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PHYSICS, PHILOSOPHY AND QUANTUM TECHNOLOGY DAVID DEUTSCH Oxford University, Oxford, United Kingdom E-mail: daviddeutsch@qubitorg Quantum theory and the classical theory of computation were perfected in the 1930s, and fifty years later they were unified to form the quantum theory of computation Here I want to tell you about a speculation

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in this journal (JQIS: Vol 1, No 2), which was characterized as the metaphysical and linguistic turn of quantum me-chanics This turn from physics to language does not only realize the remarkable extension of quantum mechanics but also yield the quantum mechanical world view (ie, the philosophy of quantum mechanics) And thus, the turn urges us

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JAMES T. CUSHING AT University of Iowa; 1963; Ph.D. (Physics)

Professor of Physics, University of Notre Dame, 1978-present Professor of Philosophy, University of Notre Dame, 1990-1993 Research Areas History and Philosophy of Twentieth Century Physics Foundational Problems in Quantum Theory Honors and Grants Visiting Professor of Physics, 1969-70, Hampton Institute under auspices of Woodrow Wilson Foundation