

II CINET
INTERNATIONAL
WORKSHOP

SYNCHRONY IN THE BRAIN: TIME, CONSCIOUSNESS AND LIFE

26/05 > 28/05

2023

Ávila (Spain)

CINET
Centro
Internacional
de Neurociencia
y Ética

The aim of the second CINET international workshop is to promote interdisciplinary dialogue about synchrony and its importance to understanding the brain, consciousness, and development. Like many topics with rich interdisciplinary connections, synchrony does not have a single, unequivocal definition. Although in some contexts it can be defined unproblematically as simultaneity or temporal correlation, on deeper levels the concept of simultaneity is questioned by physics and philosophy. Definitional problems notwithstanding, synchrony has attracted increasing interest through its numerous applications in neuroscience and related fields. Synchrony is used by several neurobiological and philosophical theories of consciousness to explain the possibility of brain-world interaction and the continuity of mental life. Studies of the disruption of brain synchrony at various scales offer a new way to understand certain mental and brain disorders from a holistic perspective. Synchrony also provides a promising approach to investigations of the causal basis of mental activity, as it offers the opportunity to move beyond efficient causation to include new interpretations of material, formal and final causes. In addition, synchrony can be applied to studies of human development, from its earliest stages to the consolidation of personal identity, insofar as development can be understood as a diachronic process in which myriad processes are synchronically organized to act as a whole. Also, in this framework, different levels of memory may be reinterpreted under the rubric of synchrony. As promising as these applications may be, however, it is not clear whether and how they add up to a common theoretical framework that offers new explanatory insight into the nature of mind and life.

CINET

From May 26 to 28, 2023, in Ávila (Spain), CINET will gather world-leading researchers from multiple disciplines to discuss these topics and explore future lines of collaboration. From 2023 to 2025, the CINET network of researchers will carry out the project "SYNCHRONY," whose main objective is to explore the potential of synchrony, as investigated from multiple perspectives, to shed new light on brain and mental function and the process of life itself.

26/05

FRIDAY

9:00 > 9:30

Presentation of the workshop

D. Teodoro SÁNCHEZ-ÁVILA

Álvaro MATUD

Javier BERNÁCER

9:30 > 10:30

SYNCHRONY Project: Conceptual background, goals and structure of the workshop

José Ignacio MURILLO

Javier BERNÁCER

10:30 > 11:00

Coffee break

11:00 > 12:00

Round table #1:

SYNCHRONY in neuroscience

Lorena CHANES

Ignacio SÁEZ

José Manuel MUÑOZ [Discussant]

12:15 > 13:45

SYNCHRONY and non-linear dynamics in the brain

Scott KELSO

Discussion introduced by Nathaniel F. BARRETT

13:45 > 15:00

Lunch break

15:00 > 16:30

Round table #2: SYNCHRONY and causality in philosophy and neuroscience

Carmen CAVADA

Alva NOË

José Ignacio MURILLO [Discussant]

16:45 > 18:00

Criterial causation

Peter TSE

18:15 > 18:30

Wrap-up session

Nathaniel F. BARRETT



27/05

SATURDAY

9:00 > 10:30

Round table #3: SYNCHRONY and consciousness

Georg NORTHOFF

Javier SÁNCHEZ-CAÑIZARES

Robert CHIS-CIURE [Discussant]

10:40 > 11:30

Irruption Theory of Consciousness

Tom FROESE

11:30 > 12:00

Coffee break

12:00 > 13:30

Round table #4: SYNCHRONY in life and the role of memory

Marya SCHECHTMAN

Francisco GÜELL

13:30 > 15:00

Lunch break

15:00 > 16:30

SYNCHRONY and intersubjectivity

Joanna RAĆZASZEK-LEONARDI

16:45 > 18:15

Empirical approaches on SYNCHRONY and intersubjectivity

Jorge SEPULCRE

José MANUEL MUÑOZ

Tom FROESE

18:15 > 18:30

Wrap-up session

Nathaniel F. BARRETT

28/05

SUNDAY

10:30 > 11:30

Neural Synchrony in Schizophrenia and Emerging Psychosis

Peter UHLHAAS

11:30 > 13:30

Coffee, subprojects discussions, and conclusions



PROGRAMA / CULTURAL Y OCIO

25/05
THURSDAY

GUIDED TOUR in the city
with an official guide
Blanca SOPELANA
of tourism of Castilla y León.

DINNER/COCKTAIL
Garden of the Cedar
Sofraga Palace
<https://www.sofragapalacio.com/>



26/05
FRIDAY

WINE TASTING/PAIRING with the
winery "Huellas del Tiétar"
(Lanzahíta, Ávila) of the Cebreros Deno-
mination of Origin.
Venue: El Almacén Restaurant

DINNER
El Almacén Restaurant.
<https://restauranteelalmacen.com/>



27/05 SATURDAY

19: 30. RENAISSANCE MUSIC
CONCERT in the Cloister of the
Kings in the Royal Monastery of
Santo Tomás.

Musical group: VICTORIA CANTUS
<https://monasteriosantotomas.com>

DINNER in the garden of the
Parador Nacional Raimundo de
Borgoña.



28/05 SUNDAY

09:00 GREGORIAN MASS by the
"Gregorian Choir of La Santa" in
the Convent of La Santa, birthplace
of Saint Teresa of Jesus, ruled by the
Carmelite Fathers.

Some concerts of this choir:
<https://www.youtube.com/watch?v=XMmBkoA820E>
<https://www.youtube.com/watch?v=fQHhWbNnma0>

14:30 LUNCH

Restaurant La Repera.

It is pending the lection of the menu
<http://www.lareperaavila.es/>



T / Ávila
Madrid
Cáceres
Córdoba