



## **Paleointensity determinations of some early Paleozoic granite rocks from Sinai peninsula, Egypt**

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New paleointensity determinations of the past geomagnetic field in Egypt are presented in this paper. We have collected oriented granite samples from 11 sites in Saint Chatrina area in Sinai Peninsula and subjected to rock magnetic and ore microscopic investigations. The rock magnetic properties such as Curie temperatures and hysteresis parameters as well as microscopic observations point to magnetite as the main carrier of the remanent magnetization. According to the rockmagnetic properties, suitable samples were selected for the application of the Thellier-Thellier paleointensity method. A total of 55 granite specimens from 11 locations of Early Paleozoic age (590 M.Y) were analyzed and yielded 34 successful paleointensity determinations improving the paleointensity data base of Early Paleozoic. As no paleointensity results were yet obtained from these rocks, a preliminary survey has been conducted in Sinai to test the suitability of Granite for paleointensity experiments.