



BIOMATH

Department of Biomathematics Seminar Series:
Frontiers in Systems and Integrative Biology

How to generalize the notion of distance to higher dimensional objects, and the implications for protein folding



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4:00 PM (refreshments)

43-105 Center for the Health Sciences

ABSTRACT:

After a brief biophysical introduction to motivate the problem, I will show how the measurement of distance between two objects can be generalized to the case where the objects are no longer points but are one-dimensional. Additional concepts such as nonextensibility, curvature constraints, and noncrossing become central to the notion of distance. I will give some analytical and numerical results for specific examples, and I will discuss applications to biopolymers and protein folding.

<http://www.physics.ubc.ca/~steve/>

Host: Dr. Tom Chou (tomchou@ucla.edu)

To receive e-mail seminar notices, contact David Tomita (dtomita@biomath.ucla.edu)