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Towards a basic gauging of space orientation - the sole seed of local field interactions

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ABSTRACT

Basic input(s):

a) "On the apparent likeness of local gauges and their underlying physics" in the file: naturesway2007.pdf on my Home Page: URL: http://www.mink.itp.unibe.ch .

Basic ingredients: "gauging vector- and axialvector currents" or "gauging charges" as apparently like but n o t intrinsically related to gauging orientation through the metric tensor or equivalently the vierbein or vielbein fields.

- b) The aim of the proposed contribution is, to illustrate and clarify the conditions , which justify the meaning "apparent" as opposed to "intrinsic" or "essential" , in particular when "gauging orientation".
- c) It is outlined, that the specification of the gauge fields , as described in a) and b) are necessary on the way to establish
- a 'renormalizible' local quantum field theory , including gravity.

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