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Veronica Quitalo, Purdue University

June 4, 10:30–10:55am

On a Long Range Segregation Model.

In this talk we will present the main results about a free boundary problem arising from a long range segregation process. In this model, the growth of a population u_i at x is inhibited by the populations u_j in a full area surrounding x . Heuristically, this will force the populations to stay at distance 1 from each other in the limit configuration. These models have some similarity with the Lasry-Lions model of price formation, where selling and buying prices are separated by a gap due to transaction cost.