

7th INTERNATIONAL CONFERENCE “MTP-2021”:

MODERN TRENDS IN PHYSICS

DECEMBER 15-17, 2021

BAKU STATE UNIVERSITY | BAKU, AZERBAIJAN

December 15, Wednesday

Opening Ceremony

Baku State University, Main Hall

[Link to session](#)

09:00 - 10:00	Registration
10:00 - 11:00	Opening Ceremony Group Photo

Plenary session

Chairs: Mais Suleymanov (Azerbaijan), Amdulla Mehrabov (Turkey)

Main Hall

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11:00 - 11:45	Spectroscopic ellipsometry and free carrier plasma edge: topological insulators case Mammadov Nazim <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
11:45 - 12:30	Magnetohydrodynamic seismology of the corona of the Sun Nakariakov Valery <i>University of Warwick, United Kingdom / Special Astrophysical Observatory of Russian Academy of Sciences, Russia</i>
12:30 - 14:00	Lunch

Keynote speakers' session

Chair: Sajida Abdulvahabova (Azerbaijan), Iman Askerzade (Turkey)

Main Hall

[Link to session](#)

14:00 - 14:25	Gluons, light and heavy quarks in the instanton liquid model of QCD vacuum (online) Mirzayusif Musaxanov <i>National University of Uzbekistan, Uzbekistan</i>
14:25 - 14:50	Modeling and simulation of structure-property relations in Fe-based nanoalloys via computational materials science Amdulla Mehrabov <i>Middle East Technical University, Turkey</i>

14:50 - 15:15	Why quantum field theory in early Universe is far from being well understood? Emil Akhmedov <i>Moscow Institute of Physics and Technology, Russia</i>
15:15 - 15:40	Developments and challenges in solar cell technology: materials and processes (online) Syed Ismat Shah <i>University of Delaware, USA</i>
15:40 - 16:00	Coffee Break / Poster session I

Parallel sessions

Session 1-1: Theoretical and High Energy Physics / Space Sciences and Astrophysics

Chair: Nazim Huseynov (Azerbaijan), Muhammad Ajaz (Pakistan)

Main Hall

[Link to session](#)

16:00 - 16:15	Observation of different scenarios in different temperatures in small and large collision systems at high energies Muhammad Ajaz Abdul Wali Khan University, Pakistan
16:15 - 16:30	Search for associated production of a Higgs boson and a single top quark using p-p collisions at 13 TeV with the ATLAS detector in the $H \rightarrow b\bar{b}$ final state Huseynov Nazim, Igor Boyko, Oksana Koval <i>Joint Institute for Nuclear Research, Russia</i>
16:30 - 16:45	Study of the associated production of Higgs boson with vector boson Ahmadov Faig <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan / Joint Institute for Nuclear Research, Russia</i>
16:45 - 17:00	To observe the production of ϕ mesons at SPS energies Uzma Tabassum, Mujtaba Ali <i>COMSATS University, Pakistan</i>
17:00 - 17:15	Charmed Λ_c^+ baryon production in pp and p-Pb collisions at 5.02 TeV Yasir Ali, Hifza Zeenat <i>COMSATS University, Pakistan</i>
17:15 - 17:30	PYTHIA8 and HIJING2 predictions for the Xe - Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV (online) Zain Ul Abidin, Uzma Tabassum <i>COMSATS University, Pakistan</i>
17:30 - 17:45	Properties of two-barrier Schottky diodes

	Mamedov Rasim, Aslanova Amina <i>Baku State University, Azerbaijan</i>
17:45 - 18:00	Pauli form factor $N+\gamma^* \rightarrow R$ (1710) transition in the hard-wall AdS/QCD model Taghiyeva Shahnaz <i>Baku State University, Azerbaijan</i>
18:00 - 18:15	Search for the experimental signal of the “basic” object of Universe - oscillating strings at the LHC Suleymanov Mais <i>Baku State University, Azerbaijan</i>
18:15 - 18:30	Prompt photons production in proton-proton collision at high energies Alizada Mohsun ¹ , Ahmadov Azad ^{2,3} , Arbuzov Andrej ² ¹ <i>Baku State University, Azerbaijan</i> ² <i>Joint Institute for Nuclear Research, Russia</i> ³ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
18:30 - 18:45	Electric quadrupole transitions in neutron cluster transfer reactions Abdulahabova Sajida ¹ , Afandiyeva İrada ² ¹ <i>Baku State University, Azerbaijan</i> ² <i>Azerbaijan State University of Oil and Industry, Azerbaijan</i>
18:45 - 19:00	Application of the method of non-classical approach to certain problems of the theory of anisotropic space plasma in fluid description Nurmammadov Mahammad, Dzhaliilov Namig <i>Shamakhy Astrophysical Observatory named after N. Tusi, Azerbaijan National Academy of Sciences, Azerbaijan</i>

Parallel sessions

Session 1-2: Materials Science and Engineering

Chair: Salmanov Vaqif (Azerbaijan), Jishiashvili Alexander (Georgia)

Hall 1

[Link to session](#)

