Название: Temperature field in the vacuum chamber of a ballistic gravimeter

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Краткий осмотр (реферат): A mathematical model for the temperature field of a ballistic gravimeter is developed based on a thermal conductivity boundary value problem to be solved by the finite element method. Genetic algorithms and the Nelder-Mead method are used to develop a way for synthesizing the parameters of electric heaters to reduce the temperature gradients inside the vacuum chamber of a ballistic gravimeter and to improve its technical parameters.