SCIREA Journal of Astronomy

http://www.scirea.org/journal/Astronomy

September 25, 2018

Volume 2, Issue 2, August 2018

SOME CHARACTERISTICS OF COSMIC MICROWAVE BACKROUND RADIATION

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Abstract

Data gathered by the Planck i.e. maps of temperature Cosmic Microwave Background (CMB) have been used for analysis of a number of counts of the CMB as a function of their temperature by *IDL* software. Recently I presented a histogram made by *Fv* software (Marek 2018). Power-law slope for reasonable range of data is alpha=1.81.

1. RESULTS

Fig. 1. shows an approximate power law distribution for the temperature fluctuations. Possible model describing this results is that energy input is an expansion of the universe, criticality point is (380 000 years after Big Bang) sufficient temperature of the universe, that produces CMB. Output is the radiation seen at CMB maps (with fluctuations).

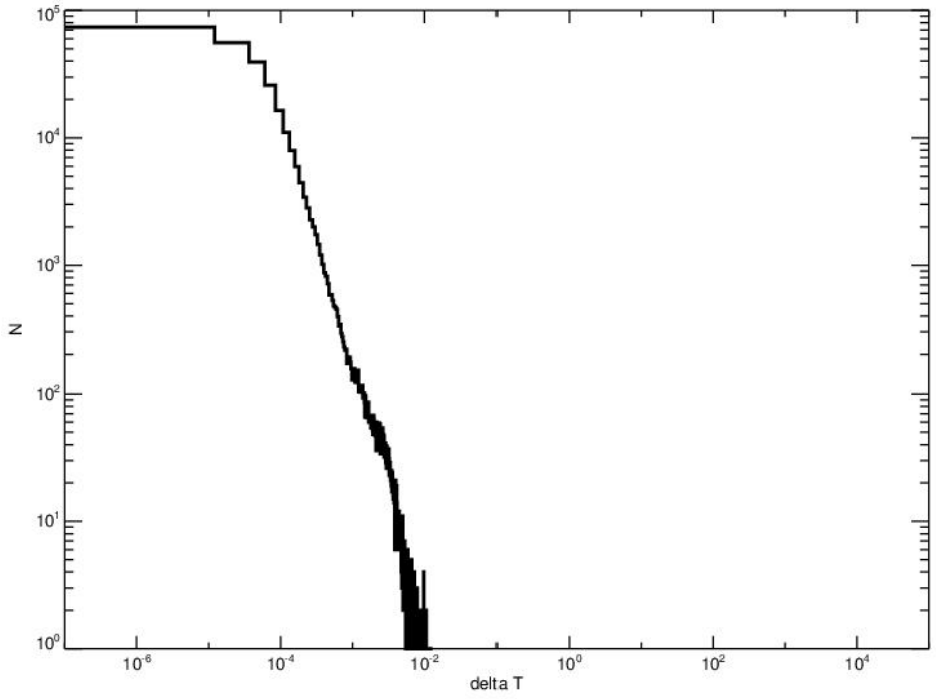

Fig. 1. An approximate power law distribution for the temperature fluctuations (an example).

REFERENCES

[1] Michał Marek, IS THE UNIVERSE A SELF-ORGANIZED CRITICALITY SYSTEM?, SCIREA Journal of Astronomy. Vol. 2 , No. 1 , 2018 , pp. 1 - 4 .