PHYSICAL MATHEMATICS SEMINAR

LIFE IN FLATLAND: EMERGENT ORIGINS OF BEHAVIOR IN NON-NEURONAL SYSTEMS

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ABSTRACT:

Diverse multi-cellular animals encode a breathtaking diversity of natural behaviors. Non local interactions in traditional nervous systems make the study of underlying origins of behavior in animals difficult (and fascinating). It is a well-known fact that simple dynamical systems can also encode perplexing complexity with purely local update rules. In this talk, using a variety of toy models and systems, we will explore how complex behavior can arise in non-neuronal ensembles; or in short "how do animals with no brains (neurons), decide, compute or think?"

TUESDAY, DECEMBER 1, 2020
2:30 PM – 3:30 PM

http://math.mit.edu/seminars/pms/

https://mit.zoom.us/j/97273690529
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