The Wave-Function as a Field in 3D-space

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with Davide Romano

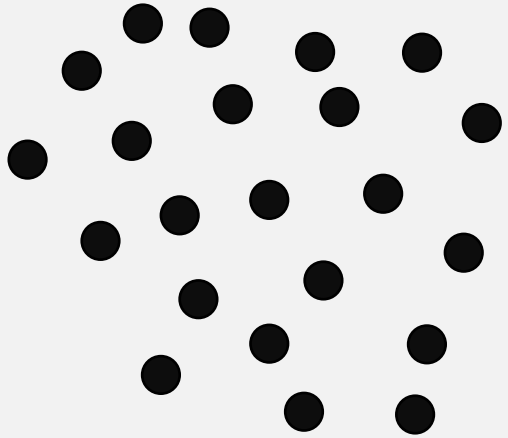
de Broglie–Bohm theory

no measurement problem.

no observer.

clear and simple ontology.

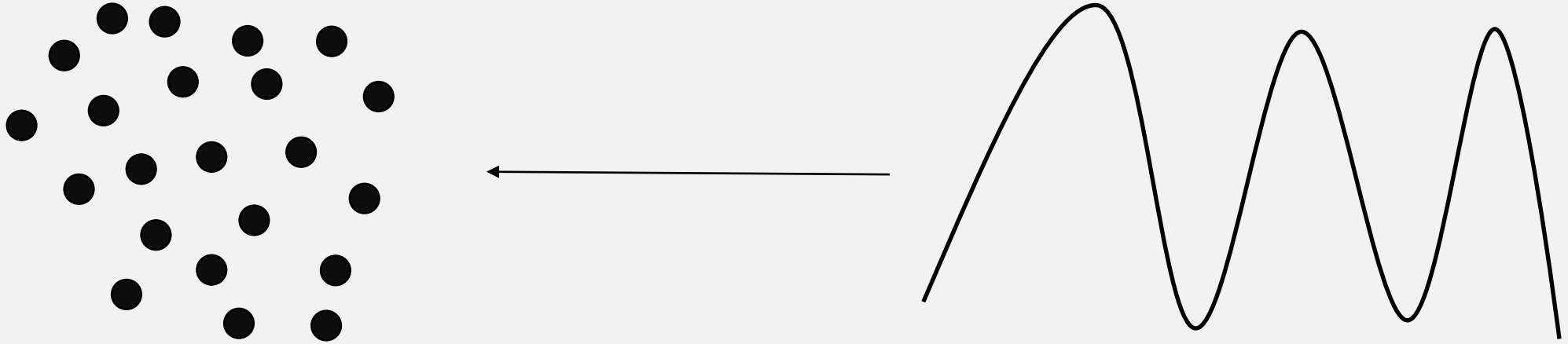
Born’s rule as a theorem.



Ψ

$$\Psi_t(x_1, \ldots, x_N)$$

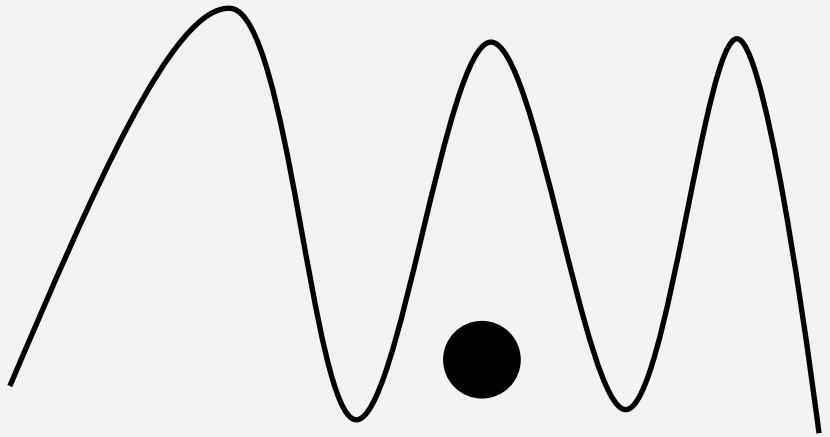
communication?



