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Sub-Specie Aeternitatis 2012 Chirpan




Information, hyperstructure

System of information



Agenda

- Information
- Functional System Approach
- HyperStructure
- Quasiparticles
- Systems of Information
- Discussion Related to Mind Uploading



Approaches to The Concept of Information

- Quantitative
- Semantic
- Qualitative
- Ontological

Philosophy of the Concept of Information (dialectic materialistic)

- Attributive

Information is a separate manifestation of the mater

- Functional

Information is a phenomena emerging in *complex systems with management*

The two approaches are not opposed !

The Concept of System

P. K. Anokhin's theory of functional systems

System,

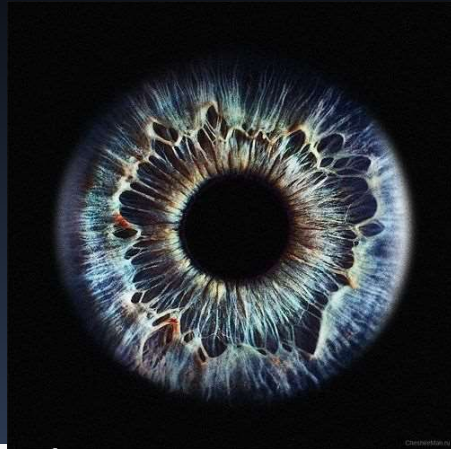
*is a complex of selected components
that*

