

## **POSSIBLE ASTRONOMICAL PURPOSE OF THE CIRCULAR FORMATION AT THE ARCHAEOLOGICAL SITE POJATE-POJILA IN THE VILLAGE OF BELICA**

The paper explores the possibility that a circular formation at the site of Pojate - Pojila in the village of Belica at Jagodina, was used for the purpose of the observation of the apparent motion of the heavenly bodies, particularly the sun. Archaeological investigation of this site is at the very beginning. Fully has been explored only the pit in which has been found a multitude of figurines made of stone, bones and pottery from the early Neolithic period, and which, at the University of Mainz, has been dated to 7800 years ago. The position of the hole is defined precisely in space by geodetic surveying. The site has been geomagnetically investigated, and this has shown the existence of a circular formation, with a diameter of about 80 m. This paper considers the spatial relationship of the position of the pit and the circular formation from the geomagnetic record, especially the direction the center of the circle - the pit. This direction is astronomically important, as the direction of the sunset on the winter solstice. The aim of the paper is to initiate Archaeoastronomic analysis of this site, which will continue, together with the further archaeological exploration.

**Key words:** Archaeoastronomy, Archaeology, Early Neolithic, Belica