Toward the physics of complex behaviors

In the past decade there has been considerable progress toward a “physics of behavior,” taming the complexity of animal movements in their natural contexts. Here we explore the next layers of complexity in songbirds, dolphins, and the general problem of animal navigation.

Lectures will be held in the Science Center (Rm. 4102) at The Graduate Center, 365 Fifth Ave, in Manhattan.

Friday 11 October 2019
9:30 AM Coffee and bagels

10:00 AM Animal navigation in uncertain environments
Agnese Seminara, Université Côte d’Azur

11:30 AM Coffee

12:00 PM Quantitative windows into the minds of dolphins
Marcelo Magnasco, Rockefeller University

1:30 PM Lunch

2:30 PM How birds sing: Taking precise data, making precise theories
Samuel Sober and Ilya Nemenman, Emory University

4:00 PM Coffee

4:30 PM How birds sing, Part II
Samuel Sober and Ilya Nemenman, Emory University

Sponsored by the Initiative for the Theoretical Sciences, and by the CUNY doctoral programs in Physics and Biology. Supported in part by the Center for the Physics of Biological Function, a joint effort of The Graduate Center and Princeton University.