work in mutual co-operation

to produce

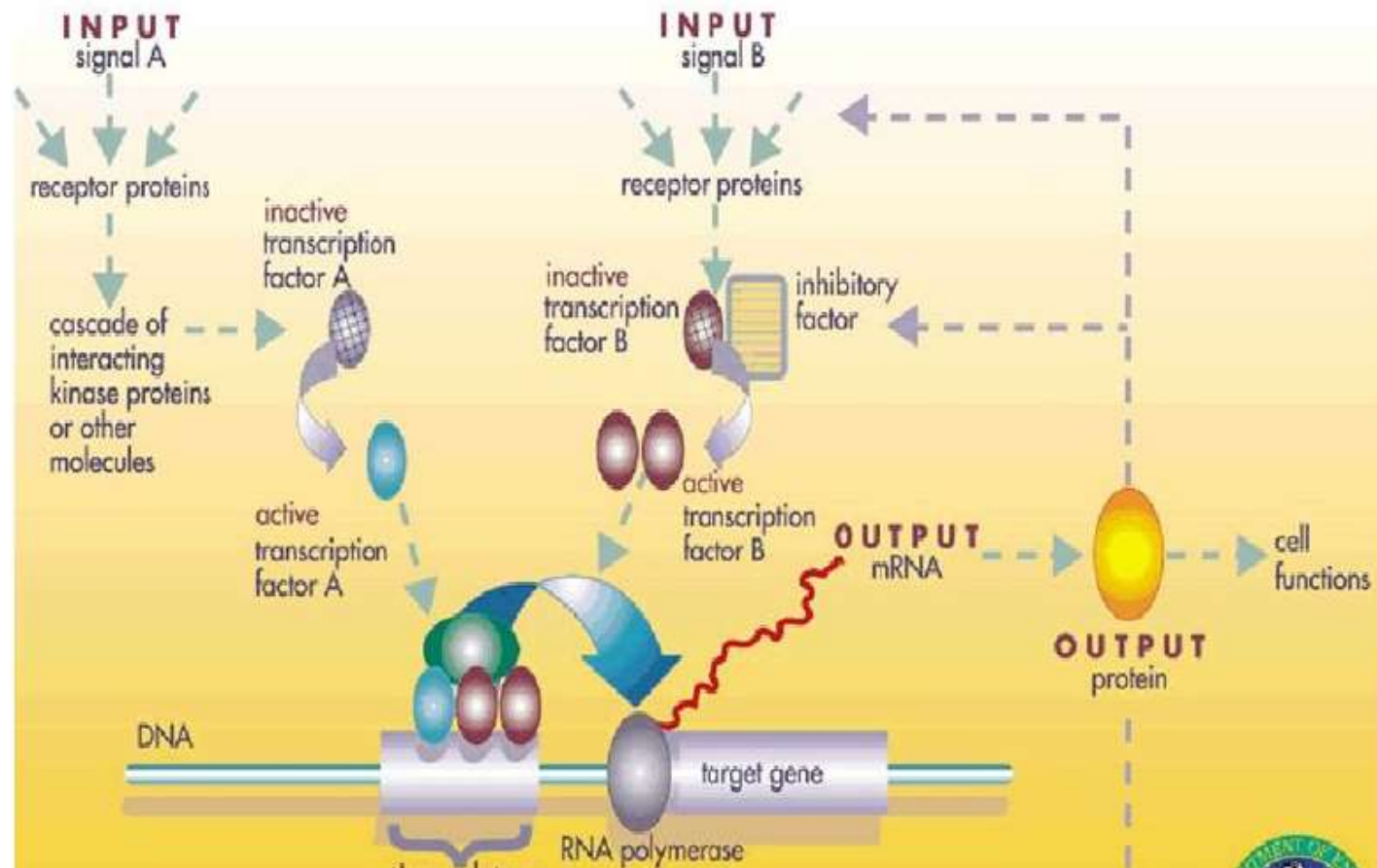
a focused beneficial result

Complex Systems with Management

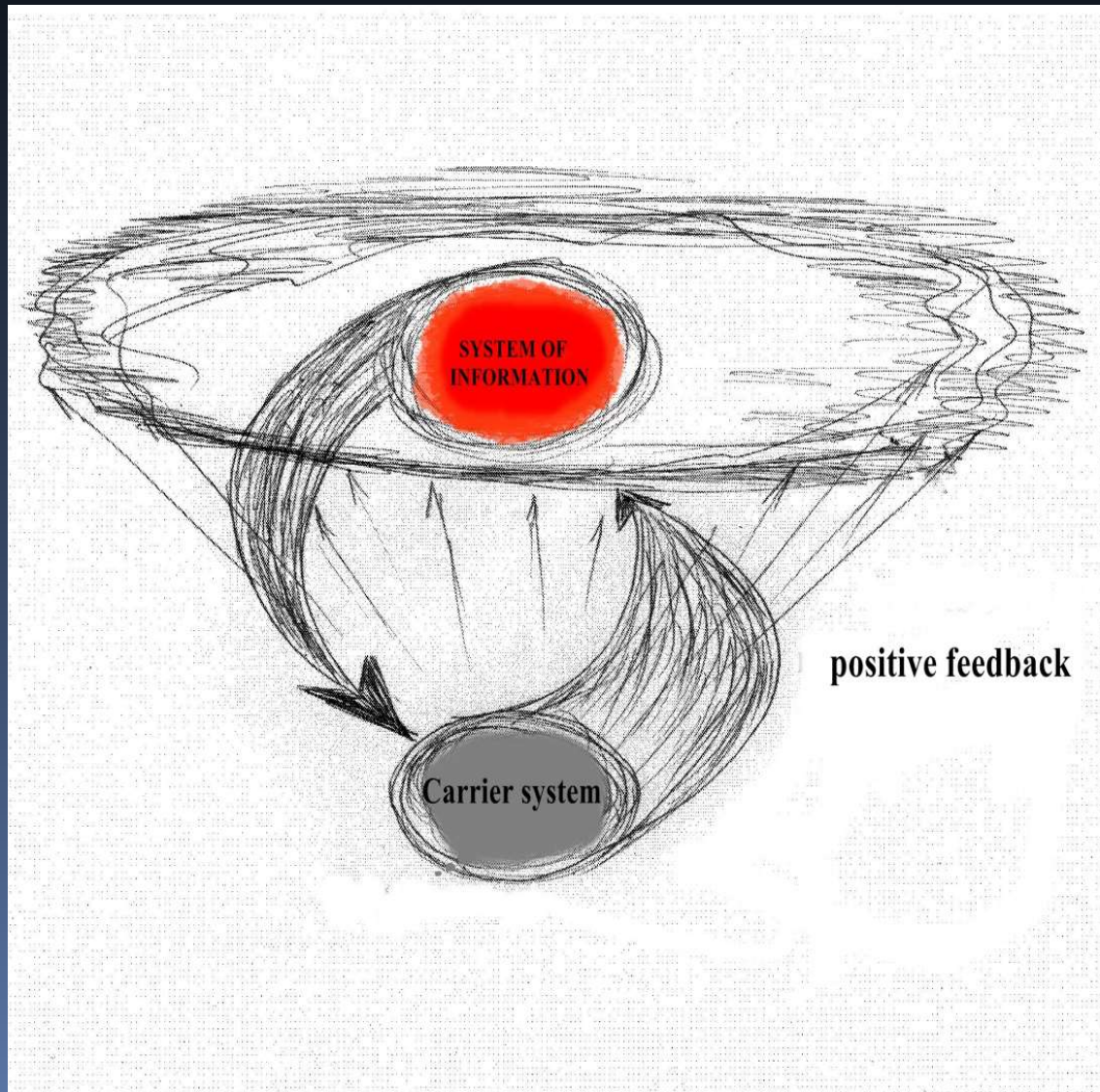


Complex Systems Cont'd

Genetic Regulation & Cellular Signaling



Complex Systems Cont'd

