

Contents

Fundamentals

Interpretations of QM with Applications for Formal Epistemology	3
<i>Bas C. van Fraassen</i>	
Contextuality-by-Default 2.0: Systems with Binary Random Variables	16
<i>Ehtibar N. Dzhafarov and Janne V. Kujala</i>	
Probabilistic Nature of a Field with Time as a Dynamical Variable	33
<i>Hou Y. Yau</i>	

Quantum Cognition

Testing Boundaries of Applicability of Quantum Probabilistic Formalism to Modeling of Cognition: Metaphors of Two and Three Slit Experiments . . .	49
<i>Irina Basieva and Andrei Khrennikov</i>	
Contextuality in the Integrated Information Theory	57
<i>J. Acacio de Barros, Carlos Montemayor, and Leonardo P.G. De Assis</i>	
Is Stress Quantum-Like?	71
<i>J. Acacio de Barros, Leonardo Guimarães De Assis, and Petr Bob</i>	
Quantum Cognition Beyond Hilbert Space: Fundamentals and Applications	81
<i>Diederik Aerts, Lyneth Beltran, Massimiliano Sassoli de Bianchi, Sandro Sozzo, and Tomas Veloz</i>	
Toward a Gauge Theory of Musical Forces	99
<i>Peter beim Graben and Reinhard Blutner</i>	

Language and Applications

Quantum Bootstrap Aggregation	115
<i>David Windridge and Rajagopal Nagarajan</i>	
Categorical Compositional Cognition	122
<i>Yaared Al-Mehairi, Bob Coecke, and Martha Lewis</i>	
Graded Vector Representations of Immunoglobulins Produced in Response to West Nile Virus	135
<i>Trevor Cohen, Dominic Widdows, Jason A. Vander Heiden, Namita T. Gupta, and Steven H. Kleinstein</i>	

Contextuality and Foundations of Probability

Testing Contextuality in Cyclic Psychophysical Systems of High Ranks	151
<i>Ru Zhang and Ehtibar N. Dzhafarov</i>	
Probabilistic Programs: Contextuality and Relational Database Theory	163
<i>P.D. Bruza and S. Abramsky</i>	
On Peculiar Relations Between Measurement Incompatibility and Contextuality	175
<i>Dagomir Kaszlikowski and Paweł Kurzyński</i>	
Exploration of Contextuality in a Psychophysical Double-Detection Experiment.	182
<i>Victor H. Cervantes and Ehtibar N. Dzhafarov</i>	
On the Interpretation of Probabilities in Generalized Probabilistic Models . . .	194
<i>Federico Holik, Sebastian Fortin, Gustavo Bosyk, and Angelo Plastino</i>	
An Introduction to Symmetric Inflated Probabilities.	206
<i>Mark Burgin</i>	

Quantum-Like Measurements

A First Attempt at Ordinal Projective Measurement.	227
<i>Jacob Denolf</i>	
Eigenlogic: A Quantum View for Multiple-Valued and Fuzzy Systems	239
<i>François Dubois and Zeno Toffano</i>	
A New Perspective on Observables in the Category of Relations: A Spectral Presheaf for Relations	252
<i>Kevin Dunne</i>	
Language Geometry Using Random Indexing	265
<i>Aditya Joshi, Johan T. Halseth, and Pentti Kanerva</i>	
Author Index	275

Quantum Interaction

10th International Conference, QI 2016, San Francisco,

CA, USA, July 20-22, 2016, Revised Selected Papers

de Barros, J.A.; Coecke, B.; Pothos, E. (Eds.)

2017, XII, 275 p. 27 illus., Softcover

ISBN: 978-3-319-52288-3