
Matlab 5

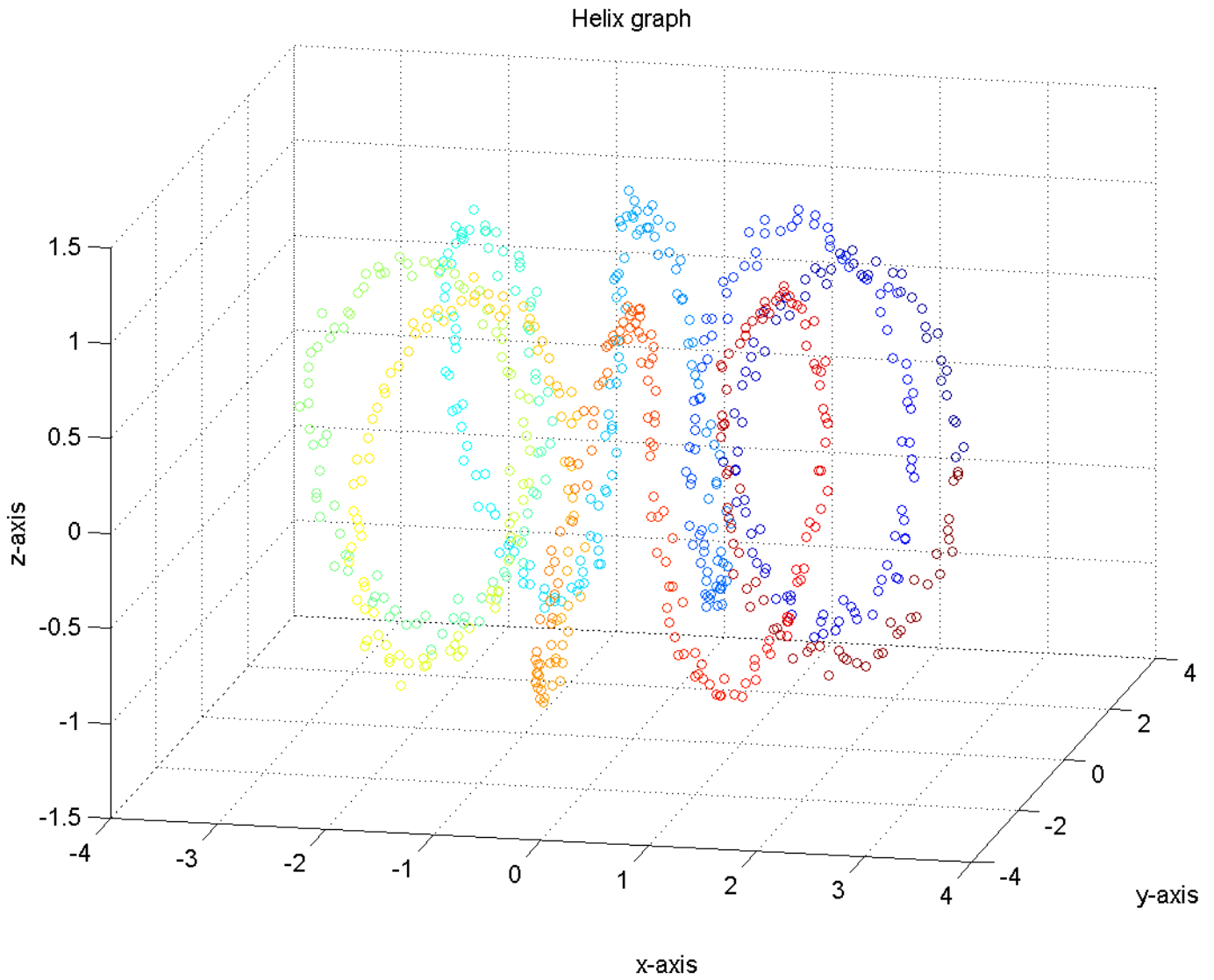
Mikhail Andreev

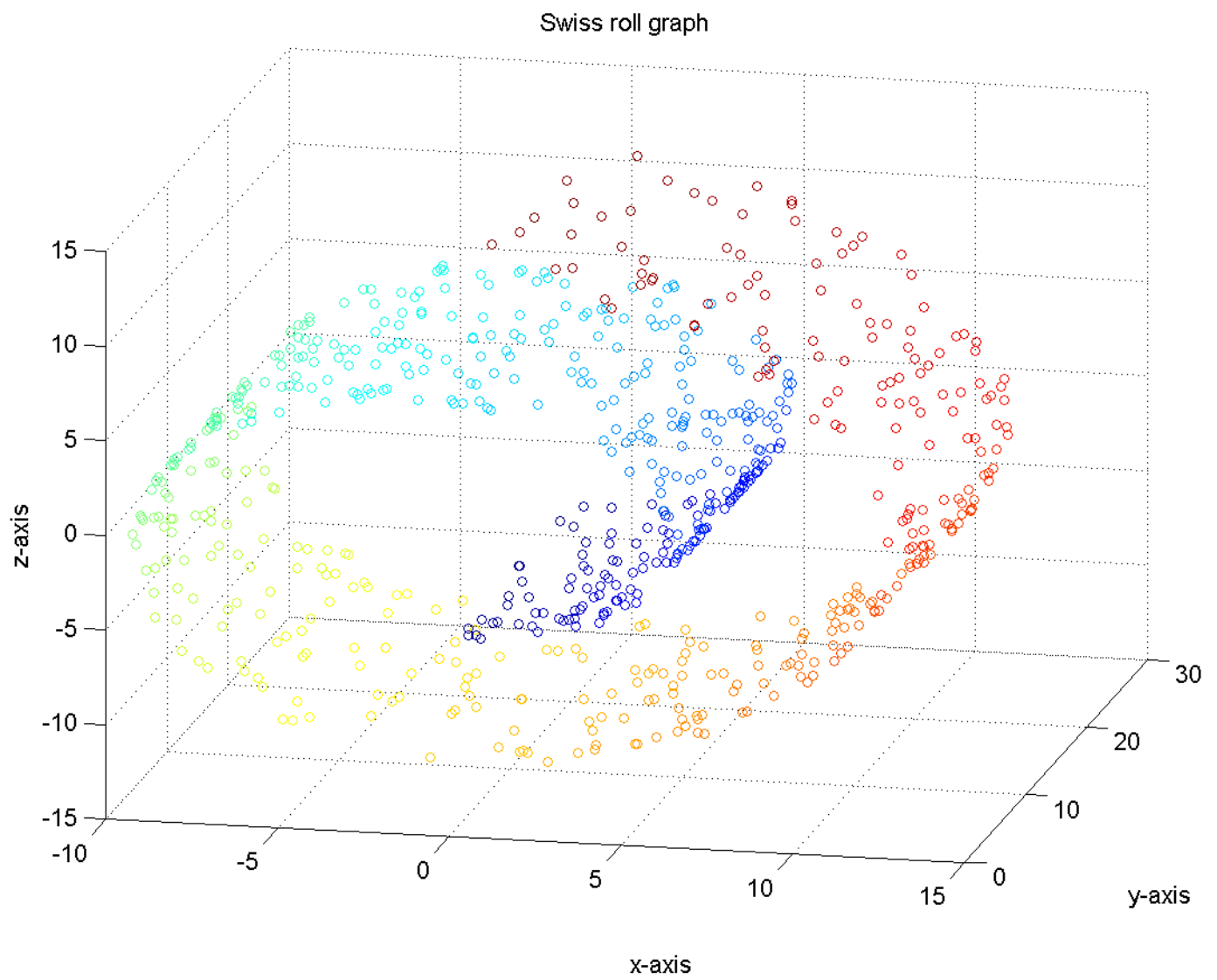
December 4, 2015

1 K-MEANS VS. SPECTRAL CLUSTERING

1.1 PART A

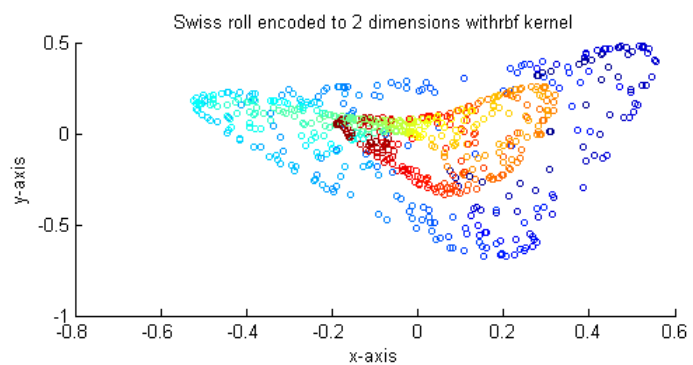
