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John: "The principle of complementarity forces us to renounce even mathematical models! Thus in Bohr's point of view, the wave function is in no sense a conceptual model of an individual system, since it is not in a precise (one-to-one) correspondence with the behavior of this system, but only in a statistical correspondence."

"... complementarity states that no single model is possible which could provide a precise and rational analysis of the connections between these phenomena".  
(Obviously wrong since wave picture a counter-example!)

Baier [Physica 188] "In other words, our epistemology is determined to a large extent by the existing theory. It is therefore not wise to specify the possible forms of future theories in terms of purely epistemological limitations deduced from existing theories."

Our Conclusion of Bohr: If regard  $\Psi$  as real field, might just as well omit the particle in it, since it by itself, is sufficient to account for all experience.

as real field  
is not in 1st momentum theory  
as real field (of force).

Another  
start answer  
models

## Boltzmann Theory (pg 10)

"...complementarity in the sense that any given application of classical concepts precludes the simultaneous use of other classical concepts which in a different connection are equally necessary for the elucidation of the phenomena."