Joint Differential Geometry and Mathematics for Complex Biological Systems Seminar (Math 258 and Math 218)

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New Applications of Geometry in Biology

Abstract:
Almost everything we encounter in our 3-dimensional world is a surface - the outside of a solid object. Comparing the shapes of surfaces is, not surprisingly, a fundamental problem in both theoretical and applied mathematics. Deep mathematical results are now being used to study objects such as bones, brain cortices, proteins and biomolecules. This talk will discuss recent joint work with Patrice Koehl that introduces a new metric on the space of genus-zero surfaces and applies it in this context.

Hosts: Li-Tien Cheng, Bo Li, Lei Ni, and Ruth Williams

Thursday, May 23, 2019
2:00 PM
AP&M 5829