

The Copenhagen Interpretation

- o two realms: micro macro
 quantum classical
 unspeakable speakable
- o positivism
- o impossibility of realist theories
- o completeness of ψ in the micro realm
- o language of measurement
- o narratives, not serious
- o complementarity

Reactions to the measurement problem

- nobody can solve Schr. eq. for 10^{23}
- systems are never isolated
- \nexists wf of the universe
- questionable if $\Psi(t_1) = \psi \otimes \phi$
- derivation of collapse rule
- collapse of prob.
- decoherence

Transactional Interpretation

J. G. Cramer 1986

$\psi(x)$ or $|\psi\rangle$

$\psi^*(x)$ or $\langle\psi|$