

Abstract Submitted
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Planck Time Interval which a Photon Processes a Package of Information for Travelling a Planck Length as the Unit of Information in Planck Units HASSAN GHOLIBEIGIAN¹, No Company Provided — In the author’s vision, there is a dimension of information in addition of space-time’s dimensions in the universe which all particles and space-time permanently are floating in it and getting packages of new information for processing. Communication of information with fundamental particles (strings) as a “fundamental symmetry” in the nature has a vital role in leading all phenomena. So, a photon needs to get a package of complete information including law about its quantum state for processing and selecting its next step. Its next step which is moving a Planck length, takes a Planck time. A package of information including the new quantum state of the photon should always be available for it during a Planck time. My proposed formula for calculation of the number of packages of information (I) is: $I = t_P^{-1} \cdot \tau$ in which t_P is Planck time and τ is lifetime of fundamental particle (string) per second. So a photon processes 1.8×10^{43} packages of information for finding its path in a second. The processed information is carried by the photon to store in history of the universe. Therefore, I propose unit of one “Package of information” for each Planck time to the APS as a new unit in Planck units.

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