LOMONOSOV MOSCOW STATE UNIVERSITY

FACULTY OF PHYSICS

WORKING PLAN

for the 2021/2022 academic year for students of the 2nd year of the Master's program of the Faculty of Physics (Master's degree, full-time study)

student of the program " MM_PHYSICS "(direction 03.04.02 "Physics", MAG. prog. "**Physics of Neutrinos and Fundamental Interactions of Elementary Particles**")

DISCIPLINES	Full academic load per	Semester # 3 (18 weeks)										Semester # 4 (12 weeks)									
		Academ. load per semeste	self-study	Classroom sessions						Reporting		Academ. load per semester	self-study	Аудиторных						Reporting	
				in total	per week									in total	per week						
					in total	lectures	seminar	atory	ediat	test	exam				in total	ecture	emina	atory	ediat	test	exam
Disciplines of master's programs of choice**:** Group theory methods in particle physics, I.P.Volobuev; Effective models in quantum field theory, V.Ch.Zhukovsky	72	72	36	36	2	1	1	0	0		exam										
Disciplines of master's programs of choice**:** Neutrino scattering in matter, K.A.Kouzakov; Advanced methods in neutrino data analysis, A.V.Lokhov	72	72	36	36	2	1	1	0	0	test											
Disciplines of master's programs of choice: Advanced quantum physics: The theory of open sistems (Part 1), K.L.Stankevich; Modern gravity (Part 2), D.V.Galtsov (semester # 3); Advanced quantum physics: The theory of open sistems (Part 2), K.L.Stankevich; Coulomb fundamental interaction of particles and its role in quantum physics, Yu.V.Popov (semester # 4)	144	72	36	36	2	1	1	0	0	test		72	36	36	3	1	2	0	0	test	
Disciplines of master's program**:** Neutrino astrophysics, A.V.Grigoriev; Modern methods of neutrino detection, B.K.Lubsandorzhiev	72											72	36	36	3	1	2	2	0	test	
Дисциплины магистерских программ: Experimental neutrino physics, Yu.G.Kudenko	108	108	72	36	2	1	1	0	0		exam										
Disciplines of master's program: Electromagnetic neutrino interactions in external fields and dense matter, A.I.Studenikin	216	108	72	36	2	1	1	0	0		exam	108	72	36	3	1	2	0	0		exam
Disciplines of master's program: High-energy astrophysics, K.A.Postnov (semester # 3); Collider physics, M.N.Dubinin (semester # 4)	216	108	72	36	2	1	1	0	0		exam	108	72	36	3	1	2	0	0		exam
Externship																					
Research work	396											396	396	until 04.05, 12 weeks						test	
Research seminar	360	360	360	until 29.12, 17 weeks						test											
Interdisciplinary exam in the direction of " Physics"	72	72	36	36	2	0	2	0	0	test											
Preparation and defense of the final qualifying work in the direction of " Physics"	108											108									exam
Philosophical problems of natural science	216											216									exam
Total (general part of the plan)	108	108	72	36	2	2	0	0	0		exam										
	2160	***1080***	***792***	***288***	***16***	***8***	***8***	***0***	***0***	***4***	***5***	***1080***	***612***	***144***	***12***	***4***	***8***	***2***	***0***	***3***	***4***

Dean of the Faculty of Physics

Professor

N. N. Sysoev