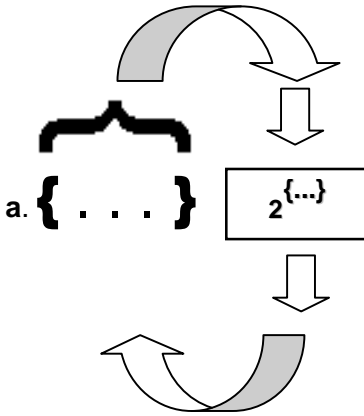


Glossary of Pictogramic Devices



≡ Pictogram for *The Set Of All Sets*, denoted $\underline{S}_0^{2^\tau}$, an intrinsically 'auto-kinetic', trans-oscillatory mental 'process-object' or 'conceptual eventivity' ['noun-verb' entity], and a 'syntactical model' of 'a self-forming

content', a 'meta-fractal', 'multi-meta-ontic', 'multi-meta-monadic' 'metafinite *ideo-cumula*', i.e., of that which we term herein '*The Gödelian Dialectic*'. This set is a self-driven process by which the whole continually reincarnates inside itself, as a new part of itself. The «*auto-dynamis*», 'self-squared', or 'self-

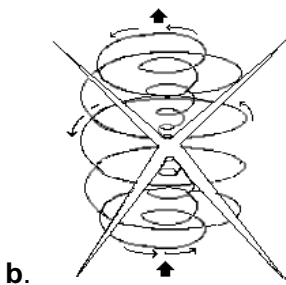
powered' ideographic model for this Pictogram is: $\underline{S}_{\tau+1} = \underline{S}_\tau \underline{S}_\tau = \underline{S}_\tau^2$, or $\underline{S}_\tau = \underline{S}_0^{2^\tau}$, such that

$\underline{S}_\tau^2 \equiv \underline{S}_\tau \cup 2^{\underline{S}_\tau} \equiv \underline{S}_\tau \oplus \Delta^1[\underline{S}_\tau] \ddagger \underline{S}_\tau$ wherein $2^{\underline{S}_\tau}$ denotes the "Power-Set" [the set of all subsets] of \underline{S}_τ . Herein, $\underline{S}_0 \equiv 2^{\underline{U}}$, denoting the *finite* universal set, or set of all 'constructed'

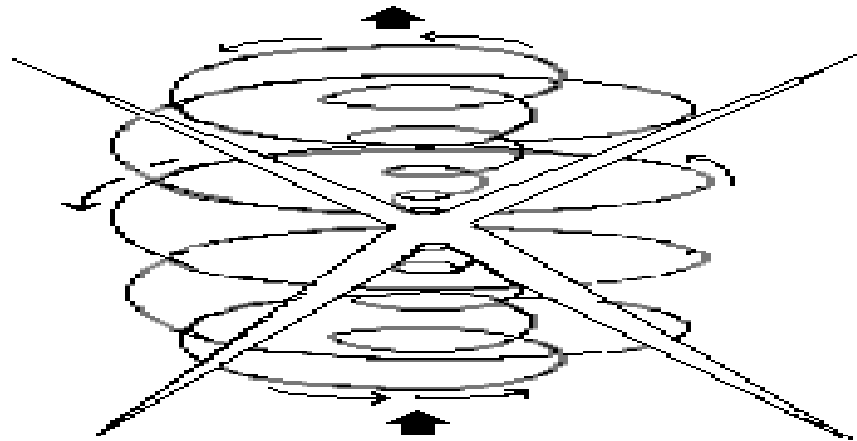
'basic'/'logical type 0' "logical individuals", inhering in the universe of discourse in question. It is *finite* per our '*Principle Of Metafinitude*', that '*infinity is counter-[f]actual*'. The next, $(\tau+1)$ st 'epoch' of \underline{S}_τ contains/'conserves' every subset of the τ th stage of \underline{S}_τ including, in «*aufheben*» fashion, its "improper subset", the *whole* set \underline{S}_τ itself. Each such subset represents, "extensionally", the "intensional"

