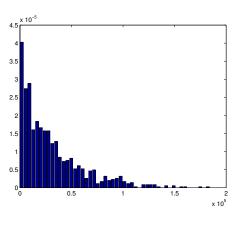
Polymer Chain Dynamics Simulation

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May 12, 2015

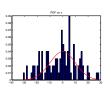
- 1 The mean enounter time simulation
- 2 End to End vector Simulation in the Rouse Model
- Random walk simulation
- Perspective

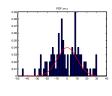


```
dimension = 3;
numParticles =
1000; dt = 0.01;
diffusionConst = 1;
numSteps = Inf;
numSimulations =
1000:
frictionCoefficient
= 1:
connectedBeads =
[]; fixedBeads = [];
metBeedNum = [1]
16 32]; lengthBead
= 1:
encounterDistance
= b./5;
```

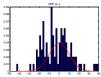
```
dimension = 3;
numParticles =
1000; dt = 0.01;
diffusionConst = 1:
numSteps = Inf;
numSimulations =
200:
frictionCoefficient
= 1:
connectedBeads =
[]; fixedBeads = [];
metBeedNum = [1]
16 32]; lengthBead
= 1:
encounterDistance
= b./4;
```

- 1 The mean enounter time simulation
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dimension=3
numParticles=100
dt=0.1
numSteps=100
diffusionConst=1
paths
endToEndDist
simulation=100



- Random walk simulation

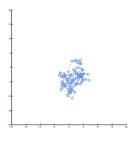


Figure: initial position

Figure : final position

parameters:dimension=3;numParticles=50;dt=0.1; numSteps=50;diffusionConst=1

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- Simulation on general domains
- Simulate telometre clustering(sphere)
- Build 'Results' module