

POPULATION CODING OF PERCEPTUAL DECISIONS

A TALK BY **STEFANO PANZERI**

ISTITUTO ITALIANO DI TECNOLOGIA ROVERETO

18

GENNAIO

14:30

AULA SEMINARI VIMM
FONDAZIONE RICERCA
BIOMEDICA AVANZATA
VIA ORUS, 2
PADOVA

In this talk we will present our work on identifying the neural population coding mechanisms underlying perceptual decision making. We will present a mathematical formalism to study the contribution of various cortical population coding mechanisms to transforming sensory information into action. We will present our results on how somatosensory or auditory information in neural population codes is used for perceptual decisions.



Stefano Panzeri is a Tenured Senior Scientist (Full Professor) at the Italian Institute of Technology (IIT). He directs the Center for Neuroscience and Cognitive Systems and the Laboratory of Neural Computation at the IIT in Rovereto. He studied Physics at the University of Turin and Computational Neuroscience at SISSA. In the past he held full-time appointments at Universities of Oxford, Newcastle, Manchester and Glasgow, as well as visiting positions at the Max Planck Institute for Biological Cybernetics and at Harvard Medical School. His research in computational neuroscience focuses in understanding circuits of neurons encode and transmit information to produce appropriate behavior.



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