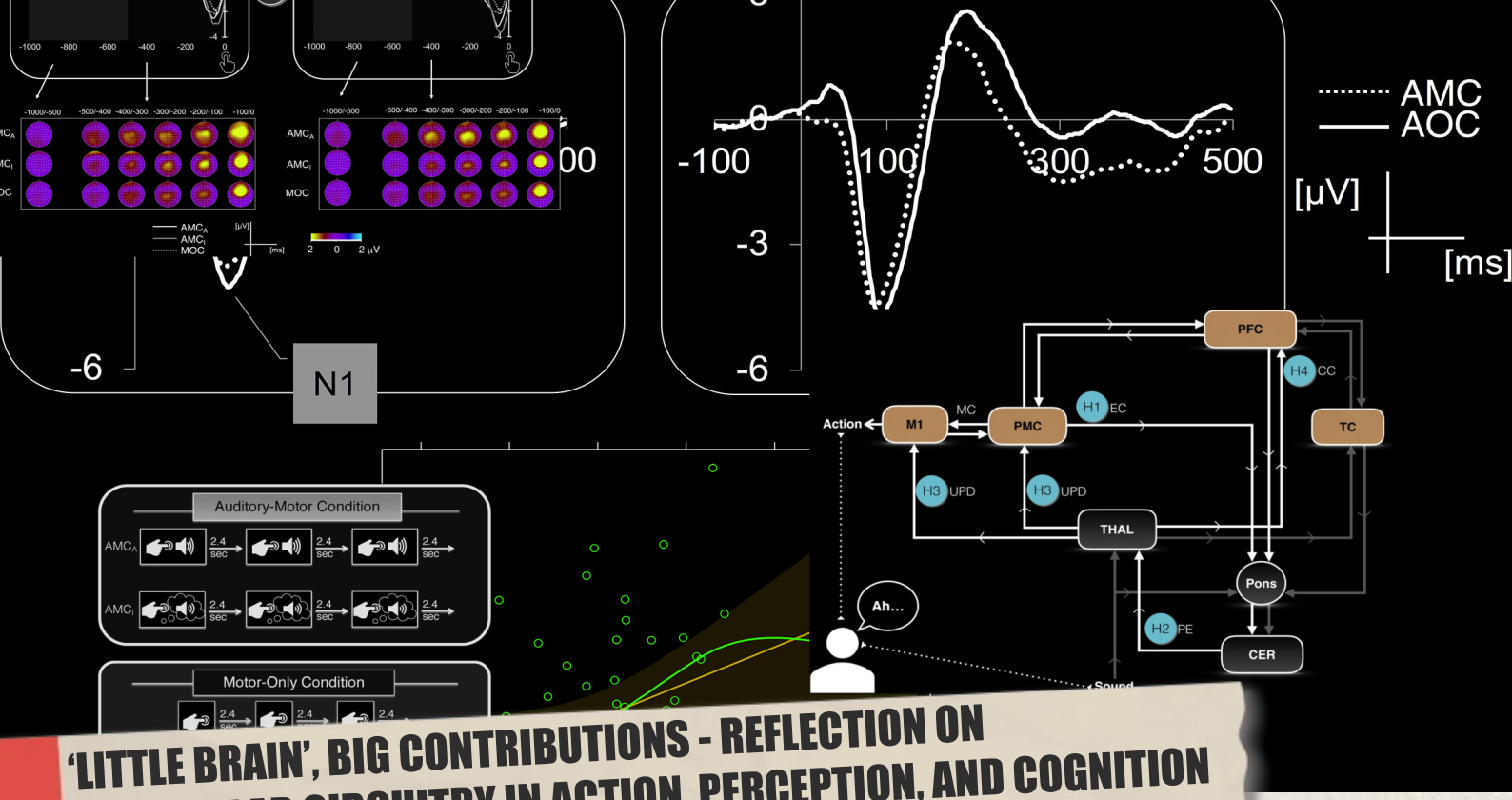

'LITTLE BRAIN', BIG CONTRIBUTIONS - REFLECTION ON CEREBELLAR CIRCUITRY IN ACTION, PERCEPTION, AND COGNITION

A TALK BY SONJA A. KOTZ

DEPT. OF NEUROPSYCHLOGY AND PSYCHOPHARMACOLOGY
UNIVERSITY OF MAASTRICHT

07 LUGLIO

15:00

SALA SEMINARI VIMM

It is well established that cortico-cerebellar-cortical circuitry monitors motor behavior, but recent evidence established that this circuitry similarly engages in the temporal encoding of basic and more complex (multi)sensory information. Consequently, cerebellar computations may generally apply to the temporal encoding of motor and basic and complex (multi)sensory information as (i) such information stimulates and monitors cortical information processing, and (ii) cerebellar-thalamic output might be a possible source of endogenous activity, predicting the outcome of cortical information processing and (iii) possibly providing a temporal frame for the binding of information. I will discuss our current conceptual thinking as well as empirical evidence in support of these considerations.

Sonja Kotz holds a Chair in Neuropsychology and Translational Cognitive Neuroscience at the Department of Neuropsychology and Psychopharmacology at Maastricht University, the Netherlands. She serves as a board member and senior editor of major journals (Neuroimage, Cortex, PLoS ONE, Time & Time Perception). Since starting her current post in the Netherlands in 2015, she has served on the panels of the NWO and is the Chair of the Faculty Research Council at Maastricht University. She was the President of the European Society for Cognitive and Affective Neuroscience (ESCAN) from 2016-2018 and is the current President of the Society for the Neurobiology of Language. She is an elected advisory board member of several European research institutes involved in cognitive and translational neuroscience. She collaborates with leading experts in speech, music, and attention neuroscience.

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