16:00 - 16:15	Effective “green” synthesis of stable silver and magnetite nanoparticles using of <i>Artemisia annua</i> “hairy” root extracts (online) Kobylinska Natalia ¹ , Klymchuk Dmitro ² , Matvieieva Nadiaa ³ ¹ <i>A.V. Dumansky Institute of Colloid Chemistry and Water Chemistry, National Academy of Sciences of Ukraine, Ukraine</i> ² <i>M.G. Kholodny Institute of Botany, National Academy of Sciences of Ukraine, Ukraine</i> ³ <i>Institute of Cell Biology and Genetic Engineering, National Academy of Sciences of Ukraine, Ukraine</i>
16:15 - 16:30	Gaseous phase synthesis of boron nitride nanosheets for medical and technical use

	<p>Dvali Nugzar, Chirakadze Archil, Jishiashvili David, Jishiashvili Alexander, Gorgadze Kakha <i>Georgian Technical University, Georgia</i></p>
16:30 - 16:45	<p>Degradation of the magnetocaloric effect in cyclic magnetic fields near the magnetostructural phase transition (online)</p> <p>Gamzatov Adler¹, Aliev Ahmed¹, Qiao Kaiming², Zhou H.B.², Hu Feng-xia² ¹ <i>Amirkhanov Institute of Physics, DFRC, Russia</i> ² <i>Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, P. R. China</i></p>
16:45 - 17:00	<p>Enhancing performance of triboelectric nanogenerators by using titanium oxide/polyvinylchloride nanocomposite films</p> <p>Gulahmadov Orkhan, Muradov Mustafa, Jiseok Kim <i>Baku State University, Azerbaijan</i></p>
17:00 - 17:15	<p>Development of magnetic nanoliquids utilizing Curie temperature-controlled nanoparticles and liquid crystals (online)</p> <p>Mitagvaria Nodar, Chirakadze Archil, Jishiashvili David, Petriashvili Gia, Chichua Teimuraz, Chubinidze Ketevan, Chigogidze K., Khuskivadze Nana, Gulashvili Mariam <i>Georgian Technical University, Georgia</i></p>
17:15 - 17:30	<p>Electrical properties of p-Si/Cd_{1-x}Zn_xS (Se)_{1-y}Se(Te)_y/ZnO heterojunctions</p> <p>Mamedov Huseyn, Jafarov Maarif, Nasirov Elshan, Rasulova Aida, Piriyeva Dilara, Ganbarova Sevinj <i>Baku State University, Azerbaijan</i></p>
17:30 - 17:45	<p>Effect of electrolyte solution on optical properties of CdS nanoparticles</p> <p>Muradov Mustafa, Gahramanli Lala, Eyvazova Goncha, Balayeva Ofeliya, Nasibov İlyas, Mirsultanova Reyhan <i>Baku State University, Azerbaijan</i></p>
17:45 - 18:00	<p>Ab initio studies of electronic band structure of defects in CdMnS</p> <p>Mehrabova Matanat¹, Panahov Natig², Hasanov Niyazi³ ¹ <i>Institute of Radiation Problems, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Azerbaijan University of Architecture and Construction, Azerbaijan</i> ³ <i>Baku State University, Azerbaijan</i></p>
18:00 - 18:15	<p>Carbon nanotubes decorated with nickel nanoparticles for ammonia detection</p> <p>Ahmadova Shahla¹, Musayeva Nahida¹, Trevisi Giovanna² ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>IMEM-CNR Institute, Italy</i></p>
18:15 - 18:30	<p>Ab initio study of structural and electronic properties of ZnSe</p> <p>Jafarova Vusala, Mamedov Nazim</p>

Parallel sessions

Session 1-3: Condensed Matter Physics / Biophysics

Chair: Sadiyar Ragimov (Azerbaijan), Zohrab Aghamaliyev (Azerbaijan)

Hall 2

[Link to session](#)

16:00 - 16:15	The thermoelectric power of superconducting $\text{Bi}_2\text{Sr}_2\text{Ca}_{0.8}\text{Zn}_{0.2}\text{Cu}_2\text{O}_x$ Ragimov Sadiyar, Agayeva Gunel, Babayeva Aygun <i>Baku State University, Azerbaijan</i>
16:15 - 16:30	Magnetic properties in biological systems Khalilov Rovshan, Nasibova Aygün <i>Baku State University, Azerbaijan</i>
16:30 - 16:45	On the exact solution of the quantum harmonic oscillator model exhibiting semiconfinement effect Jafarov Elchin ¹ , Van der Jeugt J. ² ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Ghent University, Belgium</i>
16:45 - 17:00	Ionic conductivity in solid solutions of $\text{TlSe}_{1-x}\text{S}_x$ Salmanov Famin, Aliyeva Nurane, Mammadov Ramil <i>Institute of Radiation Problems, Azerbaijan National Academy of Sciences, Azerbaijan</i>
17:00 - 17:15	Anti-stocks component of laser impulse in the optical fiber at cars Kasumova Rena ¹ , Safarova Gulnara ¹ , Kerimli Nazaket ² ¹ <i>Baku State University, Azerbaijan</i> ² <i>Azerbaijan Medical University, Azerbaijan</i>
17:15 - 17:30	Photoconductivity of ZnO thin films Jabiyeva Aynur <i>Baku State University, Azerbaijan</i>
17:30 - 17:45	Electrical and optical properties of ZnSTe thin films prepared by chemical bath deposition Khanmammadova Elmira <i>Azerbaijan State Oil and Industry University, Azerbaijan</i>
17:45 - 18:00	Electronic properties of a-15 type superconductor Ti_3Sb (online) Mammadova Saida <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
18:00 - 18:15	Analytical solution of Schrödinger equation for linear combination of the Manning-Rosen and Yukawa class potentials

