Topology in Biology and Chemistry

Nov. 12 – 13, 2004
Reiss 103
Georgetown University

Abstract

An interdisciplinary conference partially sponsored by the Department of Mathematics of Georgetown University. Students and faculty of all interested departments are invited to attend the colloquia which will be held on Friday afternoon and also sessions on Saturday.

Friday Nov. 12

3:15 to 4:05 The Topology of Evolutionary Biology, Peter F. Stadler

4:30 to 5:20 Topological Approaches to the Analysis of Spatiotemporal Organization in Chemical and Biological Systems, Leon Glass

5:45 to 6:35 Topological questions related to DNA self-assembly of graph structures, Natasha Jonoska

Saturday Nov. 13

10:30 to 11:20 am Topological analysis of enzymatic actions: DNA link formation by Xer recombination and DNA unknotting by type II topoisomerase, Mariel Vazquez.

Additional talks in the later morning and afternoon. See
http://www.georgetown.edu/faculty/kainen/topinbiochem.html
for the full schedule (with updates) and pointers to the abstracts.

Organizers:
Jozef Przytycki, Dept. of Mathematics, George Washington University,
Yongwu Rong, Dept. of Mathematics, George Washington University,
Paul C. Kainen, Dept. of Mathematics, Georgetown University.

Additional talks on Sunday will be pure knot theory and held at the George Washington University as part of Knots in Washington XIX.