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Jens

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Geometric Critique

of Pure

Mathematical Reasoning

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General Disclaimer and Purpose:

C Jens Erfurt Andresen, M.Sc. Physics, UCPH, Denmark

This book is written for discussion of the foundation of science for physics It is presumed and strongly recommended that the reader is a graduated physicist.

There can be passages in this book where new theories, views and postulates are promoted. The reader shall be prepared to take their own ethical judgments on each issue.

The endeavour has been not to shorten deductive calculations to make the concept ideas precise, so the brilliant reader must bear with reading all these details.

Please let me know of printing errors, mistakes, and disagreements with what is Nature. Any suggestions for improvement of text formulations and explanations are welcome.

Anyway, I wish you an enjoyable reading and in places an in-depth detailed study.

In best regards

Jens Erfurt Andresen

The author of this book is a graduate physicist M.Sc. (Cand. Scient.) 1983 from NBI-UCPH. Niels Bohr Institute (NBI), University of Copenhagen (UCPH)

> e-mail: jens.erfurt.andresen@tetraon.dk www.tetraon.dk

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A comment on the spherical display figure on the front cover

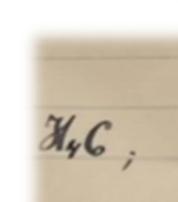
The geometric prerequisite for space is: Two points form a line. Three points form a plane triangle circumscribed circular S^1 -symmetry with a center point. Four points form a solid structure in space:

The Platonic *tetrahedron* ideal, circumscribed by spherical surface S^2 -symmetry, supported by a unit radial basis { $\mathbf{u}_D, \mathbf{u}_A, \mathbf{u}_B, \mathbf{u}_C$ }, called a *tetraon*, regular when

 $\mathbf{u}_{\mathrm{D}} + \mathbf{u}_{\mathrm{A}} + \mathbf{u}_{\mathrm{B}} + \mathbf{u}_{\mathrm{C}} = \mathbf{0}.$ Active *outwards directions* make a S^3 -symmetry of information development as a process for any locality center.

Essential the fourth direction e.g., u_D is linear dependent on the three others.

Hundred years ago, we have an attempt by Niels Bohr to draw an intuition of the spatial structure symmetries of a Methane molecule.



For the last 100 years, we have seen the symmetry of a four-valent carbon atom as the foundation of all living spatial structures. Here it is essential that it is circumscribable by a S^2 sphere that has an inside and an outside.

As we know every living cell is dependent on a cellular membrane forming a closed cave with an internal active communication *outward* and give a reaction to the *inwards* information from the external.

This *outward* principle we presume valid for all active particle entities in the physical space of Nature.

The analyse of this book treats the question:

Does S^3 -symmetry of space have *four* grades *of directions* with orientations, and dimensions with sixteen 2^4 linear independencies including real scalar *quantities*?

 ${\hbox{$\textcircled C$}}$ Jens Erfurt Andresen, M.Sc. Physics, UCPH, Denmark

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