Bayramova Gunel
Baku State University, Azerbaijan

December 16, Thursday

Plenary session

Chair: Faig Ahmedov (Azerbaijan), Valery Nakariakov (United Kingdom/Russia)

Main Hall

[Link to session](#)

10:00 - 10:45	Weyl points in acoustic metamaterials: theory and applications Mamedov Emirullah <i>Bilkent University, Turkey</i>
10:45 - 11:30	Overview of the ATLAS experiment results Cheplakov Alexander <i>Joint Institute for Nuclear Research, Russia</i>
11:30 - 11:50	Coffee Break / Poster session II

Keynote speakers' session

Chair: Mammad Rajabov (Azerbaijan), Emirullah Mamedov (Turkey),

Main Hall

[Link to session](#)

11:50 - 12:15	Dynamics of Ac Squid on Josephson junction with unharmonic current-phase relation Askerzade Iman <i>Ankara University, Turkey</i>
12:15 - 12:40	Primordial Black Holes and some of the Observational Consequences (online) Rahvar Sohrab <i>Sharif University of Technology, Iran</i>
12:40 - 13:05	Fundamentals of quantum computing (online) Sajid Qamar <i>COMSATS University, Pakistan</i>
12:55 - 14:00	Lunch

Parallel sessions

Session 1-1: Theoretical and High Energy Physics / Space Sciences and Astrophysics

Chair: Kamala Alisheva (Azerbaijan), Yasir Ali (Pakistan)

Main Hall

[Link to session](#)

14:00 - 14:15	High angular resolution and time delay of unique double gravitationally lensed quasars SDSS J1721+8842 from Maidanak observatory Asfandiyarov Ildar ¹ , Ehgamberdiev Shukhrat ^{1,2}
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	<p>¹ <i>Ulugh Beg Astronomical Institute of the Uzbekistan Academy of Sciences, Uzbekistan</i></p> <p>² <i>National University of Uzbekistan, Uzbekistan</i></p>
14:15 - 14:30	<p>Dispersion of the incoherent neutron waves when passing through the matter</p> <p>Abdulahabova Sajida, Bayramova Tunzala <i>Baku State University, Azerbaijan</i></p>
14:30 - 14:45	<p>Deuteron in the framework of soft-wall model AdS/QCD</p> <p>Huseynova Narmin, Mamedov Shahin, Badalov Vatan <i>Baku State University, Azerbaijan</i></p>
14:45 - 15:00	<p>Polarization of nucleon in the local potential with spin-orbital interaction</p> <p>Afandiyeva Irada, Ahmedov Rasim <i>Azerbaijan State University of Oil and Industry, Azerbaijan</i></p>
15:00 - 15:15	<p>The Boltzmann's "complexions" in Plank's black-body radiation</p> <p>Isayeva Elmira <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
15:15 - 15:30	Coffee Break / Poster session III
15:30 - 15:50	<p>Pygmy dipole resonance in ^{164}Dy</p> <p>Guliyev Akbar, Quliyev Huseyinqulu, Kuliev Ali ¹ <i>State Agency on Nuclear and Radiological Activity Regulation, Ministry of Emergency Situations, Azerbaijan</i> ² <i>National Aviation Academy of Azerbaijan, Azerbaijan</i></p>
15:50 - 16:05	<p>Investigation of the magnetic dipole moments of the $I^{\pi}K=1^{+}1$ states with extremely short lifetimes ($\leq 10^{-15}$ second)</p> <p>Kuliev Ali <i>National Aviation Academy of Azerbaijan, Azerbaijan</i></p>
16:05 - 16:20	<p>Experimental study of influence of different levels of heliogeophysical activity fluctuations on the functional state of the adult female brain</p> <p>Allahverdiyeva Aysel ^{1,2}, Allahverdiyev Ali ¹, Babayev Elchin ³ ¹ <i>Institute of Physiology named after A.I.Garayev, Azerbaijan National Academy of Sciences</i> ² <i>Institute of Physical Problems, Baku State University</i> ³ <i>Baku State University</i></p>
16:20 - 16:35	<p>Specific cyclic patterns of influenza incidence in Azerbaijan on long time-series of data and possible relation with solar and geophysical activity</p> <p>Babayev Elchin, Asgarov Abbas, Pirguliyev Mahir <i>Baku State University</i></p>
16:35 - 16:50	<p>Global and regional bioefficiency of heliogeophysical factors in subarctic and middle latitudes (online)</p> <p>Samsonov Sergey</p>

