

Axioms of causal mechanics. These axioms were formulated by N.A.Kozyrev as following:

- (1) Time posses a specific property, that distinguishes causes from effects and that can be called *course of time*. This property defines the distinction between the past and future.
- (2) Cause and effect are always separated in space. Thus, there is as much small, but not equal zero distance r between them.
- (3) Cause and effect are always separated in time. Thus, there is as much small, but not equal zero difference t between them.

Using definition of *causality* γ of observables X and Y all three Kozyrev's axioms is formulated as one:

$$\gamma < 1 \Rightarrow t_Y > t_X, \vec{r}_Y \neq \vec{r}_X$$

$$\gamma > 1 \Rightarrow t_Y < t_X, \vec{r}_Y \neq \vec{r}_X$$

$$\gamma \rightarrow 1 \Rightarrow t_Y \rightarrow t_X, \vec{r}_Y \rightarrow \vec{r}_X.$$

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