

Professor Longin Gładyszewski  
Institute of Physics  
Maria Curie Skłodowska University, Lublin  
POLAND

### Review

on the work by Krzysztof Zawisza entitled “The Large scale structure of the Universe - necessity or chance”.

The work by Krzysztof Zawisza presented for evaluation includes 430 pages, 432 figures; references include 162 items and many quoted works in the form of footnotes. The work has three parts: the first part includes an extensive description of observation facts, the second part is a mathematical description of presented ideas from a theoretical point of view, the third one presents mathematical description and interpretation as well as the Author's ideas – Krzysztof Zawisza makes an attempt to answer the question: is the Universe accidental and chaotic or regular and well ordered.

The work is devoted to the successful, as it seems, justification of the thesis, that in a wide range of phenomena, until now considered to be accidental, characteristic, statistically distinguishable regularities are observed. This wide range of described phenomena includes structures of living organisms, structures occurring in solids and the observed, large scale structure of the Universe. This is a powerful and important argument affecting significantly our view of the Universe.

Description of the phenomena the Author is interested in is comprehensive, extensively documented and correctly analyzed both mathematically and statistically.

He documents his observations, extensively quoting many papers basing on numerous data, obtained for example from laboratories and world observatories using the internet.

The work by Krzysztof Zawisza presented for reviewing is very interesting. It includes daring, but fully documented, innovative hypotheses of the Author, which can arouse interest and simultaneous fruitful scientific discussion. In my opinion it deserves to be published.

Lublin, 10.VI.2005.

000001353  
Uniwersytet Marii Curie-Skłodowskiej  
Instytut Fizyki  
Zakład Fizyki Ogólnej i Dydaktyki Fizyki  
pl. Marii Curie-Skłodowskiej 1  
20-031 Lublin

Kierownik Zakładu  
  
Dr hab. Longin Gładyszewski  
prof. nadzw. UMCS