	<i>Federal State Budgetary Scientific Institution / Yu.G. Shafer Institute of Cosmophysical Research and Aeronomy of Siberian Branch of the Russian Academy of Sciences, Russia</i>
16:50 - 17:05	<p>Bioeffectiveness of geomagnetic variations in the period and out of the period of coronavirus infection (online)</p> <p>Parshina Svetlana¹, Samsonov Sergey² ¹ <i>Saratov State Medical University named after V.I. Razumovsky of the Ministry of Health of Russia, Russia</i> ² <i>Federal State Budgetary Scientific Institution / Yu.G. Shafer Institute of Cosmophysical Research and Aeronomy of Siberian Branch of the Russian Academy of Sciences, Russia</i></p>
17:05 - 17:20	<p>Biotropic effects of the auroral electrojet during the period of minimal activity of the 11-year solar cycle (online)</p> <p>Kodochigova Anna¹, Samsonov Sergey², Polidanov Maxim¹ ¹ <i>Saratov State Medical University named after V.I. Razumovsky of the Ministry of Health of Russian Federation, Russia</i> ² <i>Federal State Budgetary Scientific Institution / Yu.G. Shafer Institute of Cosmophysical Research and Aeronomy of Siberian Branch of Russian Academy of Sciences, Russia</i></p>
17:20 - 17:35	<p>Properties of erythrocytes in patients with angina in different periods of the 11-year solar cycle (online)</p> <p>Parshina Svetlana, Tokaeva Liliana <i>Saratov State Medical University named after V.I. Razumovsky of the Ministry of Health of Russian Federation, Russia</i></p>
17:35 - 17:50	<p>Solar- Earth communications, reactive oxygen species and structural DNA damage</p> <p>Tekutskaya Elena <i>Kuban State University of the Ministry Science and Education of the Russian Federation, Russia</i></p>
17:50 - 18:00	<p>Electron motion in a continuous media with external magnetic field</p> <p>Abbaszade Jamila, Abdullazade Chinara, Agayeva Chinara, Ahmadova Ulkar, Aliyeva Gulzar, Aliyeva Aytaj, Ali Rasul, Nazakat, Aslanova Rahila, Davudova, Ismayilova Gulzar, Jafarli Khadija, Maharramova Laman, Muradova Sabina, Pir-Mahammad Abdullahi Shabnam, Suleymanli Aytaj, Zeynalova Chinara, Jafarov Rauf <i>Baku State University, Azerbaijan</i></p>
18:00 - 18:10	<p>Spectral activity of the Herbig Ae star HD31648</p> <p>Rustamov Bayram^{1,2}, Mikailov Khidir¹, Alisheva Kamala^{1,2}, Mammadova Sabina², Aliyeva Vusala² ¹ <i>Baku State University, Azerbaijan</i> ² <i>Shamakhy Astrophysical Observatory named after N. Tusi, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
18:10 - 18:20	<p>Spectral study of the Nova ASASSN-17HX (SCT2017)</p>

	<p>Mikailov Khidir¹, Alisheva Kamala^{1,2}, Rustamov Bayram^{1,2}, Alakbarov Ilqar², Alili Aynura¹ ¹ <i>Baku State University, Azerbaijan</i> ² <i>Shamakhy Astrophysical Observatory named after N. Tusi, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
18:20 - 18:30	<p>The fundamental parameters of the star HD164613 (F2II)</p> <p>Samedov Zahir^{1,2}, Aliyeva Zamina¹, Hajiyeva Gunay², Rustam Ulkar² ¹ <i>Baku State University, Azerbaijan</i> ² <i>Shamakhy Astrophysical Observatory named after N. Tusi, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
18:30 - 18:40	<p>The contrast of Coronal Holes and relation with parameters of the solar wind at 1AU</p> <p>Asgarov Abbas <i>Baku State University, Azerbaijan</i></p>
18:40 - 18:50	<p>Effects of geomagnetic storms on the midlatitude D-region of the ionosphere</p> <p>Bayramova Elista, Mustafa Famil <i>Shamakhy Astrophysical Observatory named after N. Tusi, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
18:50 - 19:00	<p>Non-linear damping of surface Alfvén waves due to Uniturbulence (online)</p> <p>Ismayilli Rajab <i>KU Leuven, Belgium</i></p>

Parallel sessions

<p>Session 1-2: Materials Science and Engineering Chair: Mustafa Muradov (Azerbaijan), Maarif Jafarov (Azerbaijan) Hall 1 Link to session</p>	
14:00 - 14:15	<p>Active personal protective equipment using hepa filters with impregnated nanoparticles</p> <p>Chicua Teimuraz, Chirakadze Archil, Mitagvaria Nodar, Jishiashvili David, Jishiashvili Alexander, Buachidze Zakaria <i>Georgian Technical University, Georgia</i></p>
14:15 - 14:30	<p>Designing new type ESM for the synthesis of innovated structural nanofibers: based on ESM</p> <p>Nasibov Ilyas, Mirsultanova Reyhan, Gahramanli Lala, Ali Rasul, Gurbanova Firangiz <i>Baku State University, Azerbaijan</i></p>
14:30 - 14:45	<p>Synthesis of Ag-doped Co₃O₄ nanoparticles by sonochemical method</p> <p>Muradov Mustafa, Mammadyarova Sevinj, Eyvazova Goncha, Balayeva Ofeliya <i>Baku State University, Azerbaijan</i></p>

