



Special Colloquium

DR. OLGA TURANOVA
UCLA

"REACTION-DIFFUSION EQUATIONS IN BIOLOGY"

Reaction-diffusion equations describe a variety of physical and biological phenomena. In this talk, I begin by presenting the classical Fisher-KPP equation and its significance to ecology. I then describe recent results on other PDEs of reaction-diffusion type, including non-local equations arising in evolutionary ecology, as well as ones that model tumor growth (joint with Inwon Kim). I will highlight the mathematical challenges and techniques that arise in the analysis of these PDEs.

Tuesday, January 16th, 2018

Surge 284

Tea Time @ 4:00 p.m.

Talk Begins @ 4:10 p.m.

Ends @ 5:10 p.m.

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