predicate symbol for the quality shared by all of its members. Thus the $\underline{S}_0^{2^\tau}$ *cumulum* is interpretable also as an *extensional*, syntactical model of what we term '*Predico-Dynamasis*', as well as being serviceable as a set-model of '*Ideo-Onto-Dynamasis*', with sets of higher "logical type" modeling/representing 'meta-

ontos' or 'populations' of 'meta-monads' of higher 'meta' degree, i.e., of higher τ -degree in Δ^1 . *The Set Of All Sets* ever fails to attain itself, to fulfill its definition, because it *always* falls short of itself by itself and its proper sub-sets -- its power-set -- in that they are never included among its members for any given/possible attempt at itself. It is thus forever 'self-driven' -- 'self-definition-driven', 'self-essence-driven', 'self-nature-driven', or 'definitionally self-powered' -- to self-internalize, to take into itself, into its membership, itself, plus its proper subsets -- its own power-set. But, each time it does so, this very self-movement, or «*auto-kinesis*», of self-incorporation, self-involution, or of self-subsumption, changes 'itself', and thus only re-establishes the problem of its self-exclusion/proper-subsets-exclusion on a higher-scale/level. It is a 'motion-being', not a 'stasis-being'. As an 'idea-object', it is a perpetual 'motion object', an object made of constant change -- a 'mental river', like the "river" of Heraclitus, such that "'it is not possible to step *twice* into *the same* river'". We term that type of paradox which *The Set Of All Sets* presents to the Parmenidean mentality a 'non-standard paradox'. We do so because, the 'standard paradoxes', such as the «*pseudomenon*» of Epimenides of Crete, or "The Liar's Paradox" [e.g., "'I tell you truly that I am a Cretan, and that all Cretan's are liars.'", or "This sentence is false."], and the Russell Set [of all sets which are not members of themselves, which therefore . . . is/is not/is/is not. . . a member of itself], are merely 'truth-value self-oscillators', purely cyclical, and likenable to a kind of nonlinear, "instantaneously" alternating "limit-cycle" in truth-value state-space. *The Set Of All Sets*, on the other hand, posits a 'self-«*aufheben*»' progressive, cumulative, 'evolutive', never-exactly-repeating, ever-new, self-induced expansion of itself as the "universe" of sets, which is also a self-induced self-expansion of the ontology of sets and of their highest extant "logical type". *The Set Of All Sets* is also nothing less than the central object of set theory, the set-theoretical, "extensional" definition of the "intension" of the set concept itself. The implicit, tacit 'Parmenidean Postulate' of standard set theories holds that mathematical objects must exist in a "Platonic" form of "perfect", "eternal «*stasis*»" and immutability, not in a state of «*kinesis*»; certainly not, as in the case of *The Set Of All Sets*, in one of 'self-mutability', let alone one of continual, "eternal" 'self-induced mutation! The «*auto-kinesis*» character of *The Set Of All Sets*, as set-theories' "natural" definition of 'Set-ness' itself, constitutes a «*reductio ad absurdum*» self-refutation of that 'Parmenidean Postulate'. This realization founds H.



or



- ≡ Pictograms for the *Cyclonic Vortex* or *Toroidal Vortex* Paradigm of *Self-Developing Process*, an image of dynamic-re-iterative and *cumulative self-reflexion* as mediation for *self-reflexion*. Its out-welling, out-flowing upper 'half', termed the '*cornucopia*', is opposed and completed by its in-welling, in-flowing lower 'half', the *intra-dual* of that upper 'half', termed the '*duat*'. The star-rays emanating from the heart of the eye of this vortex signify the locus of 'meta-finite' self-bifurcation 'conversion singularity', of 'meta-fractal-ogenic' [self-«*aufheben*»] self-subsumption / self-involution / self-incorporation / self-composition, or of "meta-system transition" [cf. Turchin]; in short, of the *onto*-dynamical, *meta*-dynamical self-movement that constitutes *meta*-evolutionary ["revolutionary"] self-change.