

## Glossaries

### Glossary of Technical [Phonetic/Phonogramic] Terms, including Neologia

α. words beginning with the letter "a".

**'absolute atomism'** ≡ The doctrine that there must be a "'final level of analysis'"; that there must exist "'final units of analysis". Such a base of ultimate, indivisible, *not-further-analyzable* «*monads*», constituting the true «*arché*» or "'premise" of all being, all ontology, is ostensibly required lest there be posited an "'infinite regress"', and a *temporal violation* of **E.D.**'s '**Principle of Metafinity**', whether or not that ultimate «*arché*» turns out to be the '*pre-nuclear "particles" onto*' [denoted  $\underset{\vee}{1}_n$ , per the **Encyclopedia Dialectica** [**E.D.**] standard ontological partitioning of the '*taxonomy level one*', or ' $\underset{\vee}{1}$ ', cosmos], or otherwise. This hypothesis is closely related to today's standard "*reductionist*" hypotheses. It contrasts with the '*relative atomism*' of the post-**n** epochs of the dialectic of nature for the '*self-constructionist*' hypothesis embedded in **E.D.**'s **nQ** model of the *historical dialectic* of '*taxonomy level one*' cosmos '*self-meta-evolution*', denoted  $\underset{\vee}{1})-|-(\tau\uparrow = \langle \underset{\vee}{1}_n \rangle^{2\uparrow}$ . All this calls for a *dialectical synthesis* of '*absolute atomism*' **versus** '*relative atomism*', as well as of "*reductionism*" **versus** '*self-constructionism*'.

**'actionics'** or **'actonics'** ≡ The field arising from '*dialectical synthesis*' of the ontological concepts of '*verb-like being*', or '*event*', and '*noun-like being*', or '*entity*', in the **E.D.** '*eventivity ontology*' [cf. Whorf, Whitehead, Bahm, etc.], or '*actons ontology*'. Practitioners of this field seek to model the *self-developing eventivity-content* of the '*taxonomy level one*' cosmos, or of other, e.g., '*sub-cosmic*', or '*taxonomy level-two +*', universes of discourse, via the '*meta-numerals*' of the **nQ** *dialectical ideography* and its *sequel*, interpreted as denoting '*act[i]on(s)*', «*karmas*», «*aufheben*» operators, & '*ontological categories*', representing '*populations*' [«*arithmoi*»] of '*eventities*'. Also termed '*karmics*' or '*karmic meta-dynamics*'.

**'actualization space'** ≡ Contrasts with '*possibility-space*'. Names that kind of '*meta-number space*', and of ideographical *dialectical language*, which becomes possible, in **E.D.**'s *pedagogical*, '*metasystematic-dialectical*', categorial-progression/systems-progression exposition of the '*ideo-meta-evolution*' of the *dialectical ideographies*, with the transition from the '*unquantifiable ontological qualifiers*' of the standard interpretation of the **nQ**  $\mathbb{F} \rightarrow \mathbb{Q}_2$  system of dialectical arithmetic, to the '*quantifiable ontological qualifiers*' of the standard interpretation of the **nU**  $\mathbb{F} \rightarrow \mathbb{Q}_3$  system of dialectical arithmetic. The '*meta-number space*' of the **nQ** system of arithmetic, denoted **nQ**, is able to express, by its '*meta-models*', denoted by  $\mathbf{n, \underset{u}{n}Q\tau\uparrow}$ , or, e.g., by  $\underset{u}{n})\mathbb{I}(\tau\uparrow$ , only whether or not '*ontos*' or '*ontological categories*' are *possibly* extant within epoch  $\tau$  of the self-development of universe of discourse **u**, for its taxonomy level **n**. It is not able to assert whether or not they *were/will* be finitely-manifested, or *actualized*, within that *past/future* epoch, or to express the *measured/expected magnitude* of any such '*extantcy*'/finite manifestation. The '*meta-number space*' of the **nU** system of arithmetic, denoted **nU**, is, on the contrary, capable of stating, via its '*meta-models*', denoted  $\mathbf{n, \underset{u}{n}U\tau\uparrow}$ , which '*ontos*' or '*ontological categories*' were/will be *actually* extant within epoch  $\tau$ , and the *measured/expected magnitude* of that '*extantcy*', in terms of the *population census count* of the «*monads*», or "'individuals'", constitutive of each extant '*onto*', or «*arithmos*». Non-extant '*ontos*' are held to be

