

ABSTRACT

Quantum mechanics is reformulated in ~~a~~ a way which eliminates the present special treatment of observation of a system by an external observer. The new formulation does not deny or contradict the observer. A method is developed for treating and interpreting the quantum description of ~~an~~ isolated systems ~~in~~ within which observation processes can occur, ~~without giving~~ ~~these processes any preferred position~~. Observers are represented within the theory by physical systems subject at all times to the same laws as all other physical systems. The ~~standard~~ experience

of these observers is shown to be
in accord with the conventional
probability interpretation theory ~~of~~
of external observation.

Process 1, however, is actually
on a completely different footing, since it
is an interpretive law
which deals with external observations. What
is needed is an interpretation ^{scheme} ~~systems~~
which can be applied to closed systems
within which observation processes occur.

The ~~soloed~~ interaction with ~~the surrounding~~
the surrounding systems are deduced. ~~When~~
These changes are ~~black~~ interpreted as the experience
of the observer. ~~develops the~~ It is then
~~development of the~~
shown that the experience of an observer will
be in accord with the statistical predictions of
the conventional formulation.

alternate

When these changes are interpreted
as the experience of the observer it is
a consequence that this experience will
be in accord with the statistical predictions
for external observations
of the conventional formulation.

ABSTRACT

(II)

The preceding paper is discussed with the
~~further clarification and~~ aims of assessing position - ~~relation~~

to assess the relation of the mathematical
model presented thus to the present conceptual
scheme of physics.