PLANETARY DISTANCE LAWS ON THE SLAVIC SOUTH. PART II: RECENT DEVELOPMENT

A review of contributions on the planetary distance laws written in the South Slavic countries in the past 30 years or so is given. In the 1955-1985 period almost no interest existed for the topics in the region despite of a great worldwide interest (especially in the late 1960's and early 1970's); a great interest appears only in 1992. Since that time, the contributions to the topics published in the region make up a considerable part of the total world literature. Most contributions may be divided into 3 kinds according to the approach: empirical regularities, cosmogonical theories and quantization of orbits. The laws are usually expressed as one of the following 5 formulae: traditional and purely exponential Titius-Bode law, parabolic law analogous to Bohr's model of atom, linear law and the law based on zeros of Bessel functions. Many combinations of these 3 approaches and 5 formulae have been investigated in the contributions that have originated in the region. Very few of the contributions have been published in internationally recognized literature.

Key words: Solar System, planets, satellites, Titius-Bode law