

# **Methodology of the archaeo-astronomical investigations. Analysis of sites and objects on the territory of Bulgaria**

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## **Методология на архео-астрономическите изследвания. Анализ на обекти и находки на територията на България**

Николай В. Дерменджиев. Анотация на дисертация

The dissertation begins with revealing of three basic methods for archaeo-astronomical investigations. The method of the "horizontal astronomy" is based on restoring the conditions of rising and setting of the celestial bodies. The method of the light projections is based on restoration of the lighting along the axis into dark monuments or premises. The method of the symbolical multitudes is based on mathematical operations that aim discovering of ancient calendar-astronomical cycles. The author gives generalizations of the last two methods.

A series of sites and monuments on the territory of Bulgaria are reanalyzed with the help of the considered methods. The most interesting cases are: the temple of the subsoil waters near the village of Garlo, the monument "Halkata" near the village of Glushnik, several Thracian tombs, the ram's head from Bosnek, the monuments in the Breznik area, Sliven area, Pernik area, the ritual tables from the Orsoya LBA cemetery, the chalcolithic altars from Ovcharovo, etc. The methods are applied also in important cases abroad - the Stonehenge monument, megalithic monuments of different character and images carved on stone.

Some problems about the eventual Thracian calendar, as well as some terms of the antique calendar tradition are considered. Some main questions of the development of archaeo-astronomy as science are discussed too.

Key words: archaeo-astronomy