3D space

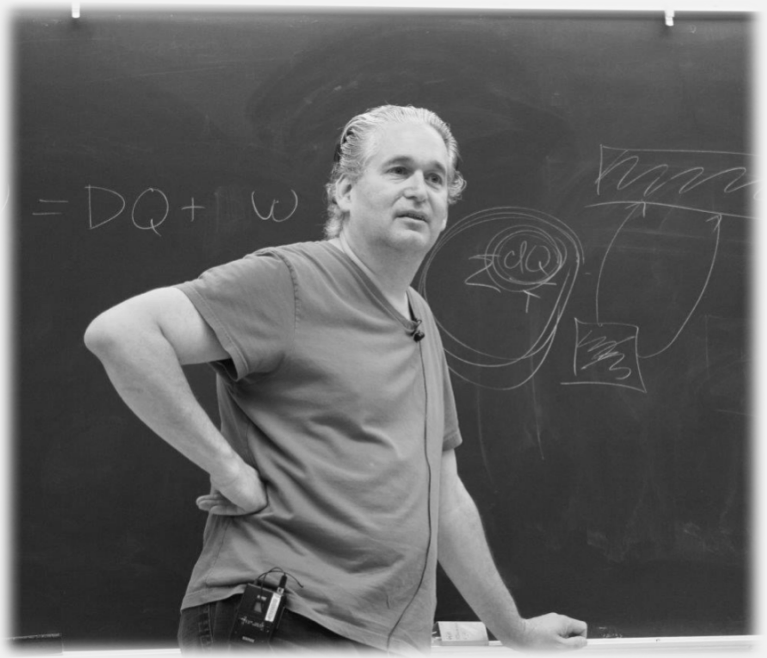
3N-D space

locality



configuration space

3N



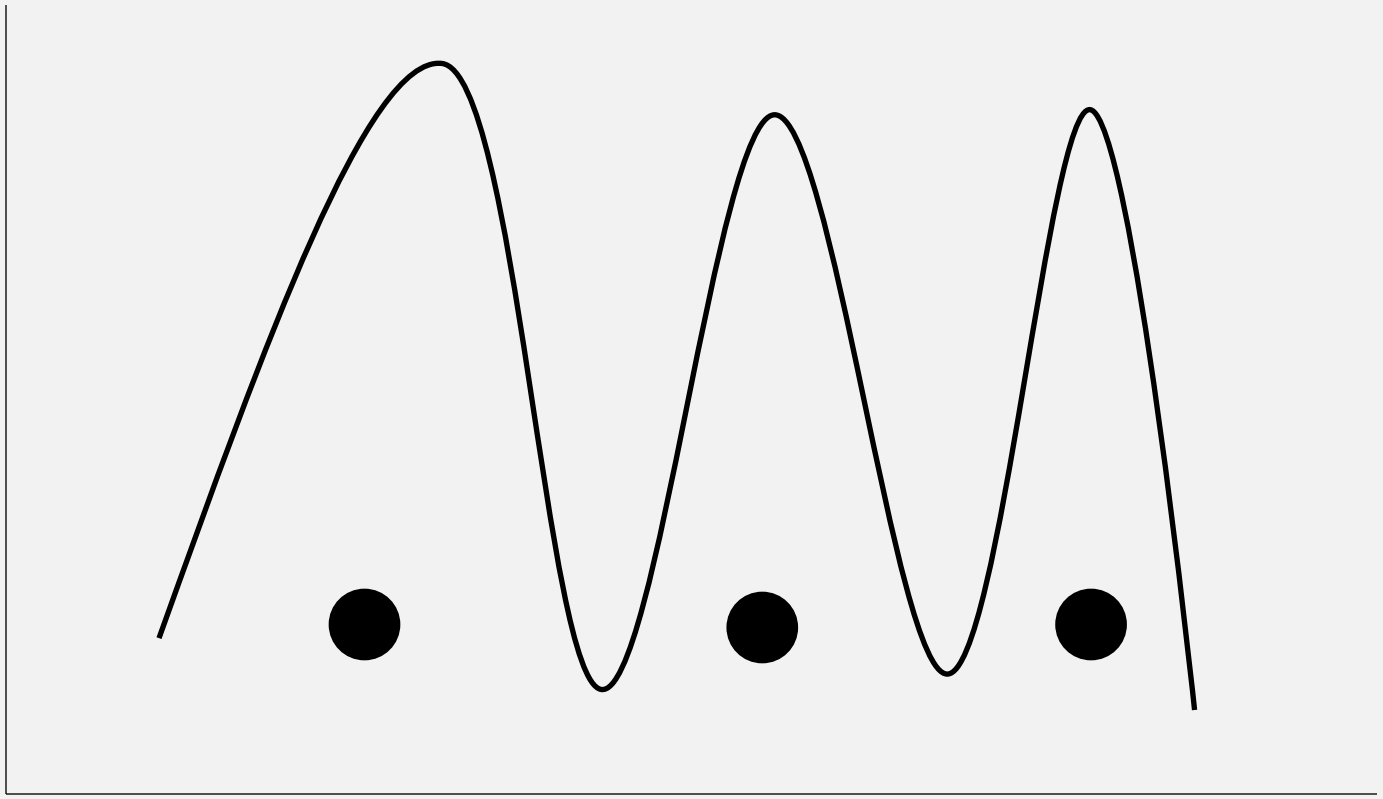
perception of 3D world?

multi-field

$$\phi(x)$$

$$\phi(x_1, \ldots, x_N)$$

non-locality



Lessons

mathematics vs physics.

locality vs non-locality.

Ψ is a multi-field in 3D space.