

**Plan**  
**research work of the department of physics at the 2022-2023 academic year**

№	Job Title	Timing fulfillment	Performers
1	1.1. Completion of research work: Leading topics: 1.2. Spatial structure and conformational characteristics of alkaloid derivatives 1.3. Computer simulation of electro-optical measurements of pre-breakdown electric fields in water 1.4. Waste-free technologies in the production of building products 1.5. Energy transformations in crystals and complex organic molecules	01.09.2022 ye. - 30.06.2023 ye.	Turdybekov D.M. Yasinsky V.B.  Smirnov Yu.M.  Mazhenov N.A.
2	Publications of research results: 2.1 Prepare 7 articles, including 5 in journals included in the Thomson Reuters and Scopus databases. 2.2 Take part in conferences: international - 7 reports; republican - 9 reports.		teaching staff
3	Inventive activity: 3.1 Applying for a patent 3.2 Applying for a SIS	01.09.2022 ye. - 30.06.2023 ye.	Turdybekov D.M., teaching staff
4	Research work with students and undergraduates: according to the NIRSM plan	01.09.2022 ye. - 30.06.2023 ye.	Kusenova A.S.
5	The international cooperation: 5.1. Continue cooperation with the Faculty of Energy (FEN) of the Novosibirsk State Technical University (NSTU) and the Department of Physics of KarTU. Carry out joint research in the field of studying pre-breakdown processes in liquids by electro-optical methods and computer simulation methods. 5.2. Продолжить сотрудничество с факультетом Энергетики (ФЭН) Новосибирского Государственного Технического Университета (НГТУ) и кафедрой физики КарТУ. Проводить совместные исследования в области изучения предпробивных процессов в жидкости электрооптическими методами и методами компьютерного моделирования. 5.3. Establish cooperation with the University of Nimes, France (Rue du Docteur Georges Salan, 30021 Nîmes Cedex 01). Invite Professor P.	01.09.2022 ye. - 30.06.2023 ye.	Mazhenov N.A.

	Saint-Gregoire to KSTU for lectures, seminars and research assistance.		
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