

PARIS - April 24 & 25



Brain Rhythms

and Cortical Computations

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INSTITUT
PASTEUR

Monday April 24

08:30	Breakfast	
09:15	Welcome & Introduction	<i>Anne-Lise Giraud</i>

Phase representations in time

09:30	Slow oscillatory phase codes for implicit timing	<i>Sophie Herbst</i>
10:00	Phase precession in listening to speech, music and noise	<i>Xiangbin Teng</i>

10:30 - 30-minute Break

Neural oscillations and Bayes

11:00	Oscillations as hard-coded rhythmic priors	<i>Keith Doelling</i>
11:30	"Bayesian neurocomputational models" of speech syllabic segmentation for speech processing	<i>Mamady Nabe</i>

Words on Peter Lakatos

12:00	A few words on Peter's contribution and the questions he has left to us to figure out	<i>Oded Ghitza</i>
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12:30 - Lunch & Posters

Debate

1:30	How can oscillations code for information in both frequency and phase?	<i>Anne Kosem & Sanne ten Oever</i>
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2:30 - 15-minute break

Endogenous oscillations in Attention

2:45	Frequency-dependence of feedforward inter-areal communication and its implications for predictive processing and attention	<i>Martin Vinck</i>
3 :15	Role of alpha and gamma activities in auditory attention	<i>Aur�lie Bidet-Caulet</i>

3:45 - 15-minute break

Keynote Speaker

4:00	Bats got rhythm: oscillations for vocal communication	<i>Julio Hechevarria</i>
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5:00 - Beers



Tuesday April 25

08:30 Breakfast

Developmental and disordered oscillations

09:00 The role of auditory neural oscillations in reading development *Marie Lallier*
09:30 Speech reception in young children with autism is selectively indexed by a neural oscillation coupling anomaly *Xiaoyue Wang*

10:00 Neural correlates of auditory rhythm perception in premature neonates *Sahar Moghimi*

10:30 The role of neural oscillations in early speech perception and language acquisition *Judit Gervain & Maria Ortiz Baraja*

11:00 - 30-minute break

Causal force of oscillations (forward entrainment)

11:30 Inferring causality of brain rhythms from acoustic and electric entrainment *Benedikt Zoefel*

12:00 The impact of phase entrainment on auditory detection is highly variable: a detailed investigation of the "M-shaped" pattern from Hickok et al., (2015) *Yue Sun*

12:30 - Lunch & Posters

La Foire d'Empoigne (moderator : B. Morillon)

1 :30 with the participation of *Ed Large, Johanna Rimmele, Oded Ghitza and Virginie van Wassenhove*

2:30 - 15-minute break

Oscillations+

2:45 Bridging Levels of Detail in Computational Neurolinguistics *Ben Pittman Polletta*

3:15 Rhythmic alternation of bottom-up and top-down processing improves online speech processing: insights from a computational modelling *Sevada Hovsepyan*

3:45 Neural manifolds for phonetic processing in the human superior temporal gyrus *Timothée Proix*

4:30 - Beers

