## How to calculate the roots of an arbitrary polinomial :

Hadamard and Vandermonde determinants and<br>Bernoulli - Euler - Lagrange - Aitken type numerical method for roots of polynomials

A.V. Lebedev, Yu. V. Trubnikov, M. M. Chernyavsky (speaker A.V. Lebedev)


#### Abstract

We develop Euler - Lagrange method and calculate all the roots of an arbitrary complex polynomial $P(z)$ on the base of calculation (similar to the Bernoulli - Aitken methods) of the limits of ratios of Hadamard determinants built by means of coefficients of expansions into Taylor and Laurent series of the function $\frac{P^{\prime}(z)}{P(z)}$.


