

Oral presentation

## **Towards the mathematics of consciousness**

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Consciousness goes beyond the conventional syntactic Language of mathematics, as it refers to and is based on Semantic processing.

The emergence of Meaning based on the realization of novelties is possible only in open systems far from equilibrium admitting a so-called Internal Time operator.

Typical examples of such systems are those with highly interdependent components manifesting chaos and complexity

The Internal Time operator selects the innovations produced by the system during the 'flow' of clock time. These points may be seen as requirements of the 'Consciousness software' although the very concept may be debatable.