

NON-UNITARY QUANTUM THEORY
(MATHEMATICAL FOUNDATIONS). 2

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Extended Fock representations of Heisenberg algebras interlaced with their non-Fock representations are built. The main result of Part 2 is the proof of the existence of additional variables in the non-unitary scheme (see Part 1), which are Lorentzian scalars. A new physical entity, called physical vacuum or ether, is described by them [1]. It is shown that the fermion-antifermion symmetry is invalid on the space of additional variables. Other principal consequences of the theory are discussed.