

## SRIYANTRA AND ITS MATHEMATICAL PROPERTIES

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The *Sriyantra* (the Great or Supreme *yantra*) is the ancient geometrical portrayal and it belongs to the class of objects (*yantras*) which are used for meditation in various schools of *tantrism*. The process of precise reproduction of the *Sriyantra* central seal (14-angled polygon composed by intersection of nine triangles) is a highly difficult problem which is above the capacity of hand-drawing because of requirement of precise superposition of numerous points of intersection. On the other hand, the task of general analysis of the *Sriyantra* seal is linked with such volume of calculations which is very far from the power of modern computers.

The paper includes data of structural and analytical investigation of the *Sriyantra* seal, the classification of available specimens and analysis of its frequency and time spreading. On this data is based the theory about the existence of ancient spherical origin of the *Sriyantra* seal. In this case, the more simple and more contemporary specimens may have been produced by a century-old accumulation of errors in successive reproduction of this prototype. In the conclusion it is emphasized that a deeper study of this complicated and relatively unknown phenomenon requires co-operation of specialists from different fields of knowledge.

### INTRODUCTION

From the ancient world we can find out examples of some cultural achievements, which, at first sight, may appear to have used very high mathematical knowledge much above the capacities of the ancient culture. The investigations of such phenomena may lead us to discover the cultural and historical alternatives of the mathematical knowledge and help us to understand more deeply the significance of the world's scientific and technological progress. One of such unique objects is the *Sriyantra* (the Great or Supreme *yantra*) of Indian *Tantric Tradition*. The mathematical properties of this *yantra* is very complicated, and its interpretation is linked with very deep cosmogonic and psychophysiological concepts.

The *Sriyantra* belongs to the class of objects (*yantras*) which are used for meditation in various schools of *tantrism*. One of the earliest known specimens is the portrait of the *Sriyantra* in the religious institution *Sriguri Matha* established by the famous philosopher *Sankara* in eighth century A.D. The *Sriyantra* had also been mentioned in the Buddhist inscription of the *Srivijaya* school in South Sumatra, which is dated seventh century A.D.<sup>2</sup> Therefore, the *Sriyantra* already has covered a long path of confirmation as an important object for rituals. Thus, the hymn from *Atharva Veda*<sup>3</sup> (c. 12th century B.C.) is dedicated to the *Sriyantra*-like figure composed of nine triangles.

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**S**ri Yantra was found to be used in and by **Buddhist** religion, **Vedic** period, **Pharaohs** of Egypt and has been proved from various sources, which are collected from from the past.

**T**his ancient Geometry [Yantra] proves to be connected with the **Government Ruling** authority from the past till today. Information about this Ancient geometry will be continued in the next issue.

**"ANCIENT GEOMETRY IS AN OCEAN AND GEOMETRY IS A PART OF IT"**

**-S.J. Malleeswari**