

**«Priority Dispute» between Cauchy and Maclaurin or the History of a Mistake**

*Abstract.* Both students and specialists have to master a large volume of mathematical information mainly through books and manuals, which generally concerns the accepted definitions and proved theorems. However, it is rather difficult to find out texts tracing the genesis of a definite mathematical statement or the life of a certain mathematician. The paper attempts to achieve the balance by describing the invention process of a mathematical theorem. Apart from the activity-production dualism, the paper illustrates the fact that any mathematical statement development demands quite complicated and even contradictive illogical approaches, and only thereafter it gets a rigorous didactic proof (inductive-deductive dualism). The author also elicits the interrelation between an individual and society, the mutual influence of a mathematician and his colleagues - both the close and remote ones in distance and time. Therefore, the analysis of such process as a theorem invention can reveal the fundamental didactic characteristics inherent to mathematics, as well as any other scientific discipline.

The paper is addressed to teachers, postgraduates and students specializing in natural sciences and technical disciplines related to mathematics.

*Keywords:* mathematics, history of mathematics, theorem, theorem invention.

**References**

1. Arnol'd V. I. What is mathematics? M.: MCNMO, 2008.
2. Arnol'd V. I. Do we need in the school of mathematics? M.: MCNMO, 2004.
3. Kalinin S. I. Mean values of the exponential type. Inequality of Cauchy and UIC Fana. Kirov: VGGU, 2002.
4. Nejman Dzh. Fon. Mathematician // Priroda. 1983. № 2. S. 88–95.
5. Fihtengol'c G. M. Course of differential and integral calculus. T. I. M.: Nauka, 1966.
6. Hardi G. G., Littl'vud Dzh. E., Polia G. Inequality.. M.: Gos. izd vo inostranoj literatury, 1948.
7. Jastrebov A. V. Multiplicative inequalities Ki Fan and гомотетии the real line // Matemat. vestn. ped. i un-tov Volgo-Vjatskogo regiona. Vyp. 14: Period. mezhvuz. sb. nauch.-metod. rabot. Kirov: VjatGGU, 2012. S. 203–221.
8. Jastrebov A. V. The explicit expression of the curve Ki Fana // Mathematics and physics, Economics and technology and the improvement of their teaching: materialy Mezhdunar. konf. «Chtenija Ushinskogo» fiziko-matematicheskogo fakul'teta. Jaroslavl': JaGPU, 2012.
9. Jastrebov A. V. Analytical proof of theorem Maclorena on clarifications of the Cauchy inequality // Jaroslavskij pedagogicheskij vestnik. 2012. № 4. Serija «Estestvennye nauki».