

THE PRIMARY PHENOMENOLOGICAL SYMBOLIC PROCESS OF LIVING MATTER: ON “MOLECULAR DISIDENTITY”

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ABSTRACT

In this brief paper, some further global phenomenological consequences of the results obtained in previous studies by the author, are presented. Rather than going into molecular details, we are content with conditioned probability theory here. The term “primary process” is introduced, pointing to the molecular realm, in contrast to the “secondary realm”, the nervous-system dependent processes. These concepts of the “secondary” processes are detailed in a forthcoming paper, focusing on the “Mind/Matter” problem (Balázs, 2015a). Here we would like to concentrate on the “primary”, molecular realm, if only in an admittedly phenomenological way, with the focal point of a so-called “molecular (dis)identity”. The consequences of state space extension is discussed, the state space containing besides *finite*, atomic bound quantum mechanical Hilbert state spaces, also symbolic (automata-“*metaphorical*”), virtual, *classical states*. The “extension” of the state space thus refers to *additional classical* states, obtained by direct sum procedures, leading to a non-invariant subspace. The notion of “symbols” in the molecular realm corresponds to generalized “coordinates” of molecular shapes and refer here to mathematical “transition functions”, *connecting dynamically* wavefunctions of *sterical complementing* molecular shapes in the underlying quantum dynamics. We extend our analysis of the “primary biological symbolic processes” to our central proposed quantum physical “molecular disidentity” which arises because of the emergence of these two, joint (quantum mechanical/classical) representations in molecular state spaces, having come about in an original primeval “Heisenberg–event”. It may have been a global, *endophysical* “self–transition” (“excitation”) being *relaxed* by an internal “reverse” time process. Molecular “disidentity”, explained in the text as pointing beyond its pure physical self-identity, in other words, the “primary” *symbolic* process, thus is indirectly relaxed by self–replication (daughter cells as individual entities), leading to the identity of the parent living organism with the surrounding Universe in this special, biological, indirect route. This mechanism is particularly clear at multicellular organisms.

Keywords: Conditioned information processing, “molecular disidentity”, routes of return, quasiclassical dynamics.