

The figure displays the time evolution of the order parameter S for five different runs (run 0 to run 4) and their statistical summary. The x-axis represents the iteration number from 0 to 200, and the y-axis represents the order parameter S from 0 to 1.0. The legend indicates the following series:

- run 0 (blue solid line)
- run 1 (green solid line)
- run 2 (red solid line)
- run 3 (purple solid line)
- run 4 (yellow solid line)
- mean of means (light blue solid line)
- +STD (blue dashed line)
- STD (green dashed line)

The plot shows that all runs start at $S \approx 0$ and remain low until approximately iteration 50. After this point, the order parameter increases sharply and exhibits high-frequency oscillations between approximately 0.2 and 1.0. The mean of means (light blue line) and the standard deviation (dashed lines) provide a summary of the overall behavior and its variability across the five runs.