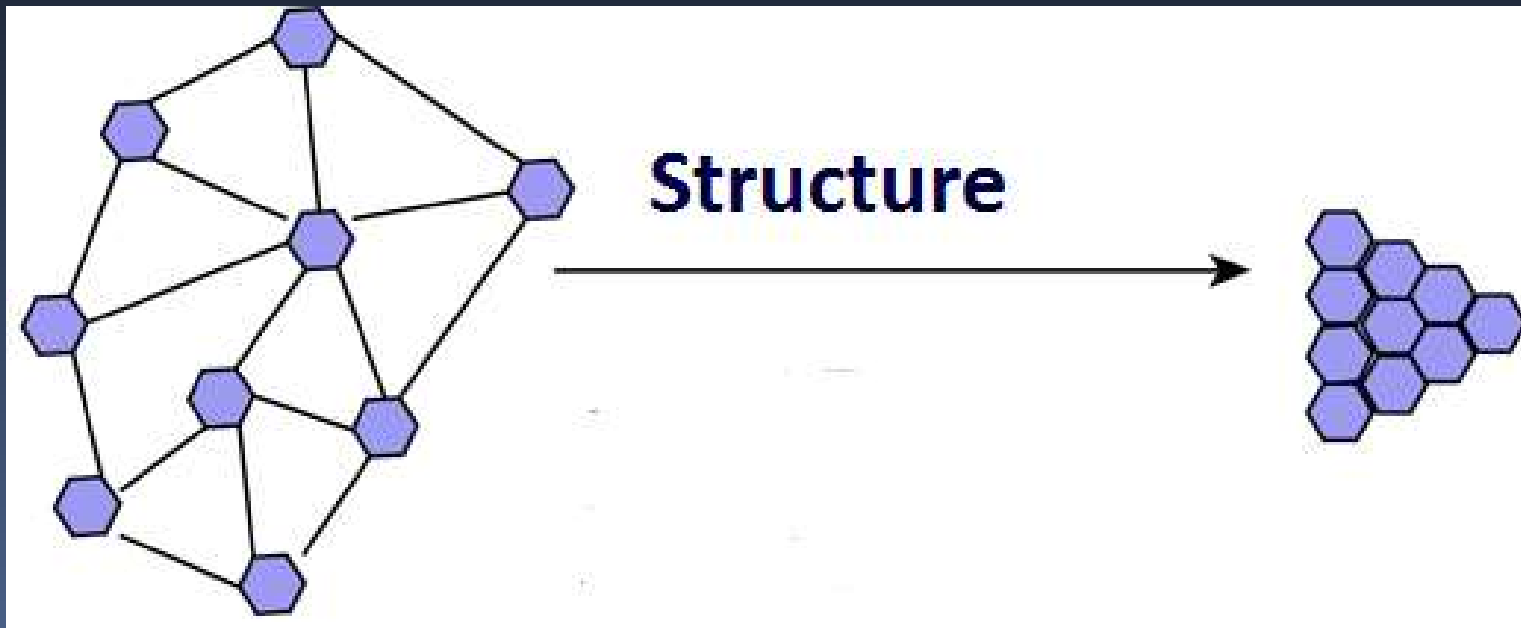




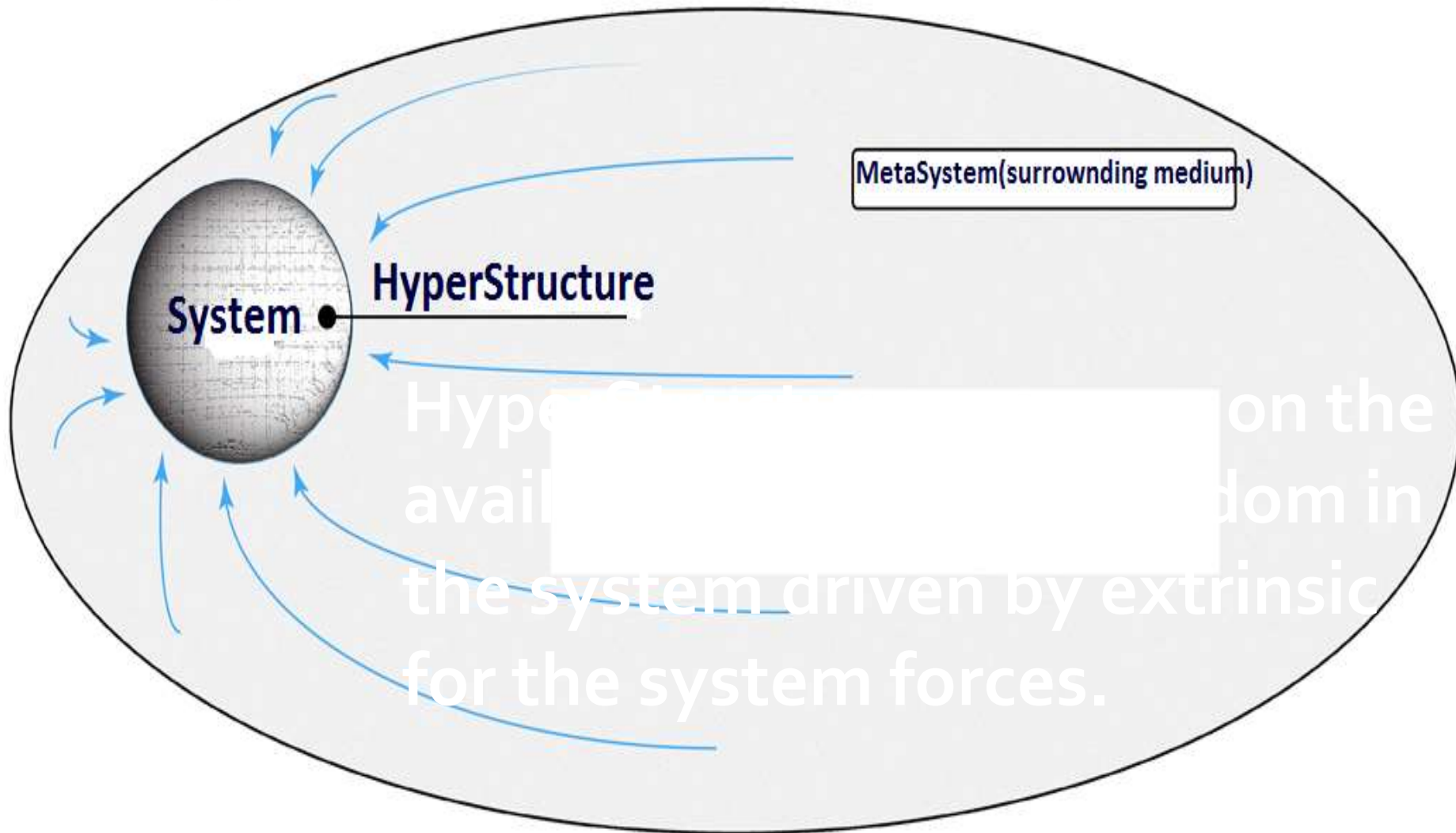
Concept of HyperStructure

by W. I. Kremyanskiy

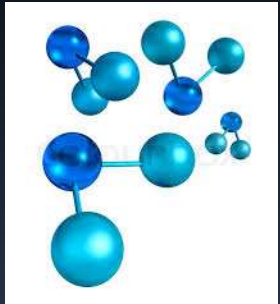
Physical Approach



HyperStructure



HyperStructure Examples



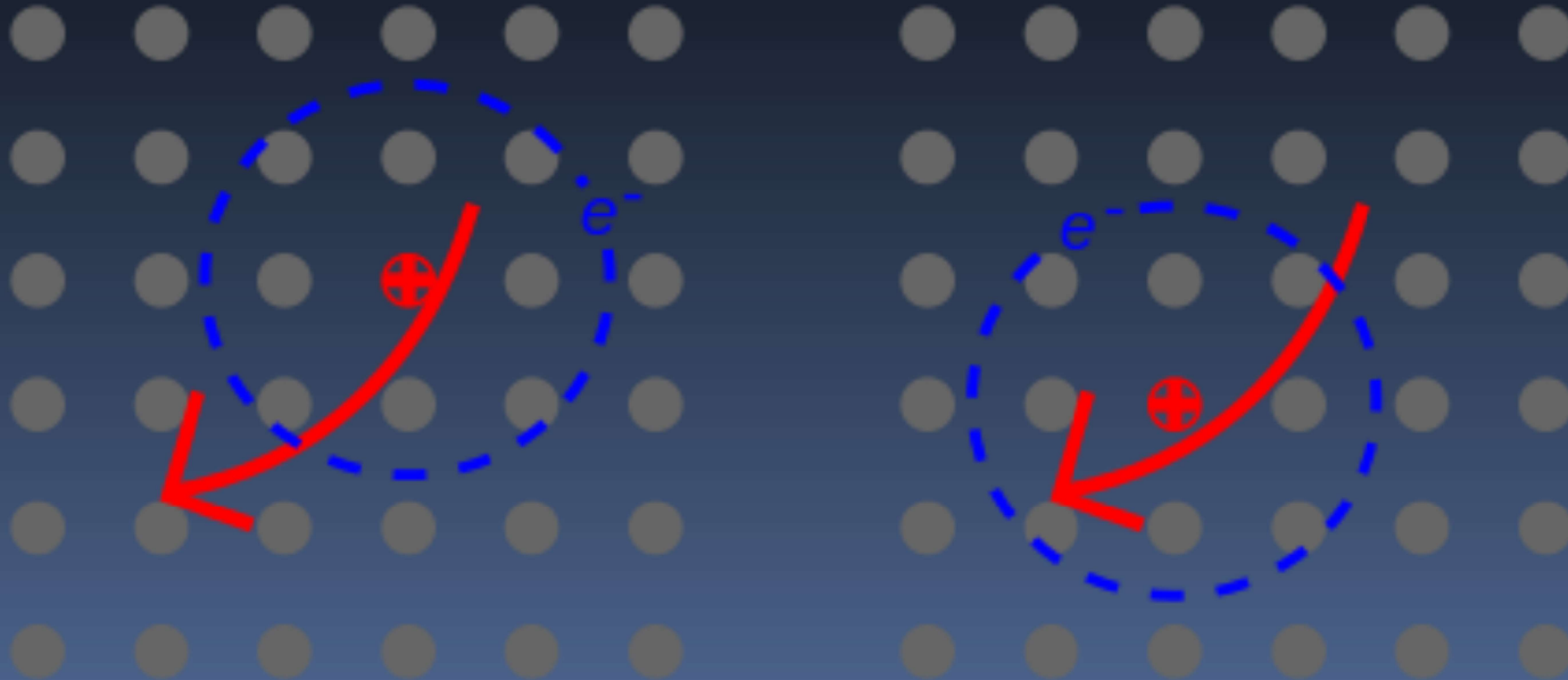
