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Particles; 2.3.6.2. Role of time t ; 2.3.6.3. Non-local effects; 2.3.6.4. Conclusion; Remark; 2.3.7. Operator Equations; 2.3.7.1. Determination of (r, t) and (p, E) ; 2.3.7.2. Remarks; 2.3.7.3. Space-specific formulation; 2.3.7.4. Discussion concerning equations (2.35) and (2.50); Comparison with Schrodinger's equation; (r, E) -space representation; 2.3.7.5. Other representations 2.3.7.6. Superposition principle The general case; Stationary systems; Conclusion; 2.3.8. Processes; 2.3.8.1. General remarks; 2.3.8.2. Description of properties and appearances; 2.3.8.3. The meaning of the wave function; 2.3.8.4. Properties of probability distributions; 2.3.8.5. Does god play dice?; 2.3.9. Time; 2.3.9.1. Reference time and selection processes; Principal remarks; Introduction of the reference system; 2.3.9.2. Structure of reference time; 2.3.9.3. Selections; Convolution integral; Two types of time variables; Rectangular form for the reference time distribution Effect of motion 2.3.9.4. Information inside, information outside; 2.3.9.5. Reality outside; 2.3.9.6. Constancy phenomena; 2.3.9.7. Schrodinger's equation and its limitations; Derivation of Schrodinger's equation from the principles of projection theory; Space-time information; Information in connection with usual quantum theory; Summary; 2.3.9.8. Real situation; General remarks; Aspects; 2.3.9.9. - Dependent systems; 2.3.9.10. Some additional remarks; 2.3.9.11. Uncertainty relation for time and energy; 2.3.9.12. Time within special theory of relativity; Block universe; Feynman diagrams

2.4. Summary

Sommario/riassunto

Space and time are probably the most important elements in physics. Within the memory of man, all essential things are represented within the frame of space-time pictures. This is obviously the most basic information. What can we say about space and time? It is normally assumed that the space is a container filled with matter and that the time is just that which we measure with our clocks. However, there are some reasons to take another standpoint and to consider this container-conception as unrealistic, as prejudice so to say. Already the philosopher Immanuel Kant pointed on this serious prob

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