

# Fifteen surreptitious, copenhagenist and corpuscularist postulates we do not more accept.

## Genesis

We are several physicists who independently discovered the transactional laws of microphysics, as this discovery was unavoidable for 1930. The most famous of us is John G. Cramer. It seems that all of us are heirs of the absorber theory of the electron, by Wheeler and Feynman in 1941, and of P.A.M. Dirac for his 1938 paper : *Classical Theory of Radiating Electrons*.

## Fifteen surreptitious postulates.

### Anti-relativistic postulate

For them, the time remains the Isaac Newton's one, where his god could simultaneously see all.

According to the formalism they teach, their time is a universal and ubiquitous parameter. However any photon violates their postulate, as its proper time is null. The creation and annihilation reactions are simultaneous in the photon's time. However its coherence length and duration are not null: interferences exist!

### Corpuscularist postulate

Or anti-optical postulate, as any quantitative law of optics is incompatible with the corpuscularist ideation. All the spectrography, the interferences (photonic, electronic, or neutronic), the radio-crystallography, the antennas and their directivity, the anti-reflective coatings, the interferential colors, the quarter-wave plates, the Ramsauer-Townsend transparency effect, many fine effects in polarized light, all these facts are incompatible with the myths of the corpuscularism.

For an erroneous half-sentence by Albert Einstein in 1905, they were all convinced that the resurrection by Einstein of the Newtonian corpuscle, was right. However this concept is internal to macrophysics, very far from the atomic limit, and extrapolation to microphysics has never been validated by any experiment.

### Tribal postulate anti-Broglie, anti-Schrödinger, so anti-frequential.

Obligation to negate any frequential phenomenon, except those electromagnetic and massless. Negate the intrinsic frequencies of any particles with mass (spinorial frequency of Louis de Broglie  $\mathbf{mc^2/h}$ , and electromagnetic frequency of Dirac-Schrödinger,  $\mathbf{2mc^2/h}$ ). Negate the two retrochronous components of the electron wave, brought by Dirac equation in 1928. Negate the Zitterbewegung. Hide the Ramsauer-Townsend transparency, 1921, because it proves that the electron IS its brogliean wave.

## Postulate of macroscopic geometry

The copenhagenists postulate auto-similitude of time and space at any scale, with unlimited extrapolations. Furthermore, they extrapolate to microphysics the statistical irreversibility of the macroscopic time, and the topology with unlimited fineness, inherited from the mathematicians of 19<sup>th</sup> century, up to under the atomic limit where it is no more valid at all.

### Geometrical corollary n° 1: “*Something very small*”.

Postulate that you always can find a smaller something, enabling you to assert that something, says an electron, is “*small*”, corpuscular, even “*punctual*”. Bad luck: this smaller something does not exist.

### Geometrical corollary n° 2, anti-absorbers.

*“There are no absorbers in microphysics. Only artillery of corpuscles, exactly as in macrophysics”.*

### Positivist and opportunist postulate.

Systematically put a macroscopic “*observer*” in the middle of the picture, to rule the microphysical realities. Big animals with slow perceptions, instead of analyzing which may be the proper size of mesh for analysis, they deny realities, and set the territorial comfort of the leaders above all.

### Anthropocentrist and positivist postulate.

*“The physical laws are made for the satisfaction of the copenhagenist physicist, to furnish him information”.* If the copenhagenist physicist can not more know for sure the position of the submarine, then the submarine *is in a superposed state between three miles further north and three miles further south (and west and east)*. Banesh Hoffmann scribit...

Daring to distinguish the microphysical realities from the knowledge we have on them, is said to be a heresy and relapse crime. We came about fifteen milliards years too late to dictate that the physical laws should be made for us, but they do not even notice this discrepancy.

### Anti-Fourier corollary.

As the properties of the Fourier transform were established one century earlier, and as Joseph Fourier was a frenchman, and considering the emotional feelings in Germany against France in 1925, Werner Heisenberg was perfectly right to relabel these properties into “*Principle of Cruel Uncertainty of the Immortal Prophet*”. Only a conspiracy of the nature could hide from Heisenberg the exact position of the supposed corpuscle...

## Postulate of separability and delimitability (or postulate of triumphal laziness).

As we can only write a limited system, and as anyway, we are impatient to alleviate already heavy formulas, **therefore** a quantic system **is** naturally delimited, naturally separated and independent of the remaining of the world. Alas, this postulate is heavily wrong.

## Magic and supernatural postulate.

Or if you prefer: goblinic and *poltergeist*: postulate that each quantum particle (electron, photon, neutron, proton...) is individually exempted from any physical law, but magically, in great numbers, its statistic rejoins some statistical physical laws, just as this collectivity blurs the corpuscular properties they were postulated to have. Never the copenhaguists detail the physical miracle by which the individual no-laws is transmuted into a collective law.

