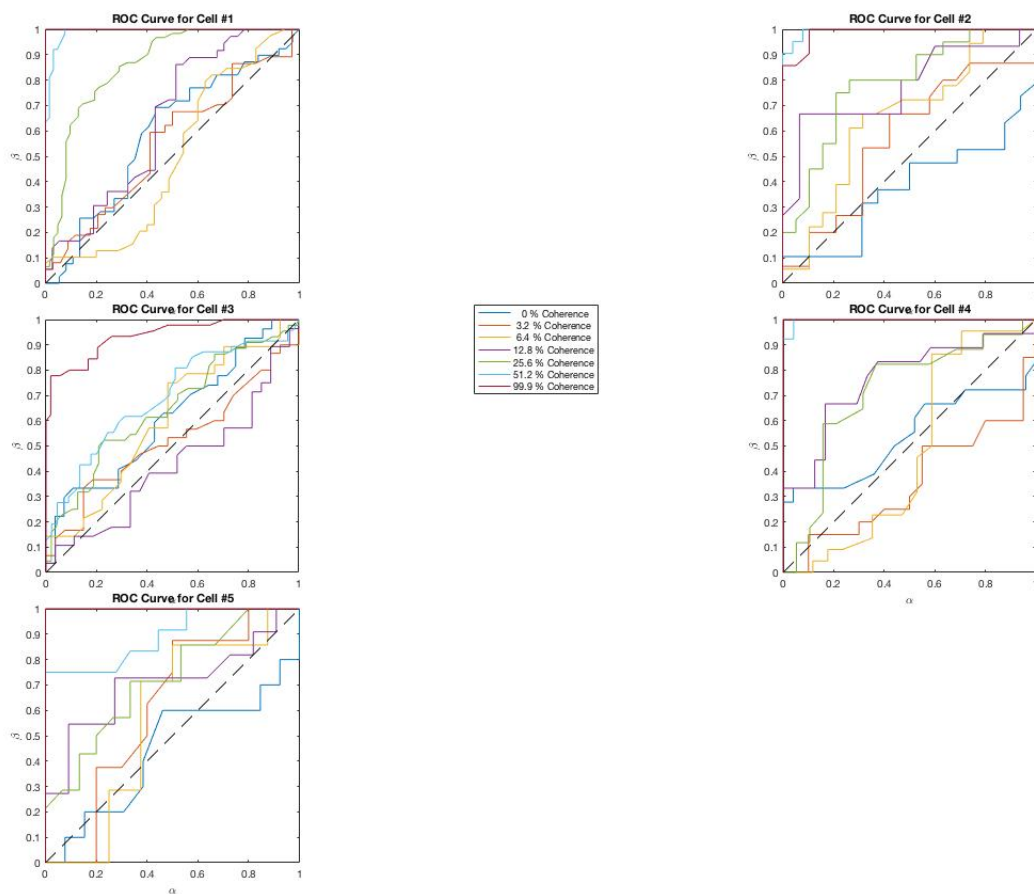


Table 1: Areas Under the ROC Curves

	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

