Overview and Motivation

The Plant Cell Cortical Microtubule Array (CMA) DGG

- We had three scenarios:
  - In scenario 1 we found long-time network like behavior.
  - In scenario 2 we found long-time behavior of local alignment.
  - In scenario 3 we found evidence indicating the approximate algorithm is faster than the exact, even in serial.

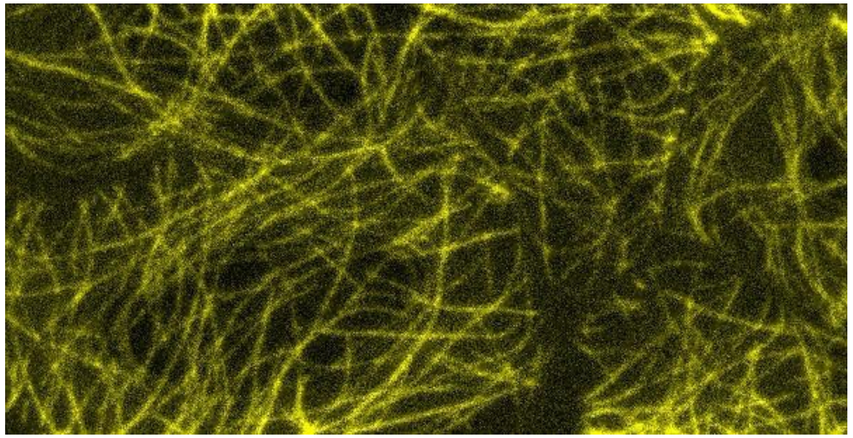
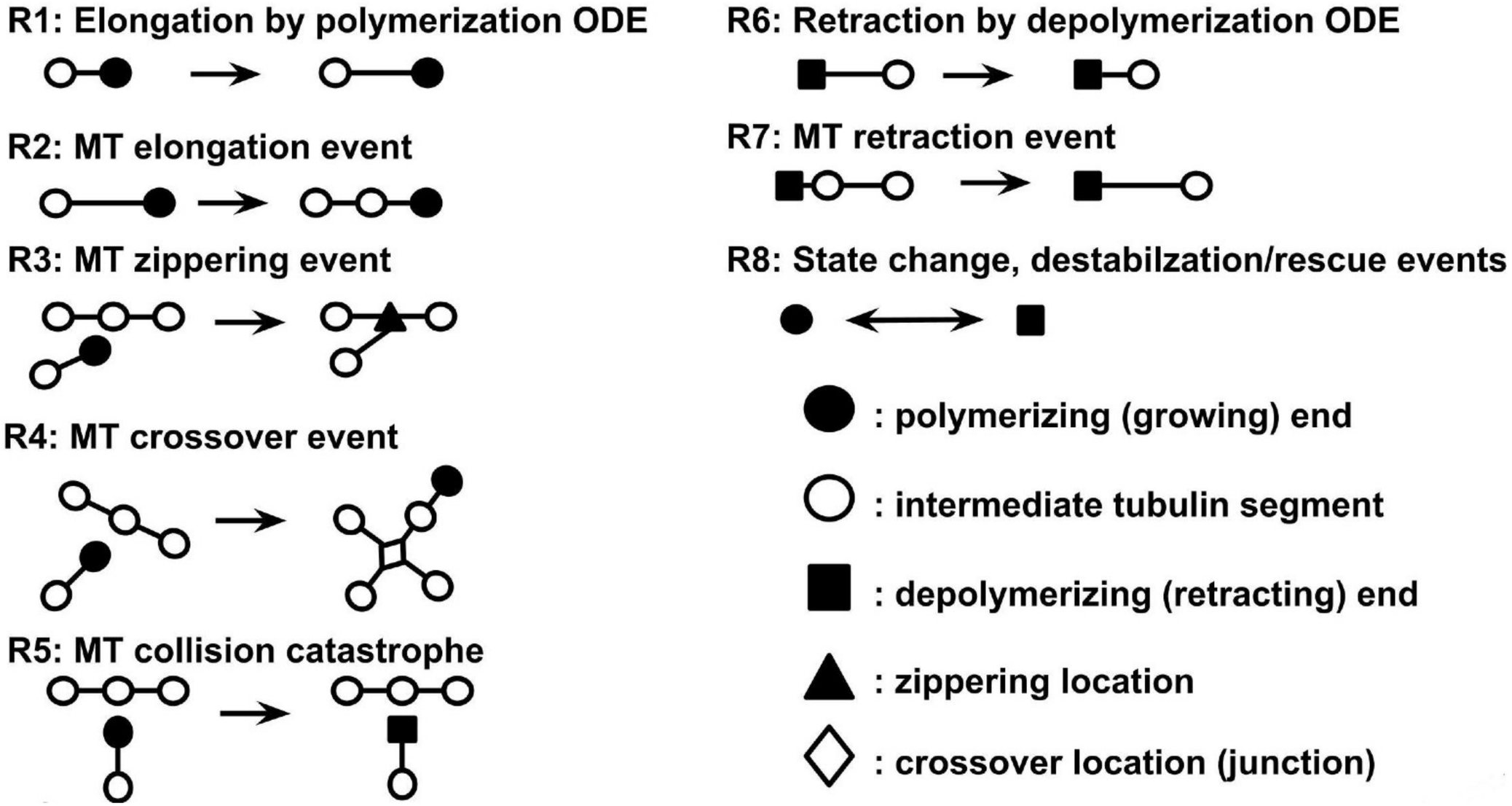


Figure 30: Cortical microtubules in Arabidopsis petiole cells[1].

1. (Mjolsness and Wightman) unpublished image data

2. (Medwedeff and Mjolsness, 2023); 3. (Tindemans et al., 2010)

Dynamical Graph Grammar for the Cortical Microtubule Array (CMA)



(Medwedeff and Mjolsness, 2023)