## Anti-undulatory postulate.

Though the chemists use it with success, the copenhaguists postulate that any wave under the Schrödinger equation must be fictitious, without any physical meaning, and its only use is to be elevated at hermitian square to obtain the probability of apparition of the magical and supernatural corpuscle. This goblinic and *poltergeist* corpuscle is allowed to explore “*beyond the planet Jupiter*” during its travel from the electrons cannon to the cathodic screen or the microchip to engrave.

Feynman and Hawking have written it, so it must be true...

## Confusionist postulate.

To deny the atomic limit in undulatory, prescribe to confuse all kind of “waves”, each individual wave (quantic wave) with any collective of waves, and these collectives with gravity waves or elastic waves in a collectivity of matter, then mathematically unify all these kinds: the individual waves (quantic ones), the collective, and the collectivity waves. The Born-Heisenberg copenhaguism is founded on this trick, and it is so for ninety years. A hegemonic swindle.

Tip : an individual wave has only one emitter and only one absorber.

## Tactical postulate.

In each controversy, agglomerate the formalism and the Göttingen-København semantics, and teach they may not be separated. Then you deny any meaning to the word “semantics”.

## Göttingen postulate.

Only “states” exist, forget the transitions. Because the durations and the properties of the transitions, such as the length of coherence of photons, proved by interferences for Thomas Young, are not compatible with the corpuscularist postulate.

## Six transactionist postulates.

The absorbers exist. No corpuscle exist.

### De Broglie-Dirac postulate.

The intrinsic frequencies  $mc^2/h$  and  $2mc^2/h$  play each one their role. The broglian  $mc^2/h$  for each interference of a quanton with itself. The Dirac-Schrödinger  $2mc^2/h$  for all electromagnetic interactions, for instance the Compton scattering.

### Fermat-Fresnel Postulate.

All the real journeys come in phase, eventually at an integer number of periods.

Hence the geometry of the Fermat’s spindle between emitter and absorber.

### Every photon has an absorber.

A photon is a successful transaction between three partners: an emitter, an absorber, and the space or optical devices between them. This transaction transfers by electromagnetic means, a quantum of looping  $h$ , and an energy-momentum that depends on the respective frames of the emitter and the absorber.

We distinguish the macro-time of macro-systems such as the laboratory, from the micro-times where dwell all the gropings of broglie waves from which emerge the successful transactions. The macro-time is a statistical emergence, and it flows the same way as the entropy, a statistical emergence too. It has no causal properties in microphysics.

### No, it is impossible to isolate a quantic system.

No, it is impossible to isolate a quantic system as we isolate its equations at the blackboard: No mean exist to shield the Dirac-de-Broglie noise. It is impossible to predict which transaction will emerge, nor when.

Hiding so much experimental facts to the students is wrong, and it violates the scientific deontology.

Sure, so much experimental results embarrass the copenhagenists:

All the spectral absorptions, all the interferences as the anti-reflective coatings, quarter-wave plates, interferential colors, Goos-Hänchen effect in plane polarization, Imbert-Fedorov in circular polarization, all proofs of the non-negligible width of each photon. A very long list!

They hid from you the transparency effect Ramsauer-Townsend, which is strictly undulatory. But if the electron is strictly undulatory, how will they continue to impress the naive public, by their mystic “*wave-corpucle dualism*” ? Many other everyday experimental results are incompatible with the corpuscular ideation of the Göttingen-Københavnists.

## Original results.

Owing to the geometry of the Fermat’s spindle, we have dimensioned the pretended experiment which is pretended to validate the contrafactuality of Elitzur and Vaidman. It has been proved that the “*quaking mirror*” that could reveal the corpucle-photon, will be anyway too heavy by seven or eight magnitudes.

<http://www.agoravox.fr/culture-loisirs/culture/article/contrafactualite-penrose-elitzur-155565>

In other domains of astronomy, even interferential, and of physical optics, and fine polarization effects, we have not brought new results, only proved that our theoretical results are fully coherent with all known experimental facts – including those which are carefully hidden to the students in quantics. For instance in radiocrystallography, or in physical methods of analytical chemistry, or in solid state physics.

Complete book for popularization, in french :

[http://jacques.lavau.deonto-ethique.eu/Physique/Microphysique\\_contee\\_juillet2017.pdf](http://jacques.lavau.deonto-ethique.eu/Physique/Microphysique_contee_juillet2017.pdf)

where the complete external references are developped.

## Aknowledgements

Aknowledgements to William Beaty, the webmaster of amasci.com (amateur science). Only by amasci.com, I was warned to be anteriorized by C. F. Bohren in 1983, H. Paul and R. Fischer in 1983, Giles Henderson, Robert C. Rittenhouse, John C. Wright and Jon L. Holmes in 1979, and by John G. Cramer in 1986.

Afshar experiment:

<http://www.irims.org/quant-ph/030503/>

<http://www.irims.org/quant-ph/030503/Afshar%20Complementarity%20All.PDF>