

Remarks on Strong Interactions

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ABSTRACT: Referring to the conception of the loops it has been explained why the strong interactions aren't described by an easy mathematical equation in contradiction to the electromagnetic interactions or gravitation. One has postulated for the identical physical nature of bosons and fermions basing on the Dirac equation.

The fact that in the case of the strong interactions there aren't any analogical equations to the Maxwell equations (electromagnetism) or to the Einstein equation (gravitation), is implicated by that the color may be described by three space loops in the planes: xy , yz , xz ; but 8 gluons must use the time dimension in the 8-dimensional space-time corresponding with them [1].

Next, the space-loops are more mathematically complicated because the time flows in each reference system [2] in the contradiction to the space axes, towards to which it can rest in a certain reference system.

Besides, 7-dimensional loops in 8-dimensional space-time can be analogue to 2-dimensional spaces in 3-dimensional space.

The waves connected with the electrons and photons (the X-rays too) deflect this same way.

It is consistent with the fact that both bosons and fermions are described by the same Dirac-Einstein equation.

References:

- [1] Z. Morawski, "Loops"; "Number of Dimensions of the Universe", this website
- [2] Z. Morawski, "Attempt at Nature of Time", this website
- [3] Z. Morawski, "Unification of Interactions and Quantisation of Gravitation", this website