14:45 - 15:00	<p>Synthesis and testing of metal magnetic and isotopic enriched boron nitride nanoparticles (online)</p> <p>Mitagvaria Nodar, Chirakadze Archil, Jishiashvili David, Dvali Nugzar, Gigineishvili Akaki, Buachidze Zakaria, Chigogidze Ketevan, Khuskivadze Nana, Gulashvili Mariam <i>Georgian Technical University, Georgia</i></p>
15:00 - 15:15	<p>Electrical and optical properties of CdS thin films</p> <p>Jafarov Maarif, Kazimzade Aydin, Nasirov Elshan <i>Baku State University, Azerbaijan</i></p>
15:15 - 15:30	<p>A zinc-oxide nanoparticle-based formulation with low dose hydrochloroquine and azythromicine</p> <p>Mitagvaria Nodar, Chirakadze Archil, Dvali Nugzar, Petriashvili Gia, Chichua Teimuraz, Chigogidze Ketevan, Khuskivadze Nana, Gulashvili Mariam <i>Georgian Technical University, Georgia</i></p>
15:30 - 16:00	Coffee Break / Poster session III
16:00 - 16:15	<p>Photocatalysts for water splitting based on the $p\text{-Ge}/n\text{-CuIn}_5\text{S}_8/\text{Ag}(\text{NP})$ structure (online)</p> <p>Huseynov Ali, Salmanov Vagif, Mammadov Rovshan, Bayramova Aynura, Mirsultanova Reyhan <i>Baku State University, Azerbaijan</i></p>
16:15 - 16:30	<p>$\text{Cu}_2\text{ZnSnSe}_4$ thin film based solar cells obtained by magnetron sputtering method (online)</p> <p>Mursakulov Niyazi, Nuriyeva Saida, Abdulzade Nigar, Sabzaliyeva Chinara <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
16:30 - 16:45	<p>Synthesize of copper cadmium sulphide (CuCdS_2) nanoparticles on the basis of functionalized nitrile butadiene rubber by SILAR method</p> <p>Balayeva Ofeliya, İmamaliyeva Narmin, Azizov Abdulsaid, Muradov Mustafa, Alosmanov Rasim, Gahramanli Lala, Eyvazova Goncha <i>Baku State University, Azerbaijan</i></p>
16:45 - 17:00	<p>Structure and optical properties of Ag nanowires</p> <p>Nuriyeva Sevinj, Hasanov Kanan <i>Baku State University, Azerbaijan</i></p>
17:00 - 17:15	<p>Enhancement of the PL intensity of PVDF +PbS/CdS nanocomposites after electro-thermo-polarization (online)</p> <p>Ramazanov Mahammadali¹, Jafarov Maarif¹, Angelo Chianese², Hajiyeva Flora¹, Novruzova Aygul¹ ¹ <i>Baku State University, Azerbaijan</i> ² <i>Sapienza University of Rome, Italy</i></p>
17:15 - 17:30	<p>Research of X-ray structure spectrum of magnetite nanoparticles-chrysin system (online)</p>

Qurbanova Nargiz, Karimova Aynura, Nuriyeva Sevinj, Shirinova Habiba
Baku State University, Azerbaijan

Parallel sessions

Session 1-3: Condensed Matter Physics / Biophysics

Chair: Gulnara Akverdieva (Azerbaijan), Archil Chirakadze (Georgia)

Hall 2

[Link to session](#)

14:00 - 14:15	Gap-dependent coupling of wedge-channel nanoparticle heterodimers (online) Ilyashenko-Raguin Ludmila <i>Kharkiv Natinal University of Radio Electronics, Ukraine</i>
14:15 - 14:30	Molecular mechanics simulation of conformational behavior of anticancer aap-h peptide Agaeva Gulshen, Agaeva Ulker, Godjaev Niftali <i>Baku State University, Azerbaijan</i>
14:30 - 14:45	Conformational and molecular docking analysis of capecitabine that has anticancer activity (online) Sefa Celik ¹ , Sevim Akyuz ² , Aysen Ozel ¹ ¹ <i>Istanbul University, Turkey</i> ² <i>Istanbul Kultur University, Turkey</i>
14:45 - 15:00	Magnetic properties of Si doped and adsorbed monolayer graphene with vacancy (online) Huseynova Suma, Mammadova Saida <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
15:00 - 15:15	Hydration numbers of ions in aqueous solutions of KCL, KCL+PEG, KCL+Sodium citrate Masimov Eldar, Shahbazova Gunel, Suleymanzade Arzu <i>Baku State University, Azerbaijan</i>
15:15 - 15:30	Proton therapy of cancer using metal and isotope enriched boron nitride nanoparticles Chirakadze Archil, Mitagvaria Nodar, Jishiashvili David, Dvali Nugzar, Sapojnikova N., Giginishvili A., Buachidze Z., Chigogidze K., Khuskivadze N., Gorgadze K. <i>Georgian Technical University, Georgia</i>
15:30 - 16:00	Coffee Break / Poster session III
16:00 - 16:15	Nanoparticles enhancing radiotherapy of cancer and their acute toxicity to bird embryos Chirakadze Archil, Dvali Nugzar, Petriashvili Gia, Chichua Teimuraz, Ambokadze Maia, Chigogidze Ketevan, Gorgadze Kakha

