Selected Modeling Choices

Key Differences between the CMA DGG and PCMA DGG

- Originally, zippering was an attachment rule.
- Zippering now works to enforce a separation distance[1] of $\sigma_{sep} \approx 25nm$
- Addition of CLASP boundary rules.
- Added creation rules.
- Simplification of collision rules.

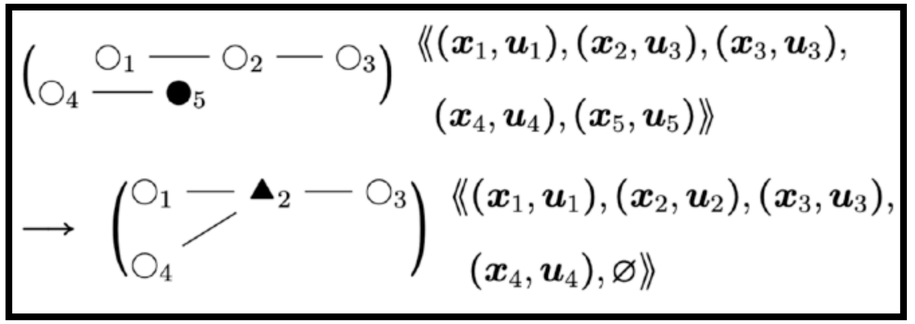

Figure 40: Previous Zippering Rule[2].

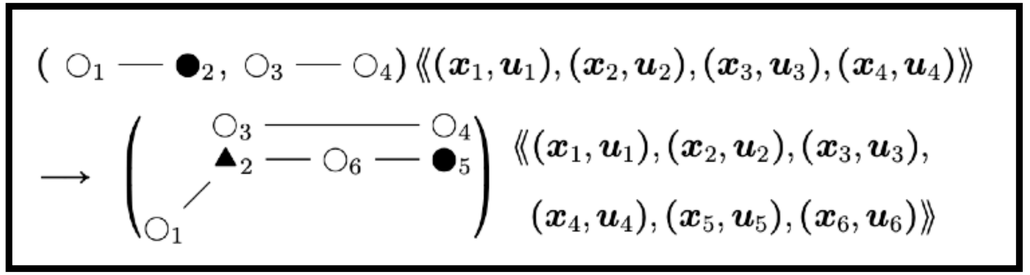

Figure 41: New Zippering Rule used in this model.

1. (Chan et al., 1999); 2. (Medwedeff and Mjolsness, 2023)

Methods of Analysis

Interpreting the Correlation Results

- Measurements:

    1. The correlation distance function is measured every 24 seconds of biological time.

        - Local correlation is the average over the first third.

        - Global correlation is the average of the entire distance.

        - The mean of all samples at each point of measurement is then curve-fit.

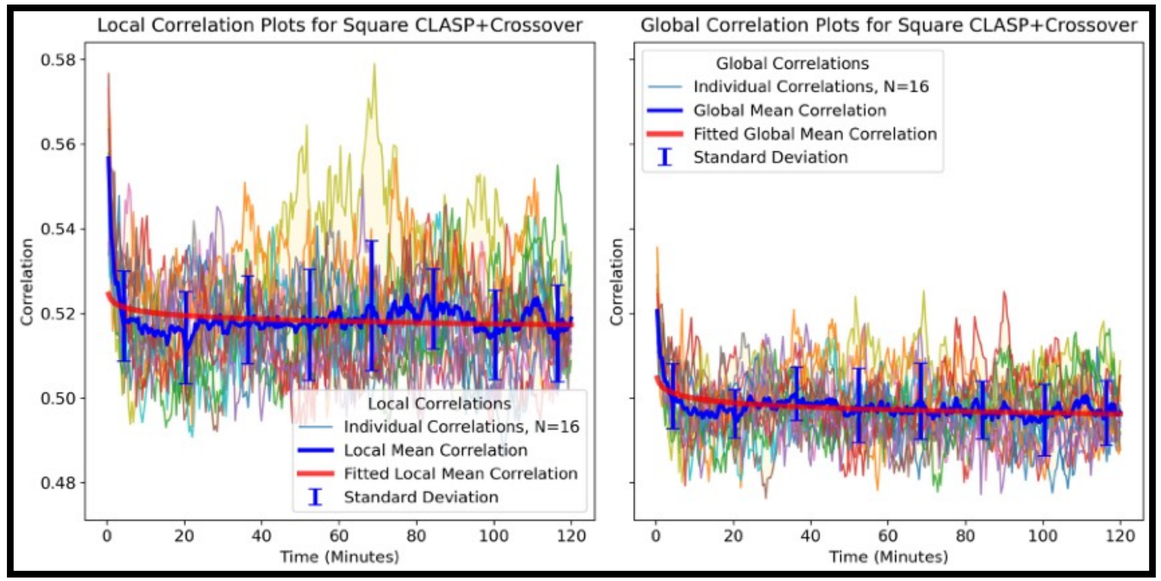

Figure 42: Plots of local correlations (left) and global correlations (right).