

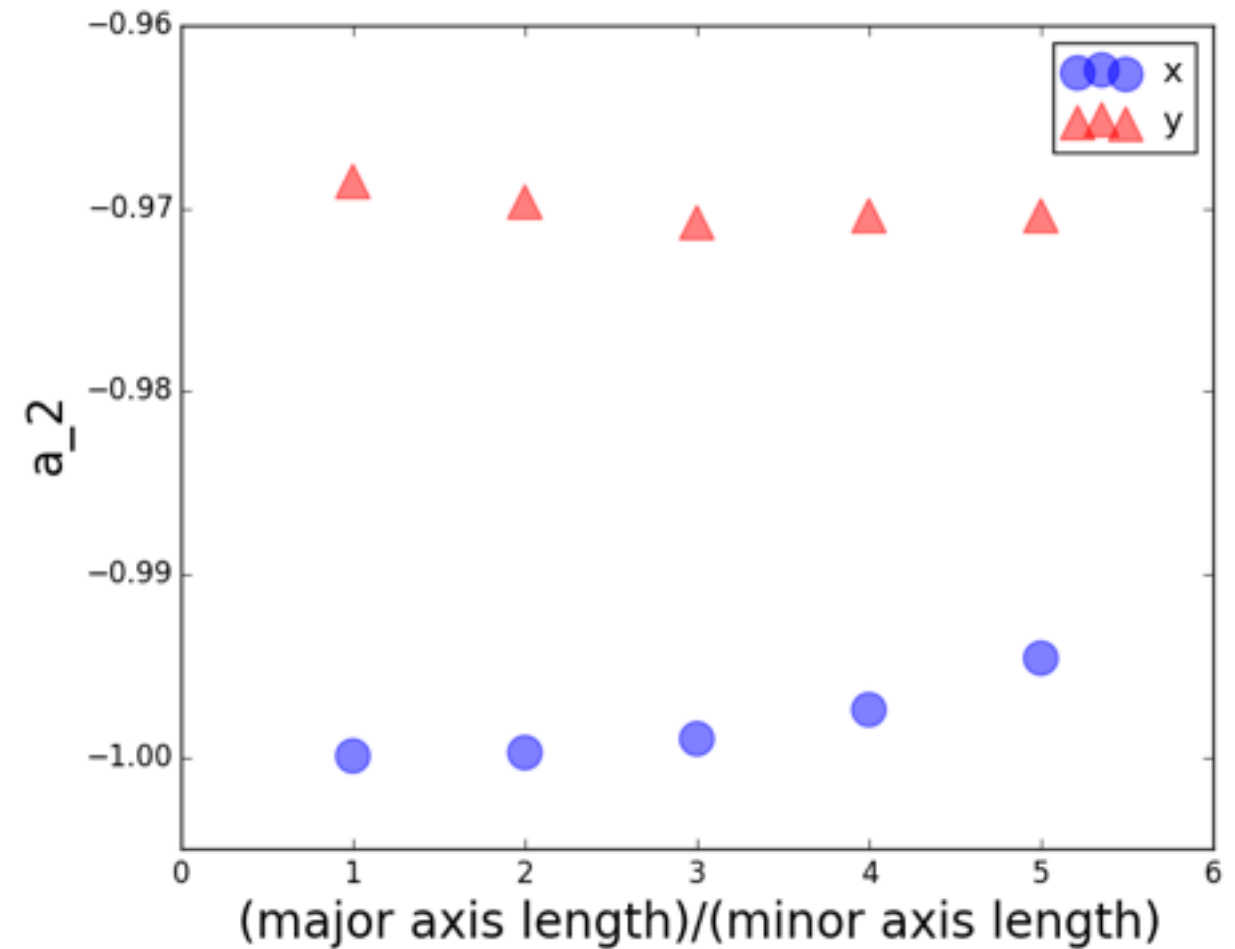
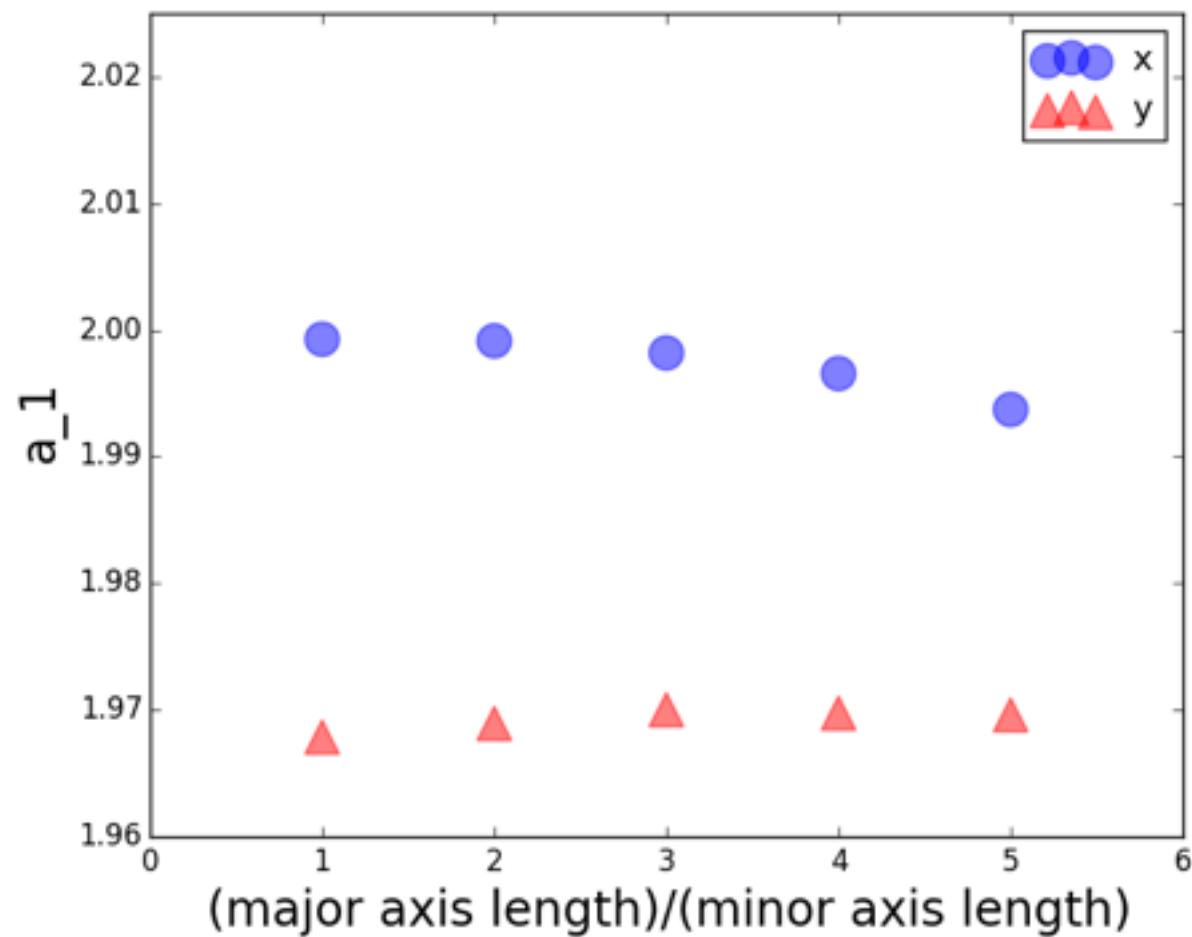
Linear Prediction Tests: Circles vs. Ellipses