	<i>Georgian Technical University, Georgia</i>
16:15 - 16:30	<p>Interaction nanoparticles with plants towards to the increase the tolerance to salinity and drought</p> <p>Ahmadov Ismat, Hasanova Faride, Babanli Safiyakhanım <i>Baku State University, Azerbaijan</i></p>
16:30 - 16:45	<p>Development, laboratory study and field testing of new nanoparticle based combined insecticides</p> <p>Chirakadze Archil, Mitagvaria Nodar, Dvali Nugzar, Gigineishvili Akaki, Petriashvili Gia, Ambokadze Maia, Chigogidze Ketevan, Khuskivadze Nana, Buachidze Zakaria, Gulashvili Mariam <i>Georgian Technical University, Georgia</i></p>
16:45 - 17:00	<p>Electronic and structural properties of Fe-doped bigophone sheets: in-silico study</p> <p>Jafarova Vusala¹, Azar Yavar² ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Physics and accelerators school, NSTRI, Iran</i></p>
17:00 - 17:15	<p>Spatial and electronic structure of some azo-derivatives of β-diketones according to quantum chemical calculations by PM3 semi-empirical method</p> <p>Demukhamedova Svetlana, Alieva Irada <i>Baku State University, Azerbaijan</i></p>
17:15 - 17:30	<p>Activation parameters of basic flow in aqueous solutions of LiCl, NaCl and KCl salts and partial molar volume of salts in solution</p> <p>Masimov Eldar, Pashayev Bakhtiyar, Surkhayli Afsana <i>Baku State University, Azerbaijan</i></p>
17:30 - 17:45	<p>Exposure of cells and cancer tissues to radiomimetic, localized and WHB hyperthermia</p> <p>Mitagvaria Nodar, Jishiashvili Archil, Phichkhaia Giorgi, Buachidze Zakaria, Gigineishvili Akaki, Jishiashvili David, Khuskivadze Nana, Chigogidze Ketevan, Khomeriki Irina <i>Georgian Technical University, Georgia</i></p>

December 17, Friday

Keynote speakers' session

Chair: Rana Kasumova (Azerbaijan), Emil Akhmedov (Russia)

Main Hall

[Link to session](#)

09:00 - 09:25	Using the ground and space based remote sensing observations in air quality forecasting (online) Ravan Ahmadov <i>CIRES, University of Colorado / NOAA Global Systems Laboratory, USA</i>
09:25 - 09:50	MHD Waves and instabilities in the Collision less Space Plasma Namig Dzhililov <i>Shamakhy Astrophysical Observatory named after N. Tusi, Azerbaijan National Academy of Sciences, Azerbaijan</i>
09:50 - 10:15	Tunability of optical properties of 2D layers (online) Arshad Saleem Bhatti <i>Virtual University, Pakistan</i>
10:15 - 10:40	Specifics of enhancing safety of cancer treatment during pandemics using nanoparticle mixtures Archil Chirakadze <i>Georgian Technical University, Georgia</i>
10:40 - 11:10	Coffee Break / Poster session IV
11:10 - 11:35	Sensors based on nanomaterials (online) Stefano Bellucci <i>INFN National Laboratory of Frascati, Italy</i>
11:35 - 12:00	Solar - Terrestrial Relations and Biosphere: from early Earth to present (online) Ragulskaya Mariya <i>Institute of Terrestrial Magnetism, Ionosphere and Radio-Wave Propagation (IZMIRAN), Russian Academy of Sciences, Russia</i>
12:00 - 12:25	Delamination and redox behavior of black phosphorous (online) Ákos Kukovecz <i>University of Szeged, Hungary</i>
12:25 - 12:50	Molecular modeling applied to the biologically active substances Gulnara Akverdieva <i>Baku State University, Azerbaijan</i>
12:50 - 14:00	Lunch
14:00 - 16:00	Meeting of the Steering Committee of Conference Concluding Remarks Outcomes of Conference

Poster session I
December 15, 15:40 - 16:00

1	The study of the optical characteristics of p-CuAgTe Jalilova K.H., Gadjieva G.S. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
2	Relaxation properties of PP and PE - based nanocomposites Huseynova A. ¹ , Hajiyeva F. ² ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Baku State University, Azerbaijan</i>
3	Features of the optical absorption spectrum in the Sb-Se chalcogenide glass system Mekhtiyeva S. ¹ , Isayev A. ¹ , Alekberov R. ^{1,2} , Sadikhli R. ¹ , Mammadova H. ¹ , Garibova S. ^{1,3} ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Azerbaijan State University of Economics, Azerbaijan</i> ³ <i>Khazar University, Azerbaijan</i>
4	Influence of interlayer interaction changes on Bi₂Te₃ layered crystals intralayer bonds Gahramanov S.Sh., Gahramanov K.Sh., Abdullayev N.A. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
5	Spatial structure of octapeptide molecule Ismailova L.I., Abbasli R.M., Akhmedov N.A. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
6	Small sized structures deposited from a sharp emitter on a nearby surface Gasanov I.S., Eminov Sh., Aliyev S., Mammedova G., Gurbanov I., Akberov E., Mamedov F. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
7	Magnetic properties of Zn_{1-x}Fe_xSe compound Ismayilova N.A. ¹ , Abbasov I.I. ² ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Azerbaijan State Oil and Industry University, Azerbaijan</i>
8	Thermally stimulated currents in bismuth silicate Bagiev V.E., Rustamov F.A., Darvishov N.H., Mamedov M.Z. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
9	Plasma modification of electrophysical properties of composite materials Dadashov Z.A., Guseynova G.KH., Ramazanova I.S., Tatardar F.N. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
10	Three-dimensional structure of the gluteomorphin molecule Akhmedov N.A., Agayeva L.N., Abbasli R.M., Ismailova L.I. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>

