The Favoring Forces From Energetics to the Aesthetics: The Aporiginal, Apotropic & Apofixing Ladder of Goodness

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The classical thermodynamics & mass-energetics specializes for the physical, chemical & biological energetics. They have fundamental general definitions in the mass-thermodynamic laws, that would evolve & adapt to their niche. Biology has further levels of activity- fitness & aesthesis achieved through adaptation & evolution. The fitness & adaptability could affine to energy more while aesthesis & evolvability would emerge from the free energy equivalent. The entropy could tend to the aesthotropism with the lower fitness tendency & the still lower chemo-physical favor for energy. This shall affirm the apotropism of this goodness ladder towards all-absorptive aesthetic bright holes (figure 5.1 below).

Emergence of higher levels of order would introduce the systems to the higher in this universal goodness ladder. The Bioenergetics is an intermediate phase linking the chemo-physical Energetics to the Fitness-Aesthetics. Entities could be born at their integrated unique-(neo-higher-harsh) position on the ladder of goodness by the virtue of exclusion principle of elements of the exact composition of the real & the modern-scientific & higher, harsh exception of the ethereal, respectively. The apocity on the ladder of goodness would favor apotic systems to impart them with originality leading to the aporiginal apotropic ladder of goodness. The Ladder of Goodness irreversibly fixes apotropic apocites, perfect (maximal- original, concluded) & progressive (apotropic- original, evolving), likely spiraling to the full aesthetization state with evolutionary time to the infinity given infinite universe.

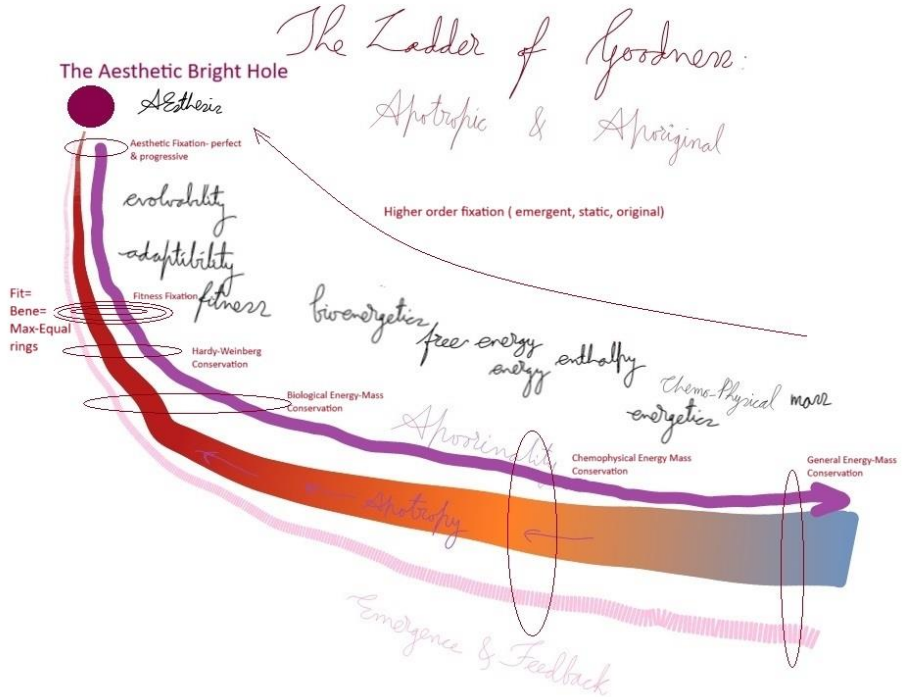

Figure 5.1 Aporiginal, Apotropic & Apofixing Ladder of Goodness

Possible Illustrations of the Aporiginal-Apotropic Phenomenon of the Ladder of Goodness

Photograph 5.1

I. Bio-Energetics of Brahma-Kamal Plant

The rectitude of stemoids isn't maintained in later stages of the stemoid development as in the *Photograph 5.1* in the *Epiphyllum oxypetalum*. This phenotypic "bio-energy" is balanced & reactioned back by lack of extension of rectifying phenogenesis. This reactioned bio-energy could be directed metabolically & physiologically to the new & young stemoids to have it conserved as illustrated below:-

