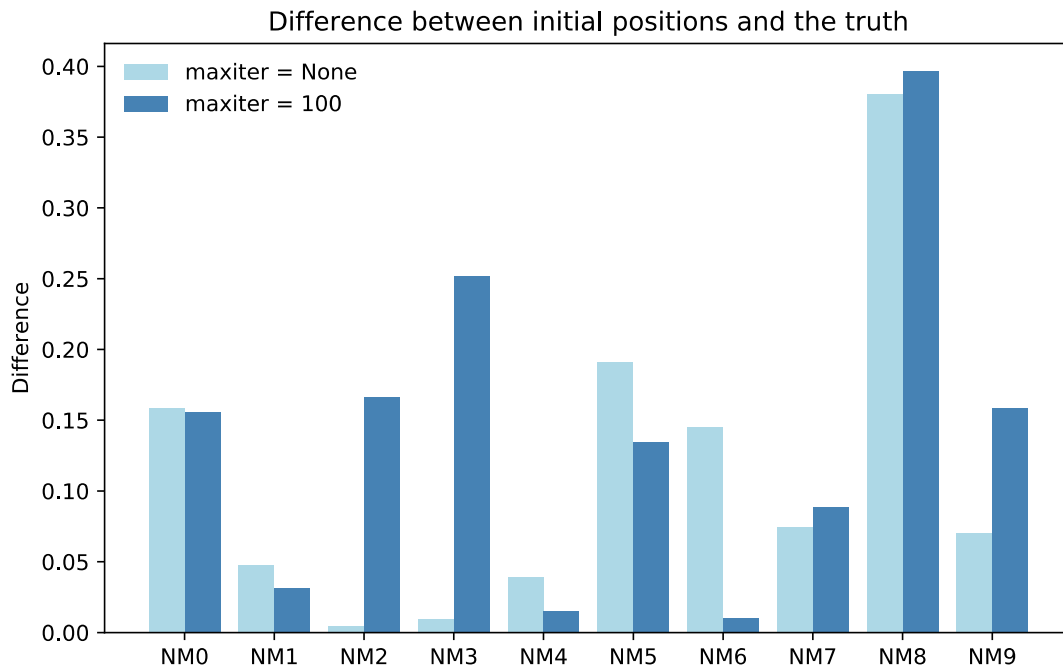


GQPMC Report

James Kyubin Kwon

1. Method Test; Nelder-Mead Max Iteration - Accuracy

The plot is attached below:

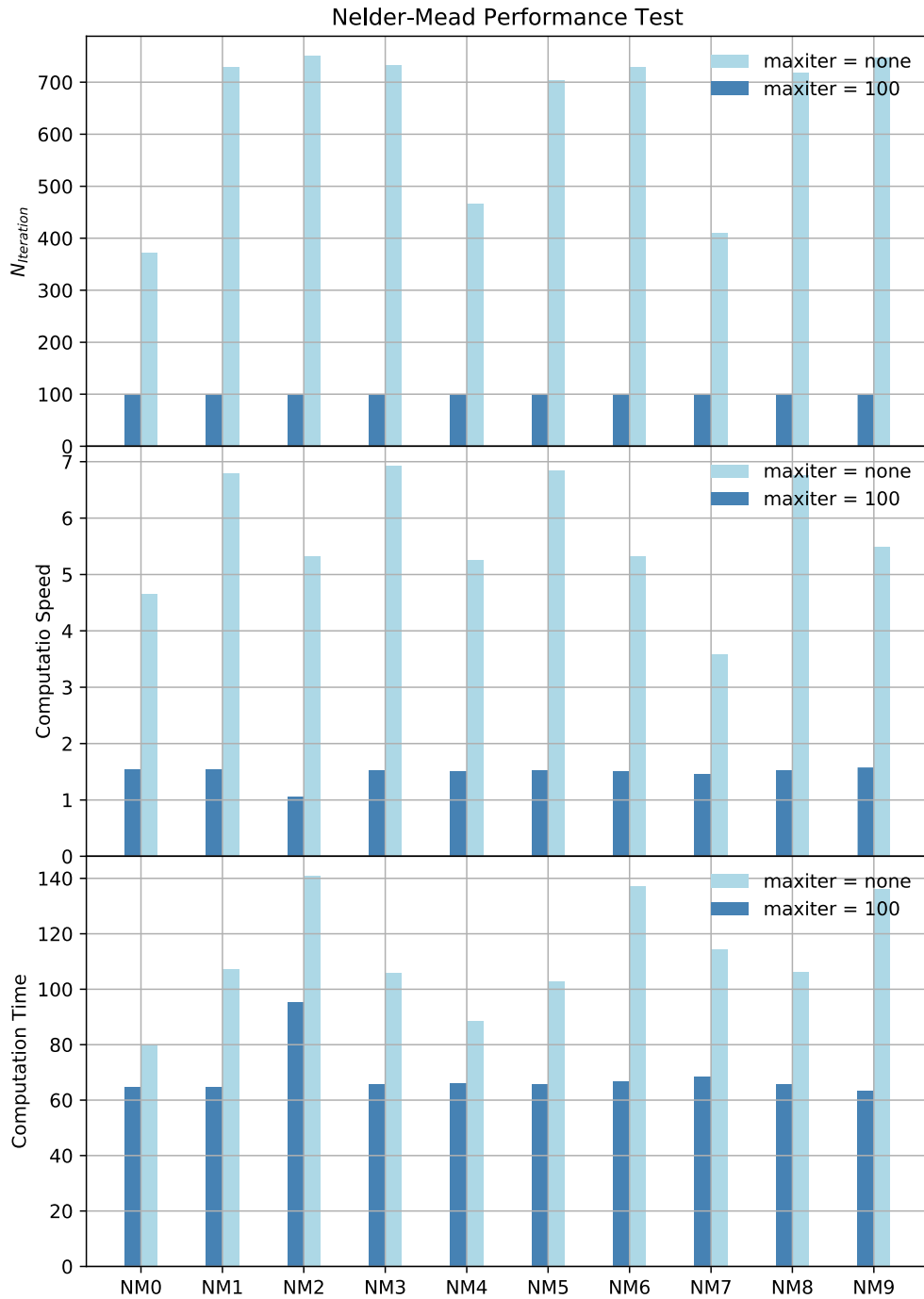


Result Summary

- Half of the galaxies showed better performance with max iteration = None, which gives a bit inconclusive result.
- Given that NM2 and NM3 showed significantly increased accuracy with maxiter = None, while only maxiter = None was outperformed by maxiter = 100 in NM6, it looks like changing the maxiter to None will be effective.

2. Method Test; Nelder-Mead Max Iteration – Performance Test

The plot is attached below:



Result Summary

- a) Considering the computation speed and computation time required to get optimization done, there doesn't seem to exist significant slow-down resulting from removing the upper-limit of max iteration number. Of course, one could just increase the upper limit of the max iteration number instead of setting it to None.