

عنوان مقاله:

On-shell Equation of the Lorentzian Classicalized Holographic Tensor Network

محل انتشار:

مجله کاربردهای هولوگرافی در فیزیک, دوره 3, شماره 3 (سال: 1402)

تعداد صفحات اصل مقاله: 8

نویسنده:

Eiji Konishi - Graduate School of Human and Environmental Studies, Kyoto University

خلاصه مقاله:

In the Lorentzian classicalized holographic tensor network (cHTN), we derive its relativistic on-shell equation from its Lorentzian action in the presence of a relativistic massive particle in the bulk spacetime: -\sigma \hbar \theta=Mc^Y.Here, \sigma is the von Neumann entropy of the cHTN per site in nats, \theta is the real-proper-time expansion of the cHTN defined along the world line of the particle, and M is the non-zero mass of the particle. We explain the physical properties, interpretation, and consequences of this equation. Specifically, from this equation we derive the properties of the on-shell proper acceleration of another massive particle in the bulk spacetime as those of .the gravitational acceleration induced by the original massive particle

کلمات کلیدی: Holographic Principle, Quantum Entanglement, Holographic Tensor Network, Classicalization

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1774425

