Basic framework for particle-mesh code (8/5/13)

Initialization:

* allocate memory for position, momentum, density, and potential **DONE**
* construct grid space (box size) **DONE**
* define time steps size and number **DONE?**
* initialize particles in physical space (including mass) **DONE**
* convert to dimensionless values **DONE?**

Assigned to: Rodrigo

Poisson Solver:

Part 1) **DONE**

* density to delta(r)
* delta(r) to delta(k)
* delta(k) to phi(k)
* phi(k) to phi(r)

Assigned to: Tim

Part 2)

* using updated particles, solve for new density field

**DONE FOR BOTH NGP AND CIC**

* update momenta **DONE**
* update position **DONE**

Assigned to: Sarah/Rodrigo

Output:

* Print out position, velocity, and density to file **DONE**

Assigned to: Rodrigo