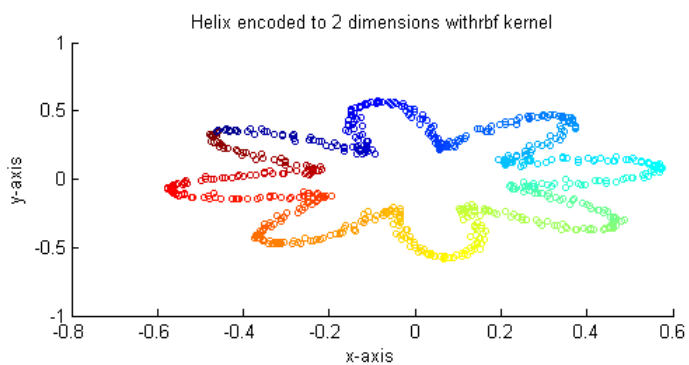
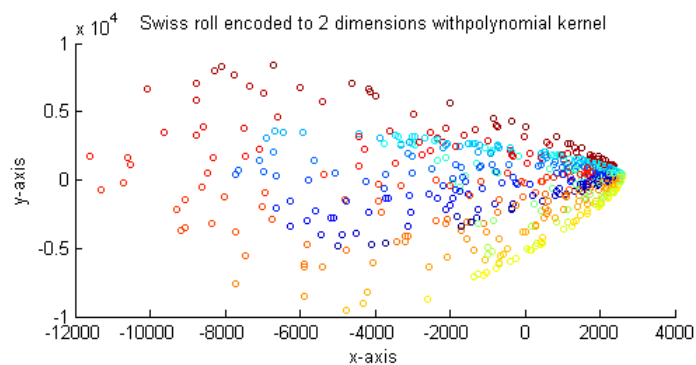
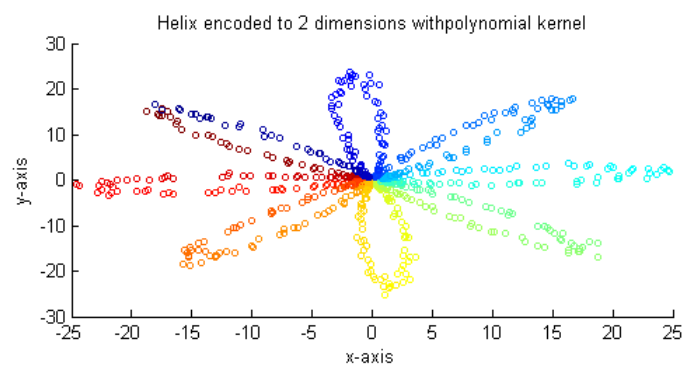
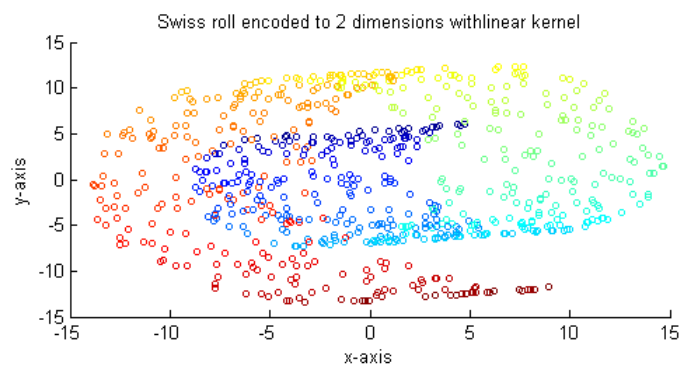
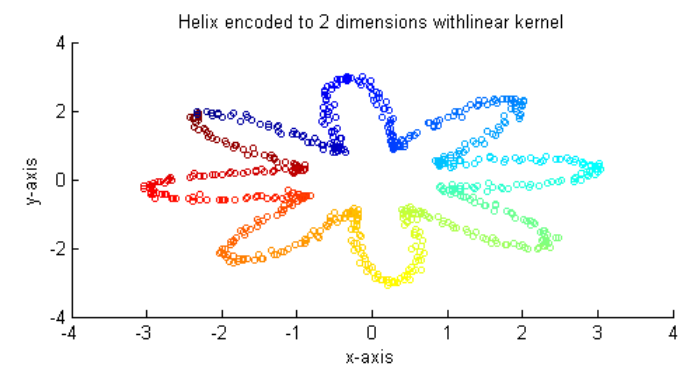
Using the .mat data provided we can view the helix and the swiss roll:





1.2 PART B

Performing KPCA with the linear, polynomial, and rbf kernels returns the following graphs:



1.3 PART C

1.4 PART D

1.5 PART E