''*infinitesimally-manifest*'' , i.e., finitely '*un*manifest', and are consolidated into the singular '*existential absence*' value,  $u_0$ . The  $\underline{N}\underline{U}$  language can formulate, although only *implicitly*, in terms of "*dimensionless*", [ implicitly  $\hat{\mu}_u$  ] metrical units, but *not*, implicitly or explicitly, in terms of any other, "*dimensional*" or metrical units. Such explicit "*dimensional*" or metrical units first become possible -- generically denoted by the  $\hat{\mu}_{\sum_j \alpha_j \hat{u}_j}$  units, or «*monads*», -- with the  $\underline{\mu}$  system of dialectical arithmetic. That is, the latter, '*metrical-units ideograms*' or '*metrical qualifier meta-numbers*' arise explicitly within the higher ideography of  $\underline{\mu} \rightarrow \mathbb{Q}_7$ . That ideography is the next *major* system of *dialectical ideography*, and the next full *dialectical synthesis*-system, that succeeds the  $\underline{N}\underline{U} \rightarrow \mathbb{Q}_3$  first-*dialectical synthesis*-system, in *E.D.*'s '*metasystematic-dialectical systems-progression method of presentation of the 'ideo-meta-evolution' of the *E.D.* dialectical ideographies.*

**affective**  $\equiv$  Pertaining to the more "emotional" as opposed to the more "logical", or '*cognitive*', determinations of the '*intra-duality*' or '*self-duality*' of human[oid] self-awareness.

**affective psychoarchaeology**  $\equiv$  Contrasting with '*cognitive psychoarchaeology*', names that aspect of '*psychoarchaeology*' which endeavors to reconstruct, measure, model, & explain, or account for, the *affective* determinations of *past* epochs of (a) human[oid] specie(')s(') historical '*self-production*' / ''*self-creation*''.

**affective psychohistory**  $\equiv$  Contrasting with '*cognitive psychohistory*', names those aspects of *E.D.* '*psychohistory*', or of *E.D.* '*psychohistorical dialectics*', which endeavor to either reconstruct [*post-dict*], or to ''*pre-dict*'' , the *affective* determinations of, respectively, *past* or *future* epochs of (a) human[oid] specie(')s(') historical '*self-production*' / ''*self-creation*''.

''**algebra**''  $\equiv$  Any ideographic, rule-based written language involving explicit *ideographical* symbolization of both "*known* values", e.g., *specific* constant values [like **(+)**1 in  $x + 1 = 0$ ], and of *generic* "constants" or "parameters", *plus* of "*un*known values" / "variables". Thus, any '**arithmetic**<sup>2</sup>', or '**arithmetic** of higher degree' [of ''degree'' > 1], is, in our sense, an **algebra**, if it includes within itself [*generic*] *variable* symbols, e.g., **x** in one of the "**Real**"-number arithmetic's *un*solvable equation -

$$x^2 + 1 = 0$$

-- or  $\mathbb{Q}$  in the  $\underline{N}\underline{Q}$  'meta-natural meta-number' dialectical & purely-qualitative arithmetic's *solvable* 'contra-Boolean' equation [or, more aptly, in the following '*qualitative inequality*', or 'ontological *inequality*'] -

$$\mathbb{Q}^2 \not\leq \mathbb{Q}^1$$

-- etc., plus *generic constant-value* symbols, or "parameters", e.g., **m** and **b** in the *generic* 'pure-qualifiers' algebraically *linear* "curve"-equation --

$$y = mx^1 + b$$

-- for the purely-quantitative **R** arithmetic, or  $\mathbb{Q}_n$  such that  $n \in \mathbf{N}$ , for the  $\underline{N}\underline{Q}$  'meta-natural' arithmetic of dialectical & purely-qualitative 'meta-numbers'. Each such parameter is a *generic* 'meta-arithmetical meta-

value', or 'arithmetical value of degree **2**', each being "'made up out of'" [or "ranging over"] a heterogeneous multiplicity [or sub-«*arithmos*»] of *specific*, 'arithmetic<sup>1</sup>', values/constants -- 'arithmetical values of degree **1**'.

