# C:\Users\Muzaffar\Desktop\photo_2020-10-22_10-23-49.jpg**FIZIKA-MATEMATIKA FAKULTETI**

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| **MUTAXASISLIGI** | * Kondensirlangan muhitlar fizikasi, Qattiq jism fizikasi, Materialshunoslik. | |
| **O‘QITADIGAN FANLARI** | * Umumiy fizika; Termodinamika va statistik fizika; Yadro tibbiyoti; Tibbiyot texnikasining fizikaviy asoslari; Tezlatkichlarning tibbiyotda qo’llanilishi; PET, MRT va KT tomografiyalarining fizik asoslari; Nanofizika. | |
| **TADQIQOT ISHI** | * Rentgen nurlar fizikasi; Rentgen kompyuter tomografiyasi (KT); Tasvirlar rekonstruksiyasi; Materiallar xarakteristikasi; data analiz; foton-sanovchi detektorlar; Tomografiyaning havfsizlik, tibbiyot va sanoatda qo’llanilishi. | |
| **ILMIY TADQIQOTLARI** | * Sabirov, K., Jumanazarov, D., Yusupov, J., & Matrasulov, D. (2018). Bogoliubov de gennes equation on metric graphs. *Physics Letters A*, 382(39), 2856–2860. doi: <https://doi.org/10.1016/j.physleta.2018.06.016>. * Jumanazarov, D., Koo, J., Busi, M., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2020). System-independent material classification through X-ray attenuation decomposition from spectral X-ray CT. *NDT and E International*, 116(July), 102336. doi: 10.1016/j.ndteint.2020.102336. * Jumanazarov, D., Koo, J.-K., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2021). The significance of the spectral correction of photon counting detector response in material classification from spectral x-ray CT. *Quantum Optics and Photon Counting 2021, SPIE*, 11771(April), 60–76. doi:10.1117/12.2589290. * Jumanazarov, D., Koo, J., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2022). Significance of the spectral correction of photon counting detector response in material classification from spectral x-ray CT. *Journal of Medical Imaging*, 9(3), 1–24. doi: 10.1117/1.JMI.9.3.034504. * Jumanazarov, D., Koo, J., Kehres, J., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2022).Material classification from sparse spectral X-ray CT using vectorial total variation based on L infinity norm. *Materials Characterization*, 187, 111864. doi: 10.1016/j.matchar.2022.111864. * Jumanazarov, D., Alimova, A., Abdikarimov, A., Koo, J., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2023). Material classification using basis material decomposition from spectral x-ray ct. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 1056, 168637. doi:10.1016/j.nima.2023.168637. | |