



Explorations & Recreations in the Sciences (ERIS), 4th & 5th May 2023

Tarot Tale

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The tarot slide of today, probed me to a filament of possibly a green or brown alga(e). Let us replace me by another co-evolving species organism or possibly a system e.g. the selection pressure vectors introduced by the co-evolving species organism encountering the algal filament we are seeing. This shall lead the deterministic selection pressure be valid randomly over the habitat following the chance interactions of co-evolvers.

The permutations, combinations & integrations of the elements of the evolutionary systems could absorb randomness in many ways from the original random processes. Thus, the intermingled forces terms in the evolutionary dynamics formulae would include the ultimate (horizontal-to-vertical) force terms additive basically & multiplicative when crossed; this is apparent in the quasi-species equation in the terms of the mutation, fitness. So, the fundamental neutral formulae evolve via a stasis into additive & multiplicative terms of the equals.

This applies to the randomness introduced by the example algal interaction. We can feel the randomness introducing into selection on its way to the ultimate additive-multiplicative randomness degree.

Enclosures:-

1. (Video 2.1) Tracing an Algal Filament