

Tachyons-Photons interaction and the origin of Cosmological Redshift

Luigi Maxmilian Caligiuri

Takaaki Musha

Foundation of Physics Research Center – FoPRC, Italy

max.caligiuri@gmail.com

Abstract. We consider the dynamics of the interaction between photons and tachyons arising from fluctuations of quantum vacuum showing it can be consider to give an alternative explanation of cosmological red-shift. We also discuss the consequences of such model on the currently accepted picture of Big Bang and Inflation Cosmology.