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C H A N N E L
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Undergraduate Math and Physics Seminar

Upscaling Discrete to Continuous Mathematical Models (And other Interesting things in Mathematical Biology)

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Department of Mathematics and Statistics*

Abstract: Discrete mathematical models, and in particular discrete individual based models, are becoming more and more popular among the applied sciences. These models are easy to construct and analyze as well as being accessible to undergraduate students. However these models are also limited by computational constraints. In this talk we will discuss ways to upscale discrete individual based models into continuous partial differential equation models inspired by a biomedical engineering example. Other interesting mathematical biology problems will be discussed.



When: Monday, March 7, 2016, 4:30-5:20 pm

Where: CSUCI, Del Norte 1530

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