11	Influence of a complex profile quantum well parameters on the thermopower of a nondegenerate two-dimensional electron gas Figarova S.R., Mahmudov M.M., Khasiyeva G.N. <i>Baku State University, Azerbaijan</i>
12	Relaxation time for interband and intra-band scattering in superlattices in a strong magnetic field Figarova S.R., Mahmudov M.M., Qazanfarli R.Kh. <i>Baku State University, Azerbaijan</i>
13	Effect of gamma radiation on the photo-electrics properties of p-CuTlS₂ single crystal Madatov R.S. ^{1,2} , Mamishova R.M. ¹ , Allahverdiyev Sh.A. ³ , Faradjova U.F. ² ¹ <i>Institute of Radiation Problems, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>National Aviation Academy, Azerbaijan</i> ³ <i>Baku State University, Azerbaijan</i>
14	Anisotropy of electrical conductivity in TlInTe₂-Te solid solutions Madatov R.S. ¹ , Khalilova K.H. ² , Najafov A.I. ² , Mammadov M.A. ¹ ¹ <i>Institute of Radiation Problems, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
15	Investigation of electrophysical properties of deeply buried avalanche photodiodes Jafarova E.A. ¹ , Dovlatov A.A. ² , Aliyeva L.A. ¹ , Aliyev R.A. ³ , Tapdygov E.S. ¹ ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Azerbaijan State Oil and Industry University, Azerbaijan</i> ³ <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
16	Modeling of the main component's distribution in Ge-Si crystals by a modified technique Aghamaliyev Z.A. <i>Baku State University, Azerbaijan</i>
17	Vapor synthesis of ZnO nanocrystal-based hollow microspheres Jishiashvili A.D., Chirakadze A.A., Shiolashvili Z.N., Makhatadze N.K., Gobronidze V.V., Jishiashvili D.A. <i>Georgian Technical University / V. Chavchanidze Institute of Cybernetics, Georgia</i>

Poster session II

December 16, 10:30 - 10:50

1	Metal carbon nanocomposites based on high pressure polyethylene Mirzoeva N.A. ¹ , Kurbanova N.I. ¹ , Zeynalov E.B. ² ¹ <i>Institute of Polymer Materials, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Institute of Catalysis and Inorganic Chemistry, Azerbaijan National Academy of Sciences, Azerbaijan</i>
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2	<p>Fullerene containing composites based on isotactic polypropylene</p> <p>Dunyamalieva A.I.¹, Kurbanova N.I.¹, Zeynalov E.B.² ¹ <i>Institute of Polymer Materials, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Institute of Catalysis & Inorganic Chemistry, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
3	<p>Adsorption and photodegradation of orange G dye by CoAl LDH /PVA and copper doped CoAl LDH/PVA nanocomposites under visible light</p> <p>Abdullayeva G., Azizov A., Balayeva O., Buniyatzade I., Mammadyarova S. <i>Baku State University, Azerbaijan</i></p>
4	<p>Synthesis of SnS nanocrystals and SnS/CdZnS structures</p> <p>Jahangirova S. <i>Baku State University, Azerbaijan</i></p>
5	<p>Electrodeposition of In₂S₃ layer for solar cells</p> <p>Jahangirova S. <i>Baku State University, Azerbaijan</i></p>
6	<p>The study of supramolecular ensembles based on GO nanolayers and novel azomethines</p> <p>Aliyeva G.S.¹, Ibrahimli E.R.¹, Mehraliyeva G.E.^{1,2}, Huseynzadeh A.E.¹, Hasanova U.A.¹, Ismayilov V.M.¹, Yusubov N.N.¹ ¹ <i>Baku State University, Azerbaijan</i> ² <i>Azerbaijan State Oil and Industry University, Azerbaijan</i></p>
7	<p>Metal-containing nanocomposites based on isotactic polypropylene and Butadiene–Acrylonitrile Rubber</p> <p>Kurbanova N. I.¹, Guliyeva T. M.¹, Eyvazova G.M.², Aghamaliyev Z.A.², Muradov M.B.² ¹ <i>Institute of Polymer Materials, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Baku State University, Azerbaijan</i></p>
8	<p>On tunneling in multilayer structures</p> <p>Zeynalova Sh.H. <i>National Aviation Academy, Azerbaijan</i></p>
9	<p>Sensorics in polymer composite materials</p> <p>Allahverdiyeva S.Q. <i>National Aviation Academy, Azerbaijan</i></p>
10	<p>PBS/PVA-MG-AL-OH nanocomposite as photocatalyst for malachite green dye under visible light</p> <p>Ibrahimova Kh.A., Azizov A.A., Balayeva O.O., Alosmanov R.M. <i>Baku State University, Azerbaijan</i></p>
11	<p>Simultaneous effect of external factors on the dielectric strength of polyethylene+nanoclay nanocomposites</p>

