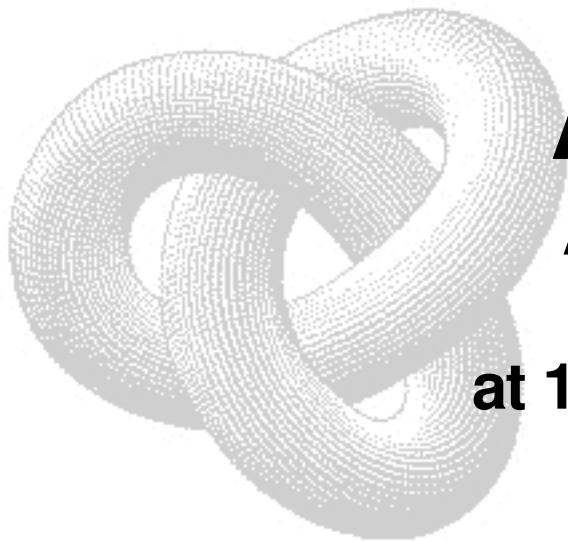


Lectures on Pure and Applied Math



Announcing

A Seminar Presentation
on September 22, 2014
at 1:45 pm in Buckman 130
at The University of New Haven

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University of New Haven

Average Geodesic Distance in Small World Network with 1, 2 (and maybe more) shortcuts

Abstract

Small-World Networks, a la Watts and Strogatz, combine the advantages of both high clustering (if person A is a friend of people B & C then B & C are likely friends of each other) and small characteristic path length (e.g. the so-called 7 degrees of separation idea).

The present talk addresses the non-trivial (in the author's opinion) problem of determining precisely the average shortest (geodesic) distance between points on a 1-D closed (i.e. circular) continuous (as opposed to discrete) array of points/nodes for the cases of 1 and 2 shortcuts.

Further Information

For further information, please contact Angie Domschine at the Department of Mathematics and Physics, Office: Maxcy 204, 203-932-7250, ADomschine@newhaven.edu.