Given the Energy Conservation Law, the rectitude being a positive activity could originate in two ways-

$$[(Ac_0 > 0) + \Delta Ac] = Ac > 0 \; or \; (Ac_0 = 0) + \Delta Ac = Ac > 0 \rightarrow (pre - Ac = (Ac_0 + \Delta Ac)) > 0;$$

thus,

$$[Ac > 0 \leftrightarrow pre - Ac > 0 \wedge |pre - Ac|(>)0] \vee !?;$$
$$[Ac < 0 \leftrightarrow pre - Ac < 0 \wedge |pre - Ac|(>)0] \vee !?;$$
$$[Ac = 0 \leftrightarrow pre - Ac ((> \wedge <)_1 \vee =_2)0 \wedge |pre - Ac|(>_1 \vee =_2)0] \vee !?;$$

$$indicating\ biological\ activity - energy\ conservation$$

For the case of rectitude of stemoids here, assuming classical resultant behavior i.e. lack of neo-higher-harsh exceptions (like the modern physical)-

$$Ac(initial\ rectitude)1 > 0 \rightarrow [(Ac0 > 0) + \Delta Ac1] > 0 \; or \; [(Ac0 = 0) + \Delta Ac1] > 0 \rightarrow [(Ac0 > 0) + \Delta Ac1] > 0 \; or \; [\Delta Ac1] > 0 \rightarrow [(Ac0 + \Delta Ac1) = pre - Ac1] > 0 \; i.e. \; pre - Ac1 > 0$$

$$indicating\ phenogen\ existence, presence\ \&\ expression\ i.e.\ biological\ work;$$

$$Ac(continued\ rectitude) = 0 = \{[Ac(initial\ rectitude)2] + \Delta Ac2\} \rightarrow$$

$$i.\{[Ac(initial\ rectitude)2 = 0] + \Delta Ac2 = 0\} = 0; indicating\ energy\ essenciality;$$

$$\vee$$

$$ii.[Ac(initial\ rectitude)2(>\vee<)0] = -\begin{bmatrix}(\Delta Ac2) = Ac(rectitude\ suppressor) > 0 \\ \rightarrow pre - Ac(rectitude\ suppressor) > 0\end{bmatrix}$$

$$indicating\ pheno - suppression$$
$$i.e.\ vector\ nature\ of\ phenogenic\ forces;$$

Now the total initial & final energies are given as-

$$\sum Ac - E + E' = E1$$
$$Applying\ conservation\ of\ total\ energy, E, -$$

$$(\sum Ac = [(Ac(continued\ rectitude)1 = Ac(re - actioned\ initial\ rectitude)1) + \Delta'$$
$$= Ac(\ initial\ rectitude)2\ ] + Ac'2) + E'2 = E2$$

$$indicating\ energy\ transfer\ between\ stemoids\ as\ open\ sub - systems;$$

$$\Delta'\ could\ be\ \&\ apparently\ is, less\ interfering\ \&\ favoring\ to\ facilitate\ efficient\ energy\ transfer\ among\ stemoids\ to\ create\ a\ version\ of\ Bio - Energetic\ Kirchhoff's\ Law\ at\ bio - energy\ conducting\ junctions;$$

Photograph 5.2(a) *Photograph 5.2(b)*

Photograph 5.2(c)

II. Aestho i.e. Apotropism & Irreversibility of & Conservation of Aesthesis in the Butterfly Mimic Plant

The existence of butterfly female mate floral mimicry of this plant (*Photograph 5.2, a-c*) suggests successful system-original, emergent & static, of hetero-ensembled multiple & varied- biotic (butterfly, plant) & abiotic (climatic favor for wind pollination), higher to lower order (biotic to abiotic), (co-)evolving sub-systems leading to this likely, supra-specific super-organism & super-species. This very success of the floral species & the supra-taxonic aesthetic biological systems, could support the aesthotropic entropy i.e. apotropy, of the Ladder of Goodness. The sharpness & lobocity, the aesthetic features, of plant parts were likely conserved in quite polar phases of flower (finer-sharper & amorphous-lobous) & rest of the plant body (less fine-sharp but more amorphous-lobous) to aid floral luring & more milky-amorphous-fleshy CAM-C4-like physiology, respectively. For this extant phenotype, its phenogen essentially completed the full aesthetization spirals for its existence & value. The phenotype existence & value would further spiral to their maximum at infinity of evolutionary time getting serially irreversibly fixed as shown in *Figure 5.1*.

Photograph 5.3

III. Phylogenic Conservation of Bio-Energy & Reversibility

This species (*Photograph 5.3*) might represent evolutionary diversification of conserved activity-energy of the phyllescence among the *Ashoka* tree species with more-k-strategy-like phyllescence & this putative relative of it with the more-r-strategy-like leaf system. Once these transformations get hyper-polarized, the r & k equilibria could be highly stable due to lessness of phenogen-transforming force, bio-energy & work, for r-mid-k valleys crossing. This might render the transformations mostly irreversible.