




№ 156
Алматы қаласы

№ _____
город Алматы

Ethical approval

1.	Full name of PhD student	Nauryz Targyn Atanbekuly
2.	Specialty of PhD Program	6D070500 - Mathematical and Computer Modeling
3.	Time period of study at PhD Program	2018-2021
4.	Theme of the thesis, date of approval	The method of heat polynomials and special functions for the problem of heat equation in regions with free boundaries and their application, 30.10.2018
5.	Information about scientific supervisor (-s) (Name, title, degree, work position and citizenship)	Local scientific supervisor: S.N. Kharin, academician of NAS RK, Dr. Sc.(Phys.-Math.), professor, Kazakhstan, Foreign scientific supervisor: B. Miedzinski, Dr. Sc., professor at Wroclaw University of Science and Technology, Poland
6.	Objects of study	One-dimensional heat polynomials and associated functions. • Heat polynomials for solving spherical and cylindrical heat conduction problems. • Special functions for solving heat process problems in electrical contact processes. • Similarity solution of heat problems with temperature dependence coefficients.
7.	Planning, sampling and conducting of study	Violations are not revealed
8.	Dissemination of results or practical implementation	Violations are not revealed
9.	Protection of rights, safety and welfare of research objects	Low-voltage electrical devices, electrical contact materials (silver, gold, platinum, tungsten) – alive subjects did not participate
10	Code of approval	IRB – A535
11	Date of study approval	24.11.2022

Chair of LEC _____ 

G. Ussatayeva

Secretary of LEC _____ 

M. Shaukharova