

nebulae (fog-clouds) as limits

The **nebulae (fog-clouds) as limits** to grasp cosmic reality the deterministic physics way (bottom up):

The German known microelectronics-scientist Karl Goser (University of Dortmund) profiled basic fog-clouds as barriers for gaining knowledge for man:

I) The quantum-bit-fog-cloud (quantum-foam)

II) The thermo-dynamic's heat-fog-cloud (thermo-foam)

III) The noise cloud (Shannon-statistics) as dissipative split-remainder of higher information realms (W. Gitt – bit-foam)

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- The downward styling of systems, reducing entropy, can with no tricks be explained by endeavours of reductive causality, neither deterministic (a mechanism!) nor quantum-statistically (the Schroedinger-equation remains in spite of the differential-form an equation of expected probabilities!), nor else bottom up the information-hierarchy.
- Details can be strengthened by the quantum-hermeneutic of H. Lenk. K. Goser sees here also a deep relation to Heisenberg's uncertainty-principle. [The PCC of B. Heim and the Q-Philosophy of D. Bohm are parallel):

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- Barry Setterfield's cosmology of decreasing light-speed handles cosmic-wide "seas of PPP" (instead of Dirac's false "vacuum-sea" of electrons). Thermodynamics handles "seas of atoms or molecules", and Barry S., in the spur of H.Alfen, plasma-seas of ions.
- The big-bang-ART-cosmologists smear the cosmic scarcely mass out to a super-fluid of (neutral) atoms; the trick to apply hydro-mechanically shaped deterministic GRT-equations for the whole physical cosmos substrate (atomic foam).

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- The fog-clouds, K. Goser argues, hinder up-ward explaining in favour of downward effect-chains (B.Heim). You can't spike or unveil the fogs, the zippy vacuum influence or the thermo-heat, or the information noise via deterministic upward approaches.
- Naturalistic physics can averagely deal the touched cosmic "seas" with macro-, in most cases quantum-statistics, and find some a-posteriori structures. [E.g. as Barry Setterfield in his light-speed-decreasing issue the cosmic large temporal density phase-swells, plasma-mega-strings to rouse galaxy evolution, all without God's directing action.]
- The physicist KIP S.THORNE underlines the s.-c. *Quantum Bubbling* at each space-time point: „*The quantum foam is overall present: inside a black hole, overall in the stellar space, in the room, in which you are sitting now, and inside your brain*".

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- **A cosmic macro-mass fog-cloud?**
- The scenery of galaxies has two poles (G. F. Ellis):
- Pole I:
 - Our sun-system shaped for our earth with the maximum of order or needed amount of Q-bits to present life: the sink-point of macro-entropy.
- Pole II:
 - The fog-cloud of disordered galaxies as maximum of entropy, balancing the macro-entropy-household of $S(0)$. That can be seen as the entropic perspective of Mach's principle in our black-hole $S(0)$. – galaxy-foam

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- The galactic scenario $S(0)$ is for us observers an a-posteriori result of the transgress from $S(0+1..i..u.)$. In LZ [MLT] I apologized the sudden appearing of our sun-system with all physical features, e.g. as dynamic fusion reactor, the sudden fixing of the reactor clock $H \rightarrow He$ for our eon. All macro- and micro-radio clocks were in analogy fixed at $T(\text{gal})$. [The problem of radio-clocks may be treated this way, and the undigested macro-time-horizons will vanish!]
- The first human couple, Adam and Eve, could post lapsum (after the fall) in principle as astronomers observe a HRD- $T(\text{gal})$, as the whole galaxy scenario came suddenly in relational and dynamical existence. That's not original creation, that's the result of a phase transition $S(..i...u)$ as God's action ruled out from $S(u)$. HRD- $T(\text{gal})$ stands for a moment-shot >after<, as an a-posteriori then observable phenomena-diagram.
- The primordial pre-history in $S(..i..u)$ remains for fallen $S(0)$ -man veiled: the HRD-curtain, may be woven in cosmic strings and plasma-clouds, holds! "No access", say the Cherubim with their flaming swords!

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■ *Applications in Biology:*

- Interaction conscience - brain (J.C.Eccles)
 - clouds of synapses-vesicles against psychons [Quantum treatment of F. Beck]
- Activity of cybersomes in cells (N. Crompton)
 - dissipative clouds of molecules in cell-fluids
- The amount of gene-packets digitally stored on data-banks as symbol-noise against the cybernetic controlling by agent-hierarchies of the phen (organism as super-agent).
- electro-magnetic body-shape as photon-clouds against the electromagnetically mediated instruction-management
- Thermodynamics of Embryogenesis (Dissipation)
- Entropy in Genetics and Computational Biology

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