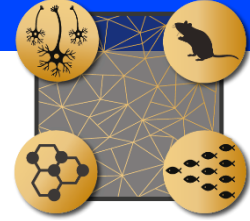




Zenith

INTERNATIONAL PHD PROGRAM IN NEUROSCIENCE

In collaboration with SmartNets



WEDNESDAY, 27 OCTOBER 2021
AT 5:00 PM (CEST)

ZENITH SEMINARS

FLEUR ZELDENRUST

DEPARTMENT OF NEUROPHYSIOLOGY
Radboud University, The Netherlands



MEASURING INFORMATION TRANSFER: HOW DO SINGLE NEURONS INFLUENCE NETWORK BEHAVIOUR?

To understand how the brain can perform complex tasks such as perception, we have to understand how information enters the brain, how it is transformed and how it is transferred. But, how do we measure information transfer in the brain? I will explain how we can measure this and how it can be used to develop brain models at different (spatial) levels, from the microscopic single neuron level to the macroscopic network and behavioural level. How can we incorporate the knowledge about single neurons, that already show complex dynamics, into network activity and link this to behaviour?

Fleur Zeldenrust got her PhD from the University of Amsterdam in computational neuroscience. After a postdoc at the group for Neural Theory at École Normale Supérieure in Paris, she returned to Amsterdam to set up a track in computational neuroscience. In 2016 she started her own group at the Donders Institute, Radboud University Nijmegen.

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