**Mu ideography** [ denoted  $\underline{\mathbf{M}} \xrightarrow{\mathbb{Q}_7} \mathbb{Q}_7 ] \equiv$  [formerly termed the "Alpha-Mu Ideography"; retained in this sub-section of the *Glossary* section for continuity] That axiomatic system, & that '*ideo-ontological*' category, of *dialectical ideography* which corresponds to the  $\underline{\mathbf{N}}\mathbf{Q}$  meta-number  $\mathbb{Q}_7$  in the  $\underline{\mathbf{N}}\mathbf{Q}$  'meta-model' of the '*metasystematic-dialectical*', *categorial-progression/systems-progression* exposition of the '*ideo-meta-evolution*' of the *dialectical ideographies*. Its  $\underline{\mathbf{R}}\mathbf{U}$  version *dialectically synthesizes*, '*ideo-ontologically*' hybridizes, or "'complexly unifies"' three predecessor systems / sub-systems of *dialectical arithmetic*: (1) the Hindu-Arabic-numeral-*ideographical* arithmetical sub-system for the **N** quantifiers, for "pure", 'unqualified' *quantification*, extended to the **R** "Real" numbers, with Hindu-Arabic/decimal numeral "time-varying" function-values denoted  $\mathbf{k}(t)$ , with positive non-fract[ion]al subscripts  $\mathbf{k} \in \mathbf{R}$ ; (2) the ideographical-arithmetical sub-system for *dimensional analysis*, i.e., for "'metrical qualifiers"', or for the '*metrical qualification*' of *ideographical-arithmetical expressions*, denoted  $\hat{\underline{\mathbf{M}}}_{\mathbf{U}}$  with '*meta-numerals*' of the form  $\hat{\underline{\mathbf{M}}}_{\sum_j \alpha_j \hat{\mathbf{U}}_j}$ ,  $\alpha_j \in \mathbf{R}$ ,  $\alpha_j \hat{\mathbf{U}}_j \in \underline{\mathbf{R}}\mathbf{U}$ ; (3) the ideographical-

arithmetical sub-system for *ontological qualifiers*, or for the '*ontological qualification*' [including for dynamical system *state-variable qualifiers* and *control-parameter qualifiers*] of *ideographical-arithmetical expressions*, denoted  $\hat{\underline{\mathbf{M}}}_{\mathbf{R}}$ , with '*meta-numerals*' denoted  $\hat{\underline{\mathbf{M}}}_{\mathbf{k}}$  with positive non-fract[ion]al subscripts  $\mathbf{k} \in \mathbf{R}$ . E.g., the product  $(\mathbf{k}(t)) [\hat{\underline{\mathbf{M}}}_{\sum_j \alpha_j \hat{\mathbf{U}}_j}] [\hat{\underline{\mathbf{M}}}_{\mathbf{k}}] = \mathbf{k}(t) \hat{\underline{\mathbf{M}}}_{\mathbf{k} + \sum_j \alpha_j \hat{\mathbf{U}}_j} \in \underline{\mathbf{R}}\mathbf{U}$ , with the subscript,  $\mathbf{k} + \sum_j \alpha_j \hat{\mathbf{U}}_j$ , exemplifying what we

term a "non-amalgamative sum" [cf. Muses], in this case adding together an **R**-based "Real" number 'pure quantifier',  $\mathbf{k}$ , to a [sum [  $\sum$  ] of]  $\underline{\mathbf{R}}\mathbf{U}$ -based  $\hat{\underline{\mathbf{M}}}_{\mathbf{U}}$ -qualified "'monadic"' [or 'unitic'] "Real" quantifiers,  $\alpha_j \in \mathbf{R}$ , together forming  $\sum_j \alpha_j \hat{\mathbf{U}}_j$ , with the latter representing a particular "dimensional unit", or "unit of measurement".

