www.akvypress.com · 142 Kennard Ave · Toronto, Ontario, M3H 4M5, Canada
Email: akvypress@yahoo.ca

Toronto, Canada, For Immediate Release

Contact: Tel. 416-631-7293

Email: akvypress@yahoo.ca

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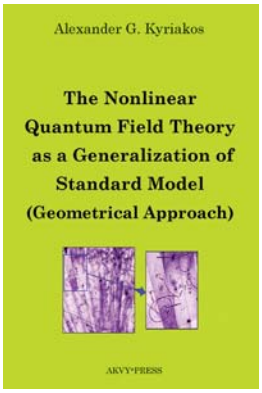
# GENERALIZATION OF THEORY OF ELEMENTARY PARTICLES SOLVES HIGGS BOSON PROBLEM




The book "The Nonlinear Quantum Field Theory as a Generalization of Standard Model (Geometrical Approach)" by Alexander G. Kyriakos, published by AKVY Press in 2009, ISBN 9780980966749, introduces a nonlinear generalization of the Standard Model theory. This model is a contemporary theory of elementary particles and their interactions and transformations. The Standard Model is a very successful theory. The majority of results based on this model are well-supported by experiments. However, as physicists think, the Standard Model is not the final theory of elementary particles.

The latest experimental results show that a very important part of the Standard Model theory, known as Higgs's mechanism, which ensures the appearance of masses of particles, may remain unconfirmed. In particular, the Higgs boson, whose existence is necessary for this mechanism, was not discovered in almost the whole possible range of energies. The theory presented in this book proposes a solution to this difficult situation.

The book introduces a nonlinear generalization of the Standard Model, which preserves all of its achievements and overcomes all of its difficulties. On the basis of the proposed theory, it is possible to assert that the world of elementary particles is, in general, nonlinear. However, it can be shown that a special type of nonlinearity makes it possible to describe elementary particles by linear methods in the majority of practical cases; in particular, for experimental verification of results. At the same time, the majority of difficulties of the Standard Model theory are related to

nonlinearity, and these problems can be solved if nonlinearity is taken into account. This is what the theory proposed by the author of this book does, so that the appearance of particles' masses can be described by a mechanism similar to the Higgs mechanism, but the existence of Higgs bosons is not required in this case.

***About the Author***. Alexander G. Kyriakos, Ph.D, is a physicist whose research interests for several decades reside in the area of physics of elementary particles. The author of several books on this subject, he presents a brief version of his fundamental research to the English speaking audience for the first time, right at the moment when physicist begin to look for alternatives to the presently dominating approaches that did not produce expected results.

***Ordering***. Starting from the publication date, the book will be available from all major resellers in Europe and America, as well as directly from the publisher AKVY PRESS (www.akvypress.com).

***Requesting a review copy***. Interested media representatives can request a free review copy at akvypress@yahoo.ca beginning September 30, 2009. In your request, please specify where your review is expected to appear.

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AKVY Press publishes scientific and educational books. It publishes titles in pure and applied mathematics, financial mathematics, in particular investment performance measurement and risk valuation; mathematical modeling of biological and other natural phenomena, natural philosophy, and physics of elementary particles.

***Contact.*** Valentina, PR. Tel. 1-416-631-7293, akvypress@yahoo.ca