Quasiparticles

Emergent phenomena

Occur when

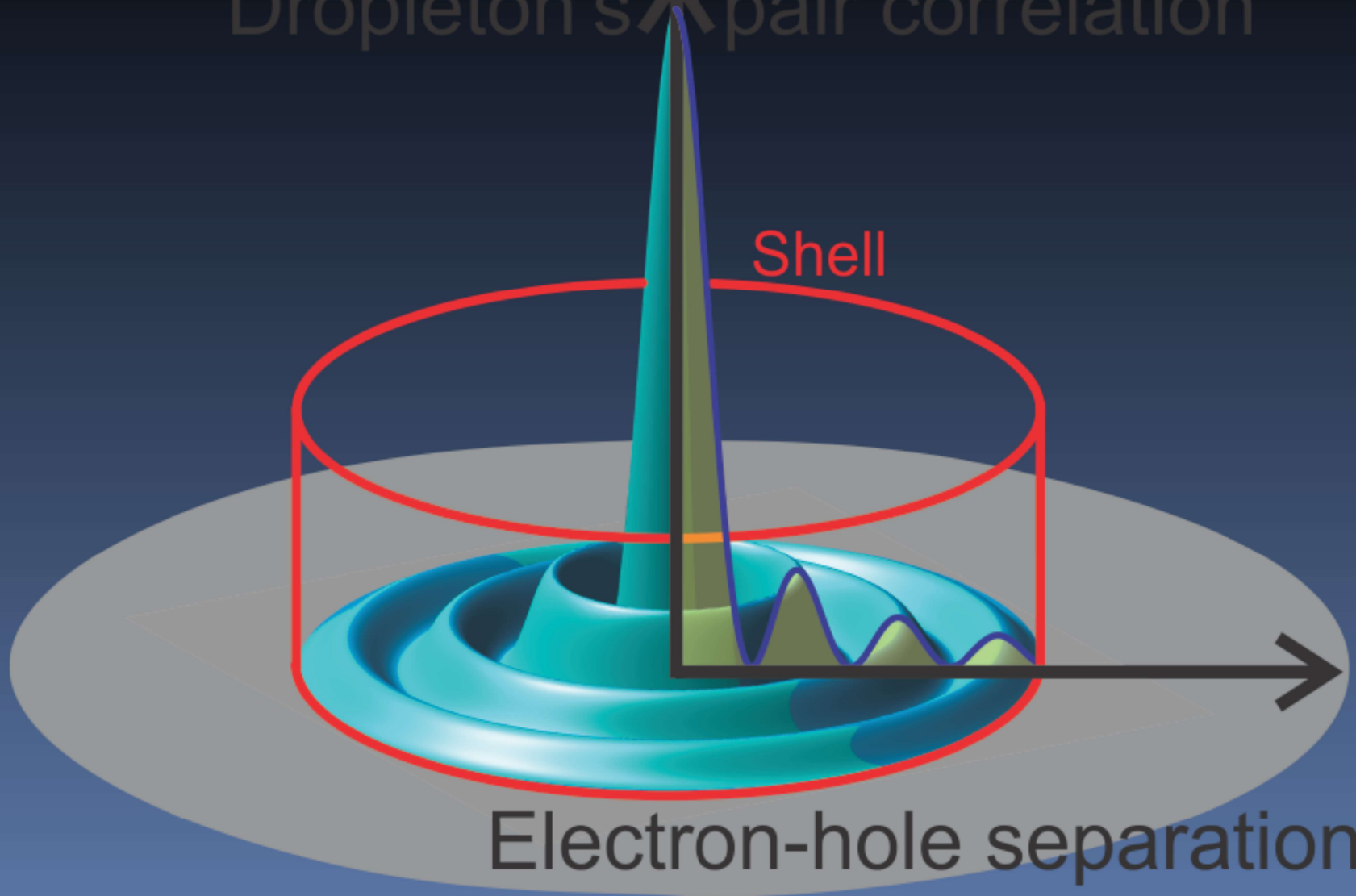
A microscopically complicated system (solid)
behaves *as if* it contained different
weakly interacting particles in free space

Quasiparticles - A Hole



Quasiparticles Droplet/Exciton


Droplet's pair correlation



HyperStructure

Physical Approach Wrap Up

- Hyperstructure uses the degrees of freedom in the system, reflection of the system's interaction with the surrounding world
-
- Quasiparticles exist in the space/time, derivative from a system
- Quasiparticles - hyperstructures with a dualistic nature of particles & waves, and




HyperStructure Functional Approach

W. I. Kremyanskiy

HS are the closest material carrier of a given units of primitive information or we can call these information germ.





