



## **A new method for estimation of the stability station of rock massive by their outworking in deep mines**

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The rock massive is a many ranged hierarchic structure. The research of the state dynamics, it's structure and events of self organization of the massive can be achieved by geophysical methods which are based on that model. The use of the many leveled induction electromagnetic method with a controlled source and elaborated processing technologies allowed us to reveal the disintegration zones, which indicate the rock stability. We had elaborated a new integral parameter-interval distribution of the intensity of the disintegration zones, which allow us to provide a detailed classification of the massive stability and to achieve numerical criterions and characterize the stability of the massif using the synergetic theory approaches. These results had been proved on the deep mines of bauxite and magnetite. The maximum depth was 800m. Our prognosis of the place of instability and energy of the forecasted dynamic event was right absolutely.