

## Basics of this theory

There are three basic elements for this new theory

- First: A postulate - The laws of physics are the same in all frames of reference.
  - a) identical in all inertial frames of reference (identical with Einstein's Special Relativity)
  - b) identical in all accelerated frames
  - c) identical in rotating framesbecause time is absolute and identical in all frames of reference and the different frames are connected through the Galilei transformations
- Second: An electromagnetic wave (it carries energy) moves with the speed of light relative to its origin
- Third: Static/quasistatic electric and magnetic fields do not contain energy (they are no waves) and their forces react immediately  
(in today's physics quasistatic electric and magnetic fields have the absolute (limited) propagation speed of  $c$ , so their forces act retarded)

Further on all other basic physics concepts are valid like

- causality is given for all physical effects  
(not the Einstein causality that does not allow particle or wave speeds larger than  $c$ )
- conservation of energy
- conservation of electric charges

Some consequences are

- Newton's third law is valid without any limitation  
(3rd Newton: An action force causes a reaction force of the same strength in opposite direction), the reaction force to an action force is immediate, there is no time retardation for forces  
(in today's physics quasistatic electric and magnetic forces react with time retardation)
- everything can fly at any velocity (no limit at the speed of light)
- light propagates at the speed of light relative to its origin (in compliance with the emission theory)
- forces in the electric near-fields, magnetic near-fields act immediately  
(there is no propagation speed)
- gravity behaves in its characteristic similar to electric forces between positive and negative charges that attract each other, but the field itself does not contain energy. So we conclude that gravity fields also do not contain energy itself, and the gravity forces act immediately.
- there is no mass-increase, no length contraction, and no time dilation no matter at which velocity
- electric near-fields, magnetic near-fields (the fields itself) do not contain energy, the energy is stored within the conductors in form of the distribution of the electric charges  
(the field interpretation is only a helpful model that allows to calculate some effects in a simplified manner, though the field is physically not existing, as empty space cannot store energy).
- Electromagnetic waves versus quasistatic electric forces and magnetic forces are complete different physical effects. A receiving antenna generates a voltage depending on all three effects. It can be shown that an antenna has different sensitivities for each effect.
- Forces between two charges are not only described by Coulomb's Law. A second force has to be added, that is dependent on the relative speed to the neighbouring charges. This dynamic force is acting on both charges perpendicular to their actual relative velocity and dependent on their increase/decrease of their distance to each other.
- With this the new theory is compatible with the behavior of electrons rotating around a charged nucleus without radiating electromagnetic waves.

## Content

- 1. Particle acceleration in electric field
- 2. Acceleration of charged particles in alternating fields
- 3. Bremsstrahlung vs Synchrotron radiation
- 4. Interference of electrons with light
- 5. Unifying Lorentz force and Magnetism - extended Coulomb force
- 6. The New Theory compared with present Physics
- 7. Comparison of electron deflection

- **8. Information Transfer**
- **How did this Theory evolve**

## **Disclaimer**

Attention: Everything written on this website is "WorkInProgress".

This means, that you will encounter incomplete sections, erroneous details, maybe even false claims or wrong interpretations.

Anyway we are convinced that the overall concept and ideas of this new theory describe the world better and more accurate than any other theory that we know of. This results in way too many consequences, meaning that there are thousands of experiments that should be revisited, that lots of new experiments should be implemented and lots of new and old mathematical formulas need to be corrected to complete this new theory of our universe .. which we (Ottmar & Jan) simply can't do on our own. That's why we decided to publish our findings in this early stage (we are thinking for ~ 15 years about this until now).

We encourage everyone to give us feedback via email, please send your comments to: *theory @ kechel.de* or simply use our contact form.

Please don't expect us to answer your mails, but be sure that we'll incorporate any correct feedback (no matter if it supports or refutes this theory!) into this website.

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