"**android robotics**"  $\equiv$  Engineering design of robotic artifact configurations in  $\underline{\mathbf{U}}$  mimesis of the human form, plus with effective "artificial intelligence", and denoted, in the *E.D.* standard notation, by  $\sum_{\mathbf{R}} \mathbf{r} \xrightarrow{\mathbb{Q}_2} \mathbb{Q}_2$ . It constitutes one of the three «*species*» of the *E.D.*-predicted, '*Dialectical Theory-of-Everything Equation*'-pre-constructed next-to-irrupt new '*taxonomy level one*' «*genos*» ontological category, that of '*the meta-human*', denoted by -

$$\hat{\Delta}_{\mathbf{V}}^1 \mathbf{h} \equiv \hat{\mathbf{V}}^1 \underline{\mathbf{meta-humanity}} \equiv \hat{\mathbf{V}}^1 \mathbf{Y} \xrightarrow{\mathbb{Q}_{512}} \mathbb{Q}_{512}$$

-- the other two «*species*» being that of human-**g**enomic self-re-engineering, denoted by  $\sum_{\mathbf{R}} \mathbf{g} \xrightarrow{\mathbb{Q}_1} \mathbb{Q}_1$ , and that of **c**yborg prosthetics/bionics, denoted by  $\sum_{\mathbf{R}} \mathbf{C} = \sum_{\mathbf{R}} \hat{\mathbf{C}}_{\mathbf{rg}} \xrightarrow{\mathbb{Q}_3} \mathbb{Q}_3$ , per the *E.D.* standard notation.

'ani-societies' ≡ Pre-humanoid & extra-humanoid, proto-language-based animal societies; 'meta-meta-zoa'.

This E.D. taxonomy level one 'physo-ontological category' is connoted by  $\underset{\vee}{1} \ell = \underset{\vee}{1} \otimes \text{bb} \xrightarrow{E} \mathbb{1}_{128}$  in the

E.D. 'Dialectical Theory of Everything equation',  $\underset{\vee}{1} \text{---} | \text{---} \langle \tau \uparrow \rangle = \langle \underset{\vee}{1} \text{---} \text{---} \rangle^{2 \tau \uparrow}$ .

«arché» ≡ [from Ancient Greek] *beginning*; starting-point; point of departure; initiator; first, "archaic" or most ancient, *ever-present origin* [cf. Gebser]; *ever-governing source* [cf. Klein]; founding, *ultimate 'meta-genealogical' ancestor*, ever-«*aufheben*»-conserved within all [of its] *descendants*.

«arithmetic» ≡ Any ideographical, rule-based written language involving explicit ideographic representation of *only* "known values" or "constants"; thus, an 'algebra of degree zero'. The conceptual, introspective science of «*arithmoi*», including of the «*arithmos eidetikos*» of Platonic «*dialektiké*», as well as of the «*arithmos monadikos*» of Platonic «*dianoia*». The field of study wherein the conceptual continua of operations/operators are conceptually broken out, divided, discretized, or '*discontinuiized*'/'*discontinued*' into «*monads*», units, or unities. The [mental] '*mensuration*', '*unit-ification*', or '*a-rhythmos-ization*' of the [mental aspect of the] Heraclitean «*rheos*». The standard case, cardinal or **N** arithmetic, involves an '*a-rhythmos-ization*' whose «*monads*» are *abstract, generic, apparently purely-quantitative units of the counting operation/operator itself*.

«arithmoi» ≡ [from Ancient Greek] plural of «*arithmos*»; assemblages or ensembles of *qualitative* units, or «*monads*».

«arithmos» ≡ [from Ancient Greek] an assemblage of units or «*monads*» [⊥ akin to the "set" concept in modern mathematics].

«arithmos aisthetos» ≡ [from Plato, via Aristotle] an *assemblage of sensible* -- and sensuously, sensorially apparently *discrete*, '*a-tom-ic*' -- *empirical units*, or «*monads*». "Practical" "'arithmetic'" as applied to such units. The problem with such "'arithmetic'" is that it must abstract from the "imperfection" or "variability" of such sensuous *units* or *individuals* -- e.g., from the *manifold sensorially-detectable differences* between one apple and another, one orange and another, etc. -- to pretend, by such abstraction, that, e.g., every such apple is identical to every other; that every orange is identical to every other, etc., so that they can be "counted up" as *equivalent units* of "the same, identical thing". Otherwise, outside of this abstraction -- i.e., in detail -- each such "'unit'" is unique, so that the "'counting'" process could not get "'passed'" or "'past'" the "'count'" of "'one'".

