

The Principle of 'Evolute, Non-Amalgamative' [cf. Musès] 'Cumulum'.

Sums of *distinct* $\mathbb{N}^{\mathbb{Q}}$ 'meta-number *qualifiers*' are unlike *sums* of *arithmetical* "pure"-*quantifiers*, such as those of the "Natural" numbers, **N**, the "Whole" numbers, **W**, the *Integers*, **Z**, the "Rational" numbers, **Q**, & the "Real" numbers, **R**.

'*Qualifier sums*' are *different* from '*quantifier sums*' in that *sums* of *distinct* $\mathbb{N}^{\mathbb{Q}}$ '*qualifier meta-numbers*' do *not* simply collapse into a *single* '*meta-number qualifier*' *value* [see axiom **Q8**].

That *concurrent representation* of *qualitatively distinct category-symbols, representing ontologically distinct kinds of individuals*, that is their "*sum*" *simply* means the *co-presence* of *all* of these *symbols*.

This *co-presence* transpires within the *stroboscopic moment modeled*, as the starting state of a given epoch or **S**tep, captured just *prior* to the *onset* of these *symbols*' other-interaction & self-interaction -- of the other-multiplication & self-multiplication among *all* of these *symbols*.

All such interactions/multiplications await the *categories-symbolic representation* of the *next* epoch or **S**tep.

This "formal" feature mimes the "facts on the ground".

The *physical 'cumula'* of our *cosmos*, the various «*monads*» of the various kinds, in existence within any given natural-historical epoch, do not all collapse into a single kind, e.g., to a *single* synthesis or hybrid kind of *unit*.

Like the *value* $1 + i \in \mathbb{C}$, in the space, **C**, of the **C**omplex *numbers axioms-system*, **C**, so too the *category-symbol sums*, or '*cumula*'-*values, generated*, e.g., by the various $\mathbb{N}^{\mathbb{Q}}$ Seldon Function based '*meta-model meta-equations*', do *not* "*amalgamate*" [cf. Musès] into any *single*, "one-dimensional" *value*, or "*scalar*".

Like the vital signs monitor above a hospital bed, with *separate* displays for heart-beat-rate, blood oxygenation, etc., or like a *multi-component* "*state-vector*" -- an *expression* for the *multi-dimensional* "*state*" of a "*dynamical system*" -- the *distinct category-symbols* in an epochal '*cumulum*', or in a *presentation-S*tep '*cumulum*', are more like the proverbial "*apples* ⊕ *oranges*".

They are *inhomogeneous* -- *ontologically heterogeneous*. *Each category-symbol* must be *tracked*, and *solved-for, separately*.

Such '*cumula*' are *also* '*evolute*', as *opposed* to '*convolute*'.

This is so in the sense that the *ontological category symbols content* of *earlier* epoch, or *earlier presentation-S*tep, is *still visible, still extant*, in the '*cumula*' of *all subsequent* epochs/**S**teps.

This does *not necessarily* mean that the *actual units* that *all* of those *past ontological categories-symbols represent mathematically* are *really* still *existent* in the *actual 'cumula'* *represented* by all of the *subsequent 'meta-model'* stages.

We *interpret* the $\mathbb{N}^{\mathbb{Q}}$ '*cumula*' as residing in a '*Possibilities-Space*', *not* in a '*Certainty of Manifestation*' *Space, not* in an '*Observed-Actualizations Recording*' *Space*, or even necessarily in a [*high*] '*Probability of Manifestation*' *Space*.

Their presence in the $\mathbb{N}^{\mathbb{Q}}$ 'Possibilities-Space' *representation simply* means that those *categorially symbolized past-actual units* still remain as '*combinatorially possible*' candidates for actual existence, for [continued] actualization, in stages subsequent to their *first* irruption into existence -- i.e., in the epoch or Step in question.

Thus, the key *ontological categories* of the Encyclopedia Dialectica 'Taxonomy Level One' *cosmos-model*:

$\underset{\vee}{\underset{\vee}{1}}\underline{n}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{s}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{a}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{m}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{p}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{e}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{b}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{\ell}^{\vee} \ddagger \underset{\vee}{\underset{\vee}{1}}\underline{h}^{\vee} \ddagger \underline{\partial}\underset{\vee}{\underset{\vee}{1}}\underline{y}^{\vee}$

-- are mutually qualitatively unequal [\ddagger]. Thus, *the* [non-amalgamative] *sum*, or *symbols-*'cumulum' --

$\underset{\vee}{\underset{\vee}{1}}\underline{n}^{\vee} \oplus \underset{\vee}{\underset{\vee}{1}}\underline{s}^{\vee} \oplus \dots \oplus \dots \underset{\vee}{\underset{\vee}{1}}\underline{a}^{\vee} \oplus \dots \oplus \dots \underset{\vee}{\underset{\vee}{1}}\underline{m}^{\vee} \oplus \dots \oplus \dots \underset{\vee}{\underset{\vee}{1}}\underline{p}^{\vee} \oplus \dots \oplus \dots \underset{\vee}{\underset{\vee}{1}}\underline{e}^{\vee} \oplus \dots \oplus \dots \underset{\vee}{\underset{\vee}{1}}\underline{b}^{\vee} \oplus \dots \oplus \dots \underset{\vee}{\underset{\vee}{1}}\underline{\ell}^{\vee} \oplus \dots \oplus \dots \underset{\vee}{\underset{\vee}{1}}\underline{h}^{\vee} \oplus \dots \oplus \dots \underline{\partial}\underset{\vee}{\underset{\vee}{1}}\underline{y}^{\vee}$

-- *cannot reduce* to *any single category-unit symbol*.

Instead, *it* remains a 'multi-ontic, multi-meta-monadic, multi-categorial cumulum'.