

On the operation of visual cortical gamma in the light of frequency variation

Citation for published version (APA):

Lowet, E. P. (2016). *On the operation of visual cortical gamma in the light of frequency variation*. [Doctoral Thesis, Maastricht University]. Maastricht University. <https://doi.org/10.26481/dis.20160323el>

Document status and date:

Published: 01/01/2016

DOI:

[10.26481/dis.20160323el](https://doi.org/10.26481/dis.20160323el)

Document Version:

Publisher's PDF, also known as Version of record

Document license:

Unspecified

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Propositions:

1.

Investigating microsaccade-triggered neural dynamics will be key for understanding how the brain processes visual information.

2.

Since Huygen's first description of synchronization between pendulum clocks 350 years ago, the force of synchronization has been demystified and replaced by physics. A complete demystification of synchronization needs to still take place in neuroscience.

3.

The highly polarized thinking about the usefulness of gamma oscillations for the brain reflects the fighting among researchers for access to high-impact journals.

4.

Many researchers have difficulty to see brain activity, including gamma oscillations, in the framework of dynamical systems. More emphasis on this framework and related mathematical tools are needed in general neuroscience education.

5.

Understanding how neural synchronization is contributing to brain function will provide important inspiration for the use of synchronization in artificial networks and robotics.

6.

Experimentalists often have the illusion that they can collect, analyse and describe data in a theory-free manner and hence do not need theoreticians, but in any paper theory starts already in the results section and doesn't wait until the discussion.

7.

The lack of detailed knowledge about biology makes theoreticians sensitive to dogma and incorrect assumptions. Theorizing and modelling benefits from detailed knowledge of the empirical data.

8.

Refugees should be welcomed, because we would expect their help if the tables were turned.

9.

The first time humanity will be truly united will be when aliens attack earth.