«arithmos eidetikos» ≡ [from Plato, via Aristotle] The unique *assemblage of the 'psychohistorically material', 'mentally-seeable', 'mentally-objective'* -- i.e., of the potentially '*intersubjectively-objective*' and '*intro-empirical concept-objects* or *idea-objects*; of *concept-units* [*concept-«monads»*] or *idea-units* [*idea-«monads»*] -- fundamental categories, each unique unto itself, but internally, ontologically related to all of the others, as required by, and as explicitly or implicitly invoked by, all speech, all discourse, all thought, all cognition. The "arithmetic" of these «*eide*» «*monads*» or «*ideai*» «*monads*» embodies that higher form of reason known as dialectics, transcending but informing the formal-logical, deductive rationality of the «*dianoia*»; of 'dianoesis'. Cf. the "*formal operations*" stage of adult cognitive development [Piaget], versus '*the dialectical operations epoch of adult-human[oid] cognitive meta-evolution*' [E.D.]. Cf. «*vernunft*», or "'*dialectical reason*'", versus «*verstand*», or "*the understanding*" [cf. Plato; ⊥Kant; Hegel]. Cf. Hegel's "'*systematic dialectical*'" exposition of the "'*fundamental universal*[ categorie]s'" in his «Logik».

«arithmos monadikos» ≡ [from Plato, via Aristotle] any given *assemblage of the 'psychohistorically material', 'mentally-seeable', 'mentally-objective'* -- i.e., potentially '*intersubjectively-objective*' and '*intro-empirical* -- *concepts, concept-objects, or idea-objects*; *concept-units* [*concept-«monads»*] or *idea-units* [*idea-«monads»*],

which constitute the «*monads*», or units, required by, and explicitly or implicitly invoked by, all counting, all "'practical arithmetic'" or "'logistics'", all «*dianoesis*» regarding the «*arithmoi aisthetoï*» of human-sensory experience. Also sometimes termed the «*arithmos mathematikos*».

“**atomic power**” ≡ Names that epoch in the human-social appropriation, by human[oid] social formations, of pre-human-natural/extra-human-natural forces -- of their incorporation into the human-social forces of generally self-expanding human-societal self-[re]-production -- that arises after that of the predominance of 'molecular power', e.g., of the current Terran epoch of 'The Dictatorship of Petroleum', and before those of 'sub-atomic power' and 'sub-nuclear power', per E.D.'s standard ontological partitioning of 'taxonomy level one' cosmos 'meta-evolution'. That epoch characterized by the harnessing of both radioactively 'highly-pollutive', 'externality-intensive' nuclear fission power, and potentially radioactively non-polluting, more 'energetic' nuclear fusion power, to [re]-energize and [re]-accelerate an otherwise catastrophically contracting human-societal self-reproduction. Note that these 'psychohistorical' epochs in the appropriation of the «aufheben»-conserved products of 'pre/extra-human nature' by 'human-nature' arise in a reverse-recapitulative order of the emergence of these products in their 'meta-evolutionary' "'order of appearance'" [cf. Chardin].

“**atoms**” ≡ [adopted into Modern English from Ancient Greek] Name of an ontological category, or 'onto', of the  $\overset{n}{\mathbb{Q}}\tau\uparrow$  universal encyclopedia, interpreted for the 'taxonomy level-one' cosmos-model, denoted  $\overset{1}{\mathbb{Q}}\tau\uparrow$ , or  $\overset{1}{\mathbb{I}}\tau\uparrow$ , or  $\overset{1}{\mathbb{V}}\tau\uparrow$ . Refers to the qualitative/'ontological increment', 'incremental ontology term', or ' $\overset{1}{\mathbb{A}}$ ' term, in --  
 $\overset{1}{\mathbb{V}}s^1 \rightarrow \overset{1}{\mathbb{V}}s^2 = \overset{1}{\mathbb{V}}s \langle \overset{1}{\mathbb{V}}s \rangle = \overset{1}{\mathbb{V}}s \oplus \overset{1}{\mathbb{A}}\overset{1}{\mathbb{V}}s = \overset{1}{\mathbb{V}}s \oplus \overset{1}{\mathbb{A}} \quad \frac{1}{2} \quad \overset{1}{\mathbb{V}}s \mapsto \mathbb{Q}_2$

Denotes the category of 'meta-sub/-pre-atomic' "particles" which are made up out of heterogeneous multiplicities of sub-/pre-atomic "particles". Individual atoms, the 'units', or «*monads*», of this universe's local populations, or concrete «*arithmoi*», of the  $\overset{1}{\mathbb{A}} \mapsto \mathbb{Q}_4$  'ontic category', thus result from the 'self-meta-unit-izations', or 'self-meta-«*monad*»-izations' -- the 'self-subsumptions', 'self-incorporations', or 'self-internalizations' -- of local manifolds/populations/concrete-«*arithmoi*» of sub-/pre-atomic "particles", e.g., electrons, protons, and neutrons. Obviously, then, this  $\overset{1}{\mathbb{A}}$  does not denote the category of the "'indivisible'", 'uncuttable', or «*a-tom-ic*», units, or «*monads*», as imag[in]ed by the ancient Greek "atomists".

