Meeting Notes:

Can make many simplifying assumptions for project – okay for simple model for scope of this classs

Chris showed bacterial project growing like cylinders

2 Types, some split off some don’t

Form spacial patterns from solving ODEs for position + contact

How to time step?

Villa Method

Verlet time intergation

Parallel Approaches – see <http://www.cfm.brown.edu/people/jansh/page5/page10/page40/assets/Field_Talk.pdf>

Splitting up work load in space (domain decomposition)

Parallelism in Time

Integration scheme where components are independent

Parareal Algorithm – see Chris’ email

Euler for Mol Dynamics may not be full scope – add extra components like time integration or parallelism

Multiple Body – discrete actors

Software libraries for voronoi tessellations – for space closer to each “cell”