

Randomness in Quantum Mechanics: Philosophy, Physics and Technology

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This progress report covers recent developments in the area of quantum randomness, which is an extraordinarily interdisciplinary area that belongs not only to physics, but also to philosophy, mathematics, computer science, and technology. For this reason the article contains three parts that will be essentially devoted to different aspects of quantum randomness, and even directed, although not restricted, to various audiences: a philosophical part, a physical part, and a technological part. For these reasons the article is written on an elementary level, combining very elementary and non-technical descriptions with a concise review of more advanced results. In this way readers of various provenances will be able to gain while reading the article.

CONTENTS

I. Introduction	1
II. Quantum Randomness and Philosophy	3
A. Epistemic and ontic character of probability	3
B. Randomness in classical physics	4
C. Randomness in quantum physics	6
1. Contextuality and randomness	6
2. Nonlocality and randomness	7
III. Quantum Randomness and Physics	8
A. Quantum measurements	9
1. Postulates of QM	9
2. Measurement theory	9
B. Nonlocality	11
1. Two-party nonlocality	11
2. Multi-party nonlocality and device independent approach	12
C. Randomness: information theoretic approach	13
D. Nonlocality, random number generation and certification	14
E. Nonlocality and randomness expansion	15
F. Nonlocality and randomness amplification	16
IV. Quantum randomness and technology	17
V. Quantum Randomness and Future	20
VI. Acknowledgements	20
References	20

I. INTRODUCTION

Randomness is a very important concept finding many applications in modern science and technologies. At the same time it is also quite controversial, and may have different

meanings depending on the field of science it concerns. In this short introduction to our report we explain, in a very general manner, why randomness plays so important role in various branches of science and technology. In particular we elaborate the concept of “*apparent randomness*”, to contrast it with what we understand under the name “*intrinsic randomness*”.

Apparent randomness as an element of more efficient description of nature is used practically in all sciences, and in physics in particular (cf. (Halmos, 2013; Khinchin, 2014; Penrose, 1979; Schrödinger, 1989; Tolman, 2010)). This kind of randomness expresses our lack of full knowledge of the considered system. Paradigmatic example concerns classical mechanics of many-body systems that are simply too complex to be considered with all details. The complexity of the dynamics of systems consisting of many interacting constituents makes predictions, even assuming perfect knowledge of initial conditions, practically impossible. This fact motivates the development of statistical mechanics and thermodynamics. The descriptions that employ probability distributions and statistical ensembles, or even more reduced thermodynamic description, are more adequate and useful. Another paradigmatic example concerns chaotic systems. In deterministic chaos theory (cf. (Bricmont, 1995; Gleick, 2008; Ivancevic and Ivancevic, 2008)) even for the small systems involving few degrees of freedom, the immanent lack of precision in our knowledge of initial conditions leads to the impossibility of making long time predictions. This is due to an exponential separation of trajectories, when small differences at start lead to large end-effects. Also here, intrinsic ergodicity allows one to use the tools of statistical ensembles.

In quantum mechanics *apparent (a.k.a. epistemic) random-*

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 - The Rise of Digital Reading Physics Philosophy And Quantum Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Philosophy And Quantum Technology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Philosophy And Quantum Technology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Philosophy And Quantum Technology
 - Personalized Recommendations
 - Physics Philosophy And Quantum Technology User Reviews and Ratings
 - Physics Philosophy And Quantum Technology and Bestseller Lists

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 - Benefits of a Digital Library
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Philosophy And Quantum Technology
 - Setting Reading Goals Physics Philosophy And Quantum Technology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Philosophy And Quantum Technology
 - Fact-Checking eBook Content of Physics Philosophy And Quantum Technology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
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14. Embracing eBook Trends

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