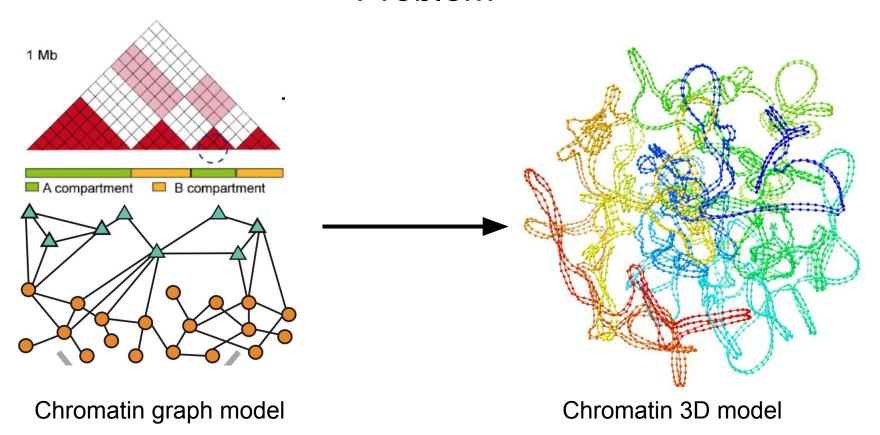
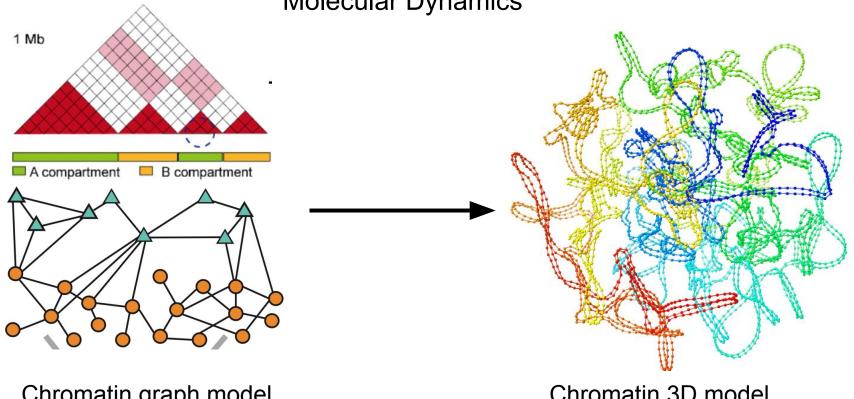
### **Problem**



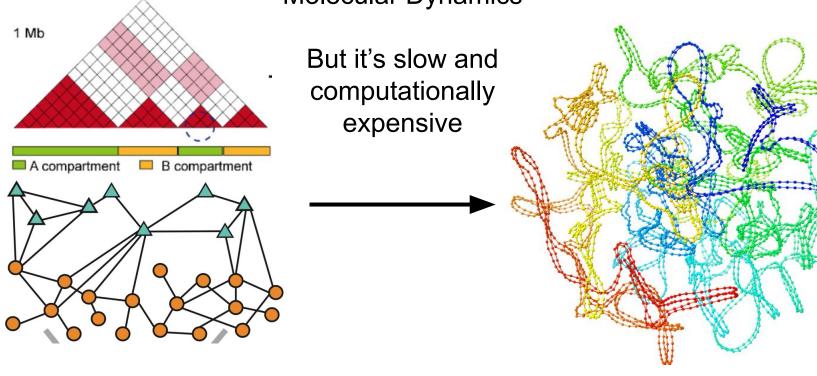
Currently using **Molecular Dynamics** 



Chromatin graph model

Chromatin 3D model

## Currently using Molecular Dynamics



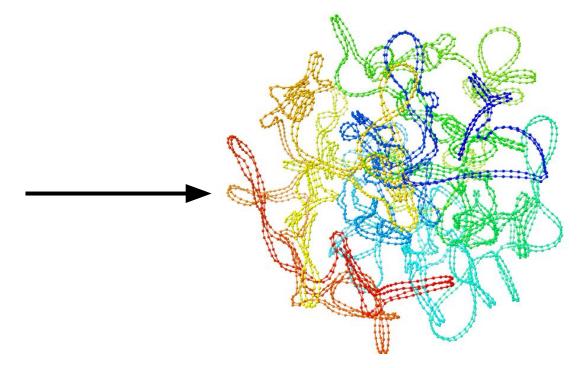
Chromatin graph model

Chromatin 3D model

# Can MultiDimensional Scaling (MDS) help?



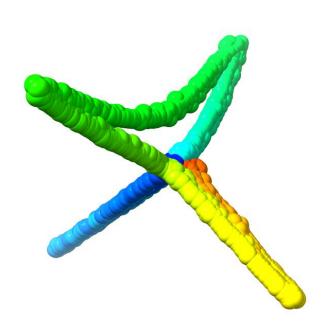
	A	В	C	D	E	F
Α	0	16	47	72	77	79
В	16	0	37	57	65	66
С	47	37	0	40	30	35
D	72	57	40	0	31	23
Е	77	65	30	31	0	10
F	79	66	35	23	10	0



Pairwise distances NxN

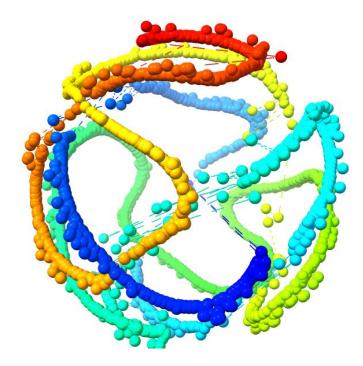
3D coordinates Nx3

#### Progress so far



Classical MDS (PCA-like)

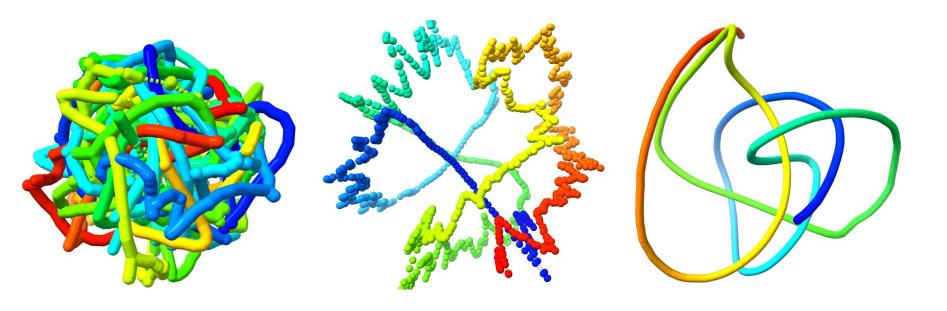
- too sensitive to noise



SMACOF version

- better, but still bad

### Progress so far



Weighted SMACOF - could work, trying to configure the parameters