

# 6<sup>TH</sup> PHYSICS OF LIFE: STUDENTS AND POSTDOCS EDITION



Molecular mechanisms of precise timing in cell lysis  
**ANUPAM MONDAL** Rice University

Cell-motility self-regulated by secreted footprints  
**EMILIANO PEREZ IPIÑA** Johns Hopkins University

Understanding CAR organization and immune pathway modulation  
**RHYTHM SHUKLA** AMOLF (Netherlands)

*E. coli* uses the growth arrest to reshape its proteome under starvation  
**THÉO GERVAIS** Basel University (Switzerland)

Quantifying information flow in single cells  
**MIRNA KRAMAR** Institut Curie (France)

Interplay between morphology and competition  
in two-dimensional colony expansion  
**DANIEL SWARTZ** MIT

The ground is good:  
A numerical approach to understanding acoustic tool use in crickets  
**ERIN BRANDT** University of Chicago

Olfactory search with finite-state controllers  
**KYRELL VANN VERANO**  
International Centre for Theoretical Physics (Italy)

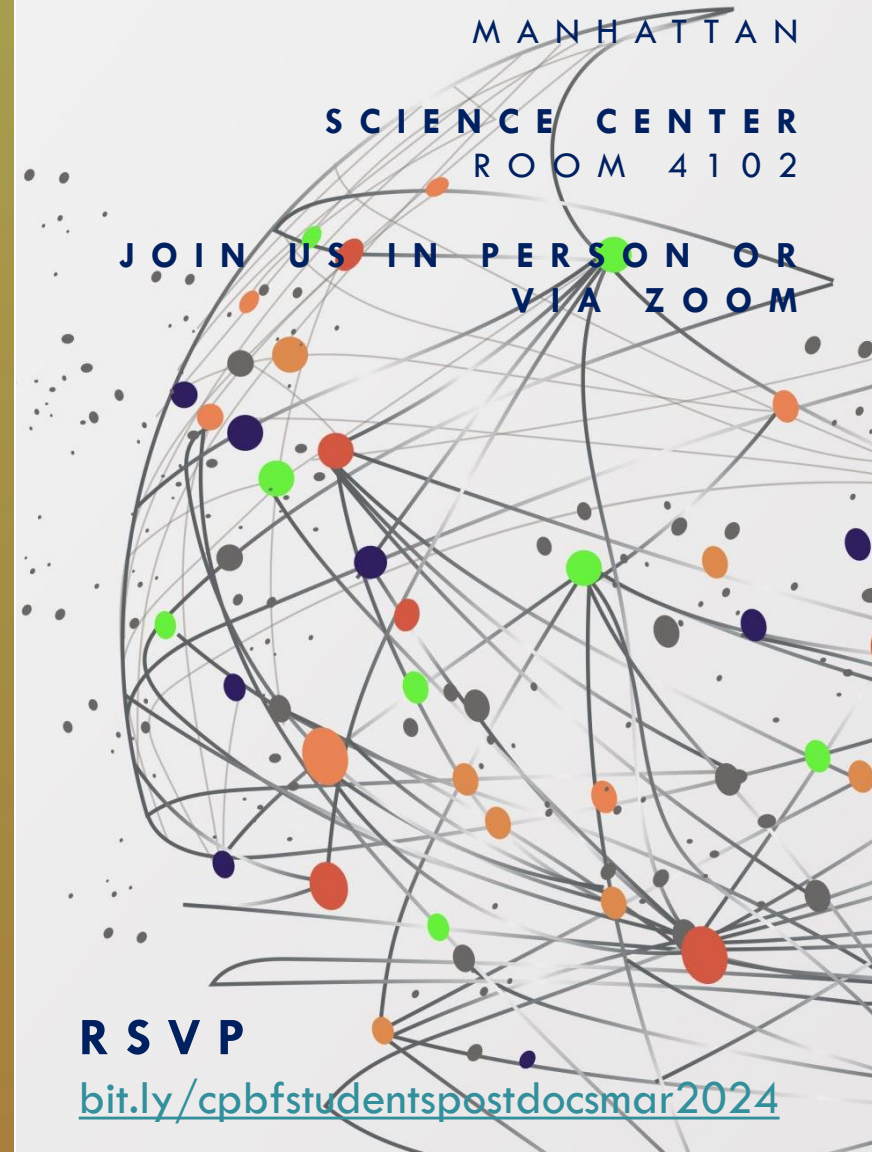
Simultaneous dimensionality reduction:  
A possible solution to neuroscience's data complexity  
**ESLAM ABDELALEM** Emory University

FRIDAY MAR 1, 2024  
9:30 AM – 4:00 PM EST

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