

# Introducing the sub-photon as a basis of the structure of photons

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Considering that the smallest, fastest, and lightest object in the universe is photon and the universe mass is about  $10^{53}$  kg, if we consider the photon as the basis of the Big Bang, the volume and density are far different from the information that obtained for the Big Bang before. In other words, the photon is not the desired particle that could have formed the Big Bang sphere. Therefore, we define a special particle called "sub-photon" with dimensions of one billionth of a photon (in terms of radius value). In this paper we will show that this fundamental particle could be the basis of the structure of photons.