April 19, 2016

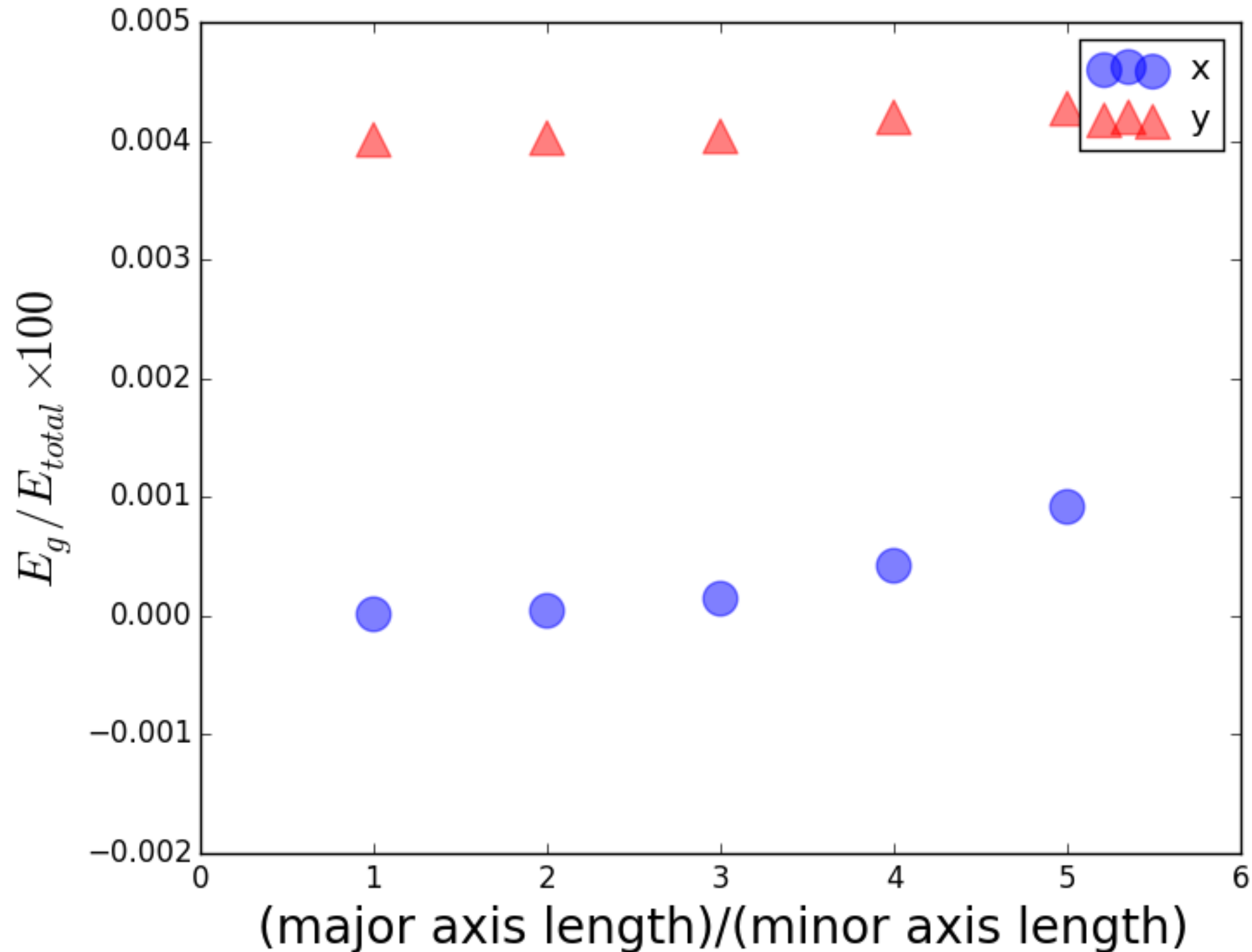
Test Details

- Ratio of major to minor axis in the range $[1,5]$.
- Method 1: Predict $x[n]$ and $y[n]$ separately with $p = 2$.
 - Compare a_1 and a_2
 - Compare percent energy in linear prediction error ($g[n]$)
- Method 2: Start with $q[0] = x[0] + j*y[0]$, then multiply by a phase, $q[n] = \exp[j*w*n]*q[n-1]$
 - Compare percent energy in linear prediction error ($g[n]$)

Method 1: Compare a_1 and a_2



Method 1: Compare percent energy in linear prediction error (g[n])



Method 2: Compare percent energy in linear prediction error (g[n])

