

Incremental Update

Local updates and global state synchronization of matches

- Following a rewrite event:
 1. Component invalidation
 2. Rule match invalidation
 3. Component matching
 4. Component validation
 5. Rule matching
 6. Rule match validation
- The incremental update is spatially local.
- The component matches are fully online and only incrementally updated.
- Rule matches are semi-online and incrementally within a geocell.
 - Recomputed as needed during synchronization.

Sample Simulation

Putting the pieces together and a callback to the goals.

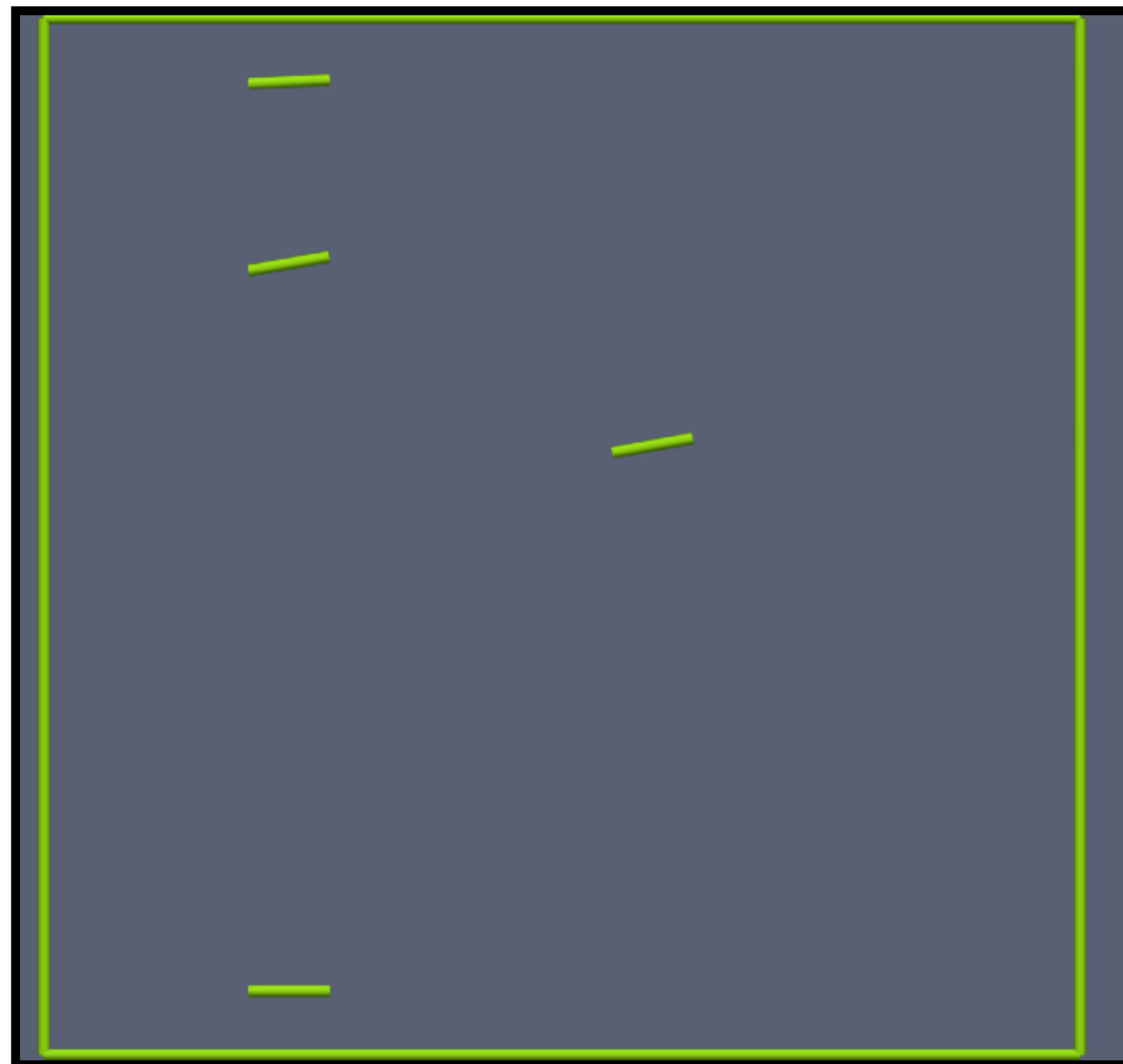


Figure 26: Simulation no graph nodes shown.