Information vs.
HyperStructure
Cybernetic variant of GST

*Hyperstructure becomes Information
when it has an importance to the survival
of the carrier system.*

*Information exists only in the form of
systems of information*

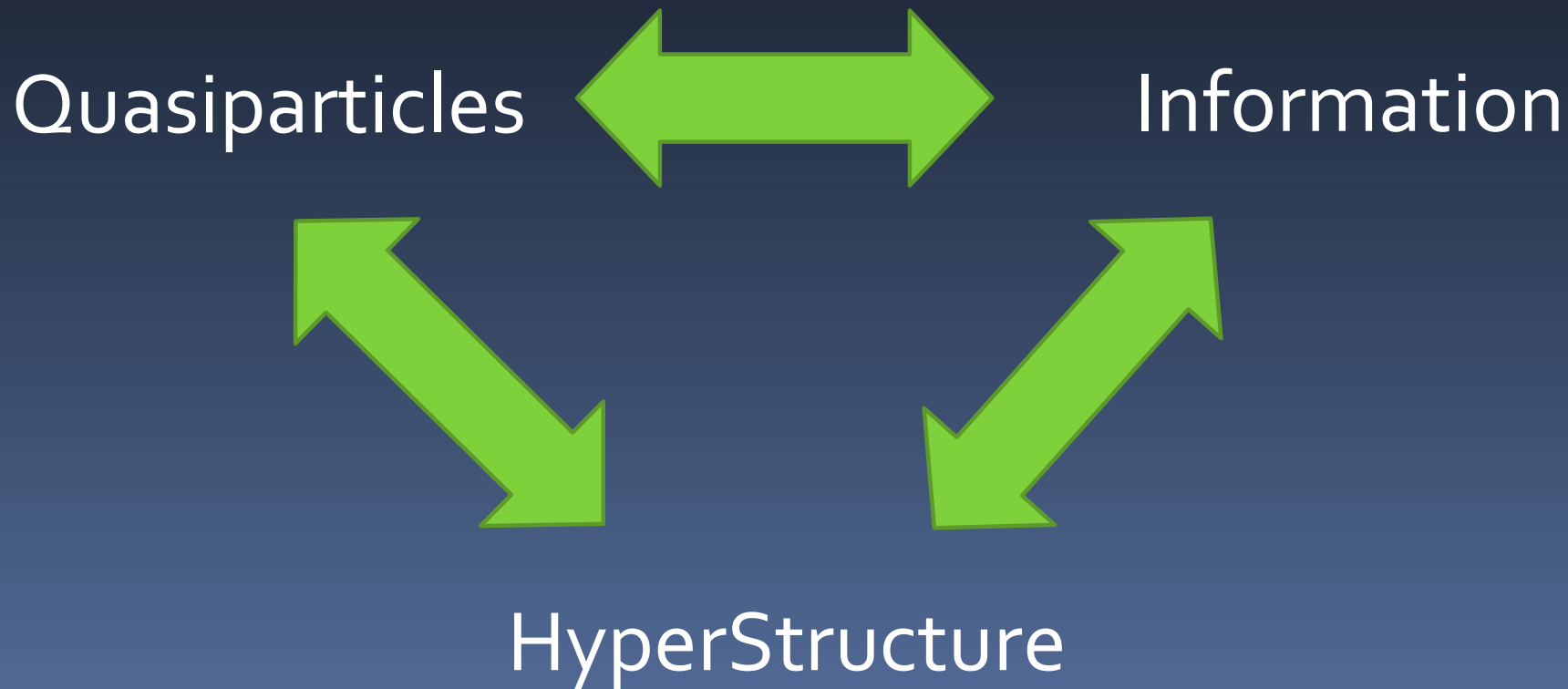
Systems of Information

Distinguishing between
functional systems of information vs.
Semantic systems of information

Two known systems of information:

- The genetic system of information
- The Psyche

General System Theory Cybernetic Variant



System of Information

Drawing a distinctive line between the concepts

- *A Human Being - a complex system*
- *A Human Body (including brain and nervous system) - a biological system carrier*
- *A Human Mind (Psyche) - a system of information*

Questions & Discussion

