

Math 149: Second Problem Set

January 30, 2014

This should be completed by Tuesday, February 11. You will need to familiarize yourselves with Javaplex, available at comptop.stanford.edu.

1. Construct samples from the torus, Klein bottle, and projective plane, and run Javaplex to confirm that the barcodes are consistent with your earlier by hand calculations for these spaces
2. Sample from the sphere, and verify that Javaplex gives the expected result.