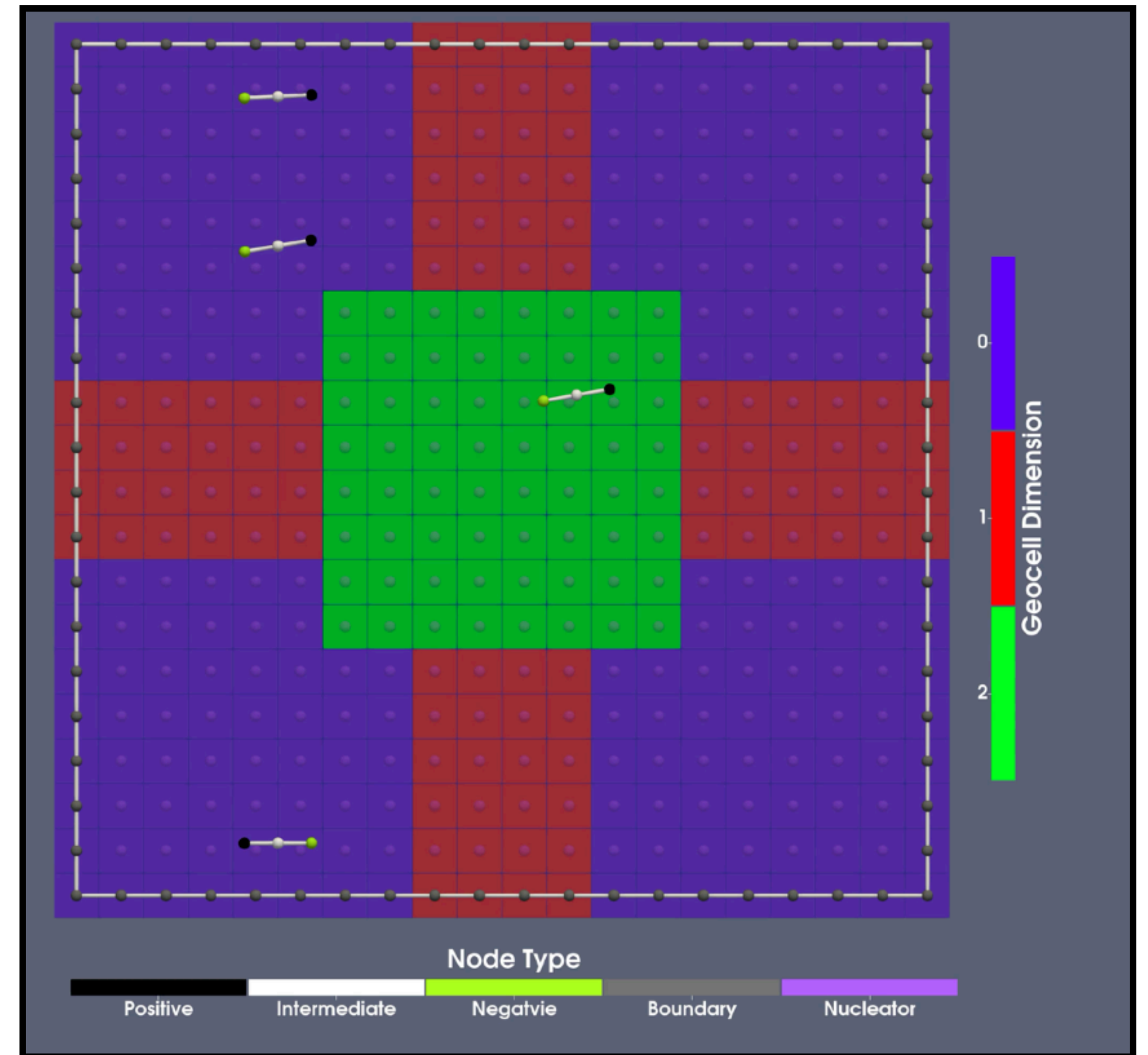


Figure 27: Simulation with graph nodes shown.