

IS PHYSICS TIMELESS ?

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The reduction of elements required for the mathematical description of nature has been a lasting motivation to evolve theory in physics. Here, we argue that time and temperature originate from a stationary global entangled state of a system and its environment. Time evolution emerges in the relation of system and environment when separating them. Imaginary relational time gives rise to temperature and the canonical ensemble for the system, if the global state is maximally entangled.

FRIDAY,
6.12.2024

2:00 PM

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