

# Regular and Irregular Isotheory of Lie Santilli

Rudolf Grigard\*

*\*Editorial Office, Generalized Lie Theory and Applications, Belgium*

## Introduction

One of us (Santilli) has directed methodical investigations on the abovementioned recorded inheritances over various many years and papers cited in that proposing that the demonstrated limits start from the math hidden quantum mechanics, rather than on its essential aphorisms. All the more especially, the restrictions started from the nearby differential person of twentieth century arithmetic on the grounds that such a analytics is exclusively relevant to dynamical frameworks of point-like particles moving in vacuum under Hamiltonian communications, which frameworks are known as outside dynamical frameworks [1]. His Lie hypothesis is exclusively appropriate to dynamical frameworks comprising of point-like particles moving in vacuum under direct and Hamiltonian associations (frameworks known as outside dynamical frameworks).

One of the creators has proposed a maxim protecting expanding of the Lie hypothesis, known as the Lie-Santilli isothory, that is relevant to dynamical; frameworks of expanded, non-round and deformable particles moving inside an actual medium under Hamiltonian as well as non-straight and non-Hamiltonian cooperation (more extensive frameworks known as inside dynamical frameworks). In this paper, we concentrate on clearly interestingly normal and sporadic iso-representations of Lie-Santilli isoalgebras happening when the design amounts are constants or capacities individually. Various applications to molecule and atomic physical science are demonstrated [2]. It ought to be demonstrated that this the definition of the Lie-Santilli isothory over traditional numeric fields, despite the fact that apparently satisfactory on numerical grounds, conveys precisely the same-irregularities of the definition of the ordinary Lie hypothesis over isofields, the two definitions suggesting the infringement of causality in actual applications. Paper is explicitly dedicated to the investigation of isorepresentations under the presumption of information on the Lie-Santilli isothory, as well as of the isotopies of the different parts of twentieth century applied arithmetic, by and large known as isomathematics, which is essential for the predictable definition and elaboration of isothories [3]. Santilli's essential inspiration for the isotopes of twentieth century science was its application to the isotopies of the different branches of Lie's hypothesis that were first introduced. on ordinary spaces over customary field and expounded by means of the ordinary differential analytics. Said isotopic hypothesis was then reformulated isospaces over isofield and explained by means of the isofunctional investigation furthermore the isodifferential math, in which structure it is these days called the Lie-Santilli isothory.

The principle components of the Lie-santilli isothory can be illustrated as follows. Let  $E=E(L)$  be the general encompassing affiliated variable based math of a N-layered Lie variable based math  $L$  with requested (Hermitean) generators Under specific integrability and perfection conditions hereon accepted, Lie algebras  $L$  can be "exponentiated" to their relating Lie change bunches  $G$  as well as, the other way around, Lie change bunches  $G$  concede comparing Lie algebras  $L$  [4]. These essential properties are protected under isotopies despite the fact that widened to the most broad conceivable, aphorism protecting nonlinear, nonlocal and non-canonical change gatherings Common guidelines for Construction of Regular Isorepresentations [5]. Normal isorepresentation of Lie-Santilli isoalgebras  $L^\wedge$  over an isofield of trademark zero can be built through non-unitary changes of the customary portrayals of the traditional Lie variable based math  $L$ . the evidently first investigation of the ordinary and unpredictable isorepresentations of the Lie-Santilli isoalgebras.

The meaning of the isorepresentation is laid out by their applications, for example, the recreation of precise equality in atomic physical science under electromagnetic collaborations the first known mathematically accurate and time invariant portrayal of the irregular attractive snapshot of the deuteron as well as of stable cores at huge; the first known careful and time invariant portrayal of the mathematics and physics .The order of said isorepresentation can be finished by order of all conceivable non-unitary changes twist of stable cores and different applications .It is trusted that this study will animate extra exploration by autonomous partners in this significant new field of math and physical science.

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\*Corresponding Author: Rudolf Grigard, Editorial Office, Generalized Lie Theory and Applications, Belgium; E-mail: glta@engjournals.org

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