«**aufheben**» ≡ [from Modern German, after Hegel, with modifications] The conceptual operation or operator which concurrently: [a.] "cancels" or "annuls", [b.] "conserves", and [c.] "elevates" or 'transcendentalizes' its operand. The generic higher-arithmetic operation performed by every  $w_{\mathbb{Q}_w} \in w_{\mathbb{Q}} \ominus \{ w_{\mathbb{Q}_0} \}$ , per the 'double-«aufheben» evolute product rule' of *Dialectical Ideography*, where  $w \in \mathbf{W} \equiv \{0, 1, 2, 3, \dots\}$ .

**«aufheben» evolute product rule** ≡ The rule  $\mathbb{Q}_n[\mathbb{Q}_m] \equiv [\mathbb{Q}_m \boxplus \mathbb{Q}_{n+m}]$ ,  $\frac{1}{2} \mathbb{Q}_m[\mathbb{Q}_n] \equiv [\mathbb{Q}_n \boxplus \mathbb{Q}_{m+n}]$ , given  $n, m \in \mathbf{N}$ , where  $\mathbf{N}$  denotes the 'space' or 'set' of the "Natural" Numbers. If  $n = m$ , then we have:  
 $\mathbb{Q}_n[\mathbb{Q}_n] \equiv [\mathbb{Q}_n \boxplus \mathbb{Q}_{n+n}] = [\mathbb{Q}_n \boxplus \mathbb{Q}_{2n}] = \mathbb{Q}_m[\mathbb{Q}_m] \equiv [\mathbb{Q}_m \boxplus \mathbb{Q}_{m+m}] = [\mathbb{Q}_m \boxplus \mathbb{Q}_{2m}]$ .

**auto-duality** ≡ Nuanced quasi-synonym of *self-duality*; note context of usage.

**auto-dyad** ≡ Nuanced expression connoting *self-duality*; note context of usage.

«**autokinesis**» ≡ [from Ancient Greek] *self-induced change/motion; self-movement; self-reflexive self-propulsion.*

**auto-negation** ≡ 'self-negation', 'self-induced transformation', or 'self-transformation'; 'quanto-qualitative' change(s) induced in a system, not by the "'outside agitators'" of other systems, but by the 'inside agitators' of the immanent, ontological 'intra-duality', or 'self-duality', of the self-same system itself.

**autopoiesis** ≡ [adopted into Modern English from Ancient Greek] 'self-making', 'self-production', 'self-creation' - the self-reflexive moment of «*poiesis*» = 'making'.

“**Axiom of Choice**” ≡ A locus of the dialectical, immanent critique of the ideology in contemporary mathematical science. The axiom of 'actual-infinitistic' Zermelo-Fraenkel Axiomatic Set Theory that helps to enable many "non-constructive" "proofs". It asserts that, for any arbitrary set [i.e., including for any supposed "actually infinite" set], there exists an operation, or function, called the *choice function*, or *selection function*, which chooses a specific element from each member of the "power set", or *set of all subsets*, of that set, for each such subset which is not the empty set. The *axiom of choice* is rejected by varieties of *constructive mathematics*, such as *constructive set theory*, in which it implies the *law of the excluded middle*, rejected by "intuitionistic" and 'constructionistic' formal logic. If the *axiom of choice* is assumed true, the *Banach-Tarski Paradox*, a 'paradox of point-atomism', follows. This paradox states that a *single* unit-radius "solid" spherical point-set, or "ball", can be finitely decomposed and re-assembled, using only length-preserving, rigid motions, into two unit-radius such spheres. Gödel and Cohen's work established the *Gödel-undecidability* of the *axiom of choice* from the other axioms of Zermelo-Fraenkel Set Theory, and from the *Generalized Continuum Hypothesis*.