

A Model of a Non-expanding Universe

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Abstract : We propose a non-expanding model of the universe based on the non-changing fine-structure constant and Einstein's space-time relativity theory. This model consistently explains the Redshift, the 'expanding' and the age of the universe without introducing the singularity and inflationary issues that occurred in the 'Big Bang' model. It also offers an interpretation of the unexpected 'accelerated expanding' universe and the origin of the mystery of 'Dark matter'. It predicts that the universe began with a 'cold and peaceful' rather than 'extremely hot' stage which is used to explain consistently the microwave background radiation. It predicts mathematically that galaxies could end in blackholes because blackholes should have the same environmental conditions as those at the beginning of the universe in this model, paving the way to offer a model of the cyclic universes without violating the first law of thermodynamics.

Keywords : big bang, accelerated expanding universe, dark matters, blackholes, microwave background radiation, universe modelling

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