	Sadygova A.R., Hadiyeva A.A., Asilbeyli P.B., Sadig Kh.O. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
12	Aluminum anodic oxide as a template for formation of nickel nanowires Kerimova A. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
13	New liquid crystal nanocomposites and their functional features Bayramov G.M. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
14	Plasmonics for safety, security and defense Ilyashenko-Raguin L.N. ^{1,2} , Perevyasko A.M. ² , Petrechenko C.A. ² ¹ <i>Kharkiv National University of Radio Electronics, Ukraine</i> ² <i>National Academy of the National Guard of Ukraine, Ukraine</i>
15	Kinetics of formation and destruction of the dielectric gap surface of the ionic material in the external electric field Orbukh V.I., Lebedeva N.N., Eyvazova G.M. <i>Baku State University, Azerbaijan</i>
16	Temperature and surface states influence on the identifying of Schottky diode parameters Afandiyeva I.M. ¹ , Babayeva R.F. ² , Akhundov Ch.G. ¹ ¹ <i>Institute for Physical Problems, Baku State University, Azerbaijan</i> ² <i>Azerbaijan State University of Economics, Azerbaijan</i>
17	The potential barrier height and profile of surface states of Re/n-GaAs Schottky barrier diode Afandiyeva I.M. ^{1,2} , Babayeva R.F. ² ¹ <i>Institute for Physical Problems, Baku State University, Azerbaijan</i> ² <i>Azerbaijan State University of Economics, Azerbaijan</i>
18	Adsorption of nanoparticles on the surface of plant cells and migration in their organs Mustafazade A.A., Ahmadov İ.S. <i>Baku State University, Azerbaijan</i>
19	Exact solution of the Klein–Fock–Gordon equation for the modified Rosen–Morse potential Aliyeva T.H. ¹ , Quliyeva G.H. ² ¹ <i>Institute for Physical Problems, Baku State University, Azerbaijan</i> ² <i>Sumgayit State University, Azerbaijan</i>
20	Circular (linear) polarization of the quantum in the reaction Abdullayev S.K., Gojayev M.Sh., Gulayeva A.K. <i>Baku State University, Azerbaijan</i>
21	Dielectric function and crystallinity of polycrystalline films Aliyeva Y.N., Bagiev E.A., Alizade E.H., Jalili J., Bayramov A.H., Mamedov N.T.

Poster session III

December 16, 15:30 - 16:00

1	Spin dynamics ($S = 1/2$ and $S = 1$) in hexagonal nanotube systems Tanriverdiyev V.A., Tagiyev V.S., Mustafayev N.B., Ibrahimov I.N. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
2	Photoluminescence properties of GeS:Nd layered crystals in room temperature Asadullayeva S.G. ¹ , Dashdemirov A.O. ² , Alekperov A.S. ¹ , Jabarov S.H. ³ , Qafarova G.A. ¹ ¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i> ² <i>Azerbaijan State Pedagogical University, Azerbaijan</i> ³ <i>Azerbaijan State Economic University, Azerbaijan</i>
3	Impedance Characteristics of γ-Irradiated $(\text{TlInSe}_2)_{1-x}(\text{TlGaTe}_2)_x$ Solid Solutions Sardarli R.M., Aliyeva N.A., Mammadov R.A., Rasulova A.A. <i>Institute of Radiation Problems, Azerbaijan National Academy of Sciences, Azerbaijan</i>
4	Optical Absorption and Urbach energy of $(\text{TlGaSe}_2)_{1-x}(\text{TlInSe}_2)_x$ ($x=0\div 1,0$) solid solution Sardarli R.M., Salmanov F.T., Aliyeva N.A., Mammadov R.A., Rasulova A.A. <i>Institute of Radiation Problems, Azerbaijan National Academy of Sciences, Azerbaijan</i>
5	The properties of electroconductivity in TlSe single crystal irradiated with γ-quanta Gahramanova S.M., Aliyeva N.A., Mammadov R.A., Dadashova S.D. <i>Institute of Radiation Problems, Azerbaijan National Academy of Sciences, Azerbaijan</i>
6	Impurity-defect luminescence in ZnSe: Fe in the near infrared range Abbasov I.I. ¹ , Musayev M.A. ¹ , Nuriyeva S.G. ² , Huseynov J.I. ³ , Gavrishuk E.M. ⁴ , Askerov D.J. ¹ , Aliyeva L.A. ⁵ , Ragimov R.Sh. ² ¹ <i>Azerbaijan State Oil and Industry University, Azerbaijan</i> ² <i>Baku State University, Azerbaijan</i> ³ <i>Azerbaijan State Pedagogical University, Azerbaijan</i> ⁴ <i>Institute of Chemistry of High-Purity Substances of the Russian Academy of Sciences, Russia</i> ⁵ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
7	Impurity-defect luminescence in ZnSe: Cr in the near infrared range Abbasov I.I. ¹ , Musayev M.A. ¹ , Nuriyeva S.G. ² , Huseynov J.I. ³ , Gavrishuk E.M. ⁴ , Askerov D.J. ¹ , Aliyeva L.A. ⁵ , Ragimov R.Sh. ² ¹ <i>Azerbaijan State Oil and Industry University, Azerbaijan</i> ² <i>Baku State University, Azerbaijan</i> ³ <i>Azerbaijan State Pedagogical University, Azerbaijan</i> ⁴ <i>Institute of Chemistry of High-Purity Substances of the Russian Academy of Sciences, Russia</i> ⁵ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
8	Magnetic properties of the diluted manganite system $\text{La}_{1-c}\text{Sr}_c\text{Mn}_{1-y}\text{Zn}_y\text{O}_3$

	<p>Eremina R.M.¹, Yatsyk I.V.¹, Shustov V.A.¹, Seidov Z.Y.^{2,4}, Krug von Nidda H.-A.², Badelin A.G.³, Karpasyuk V.K.³, Najafzade M.J.⁴, Ibrahimov I.N.⁴, Abdinov J.Sh.⁴</p> <p>¹ <i>Zavoisky Physical-Technical Institute, Federal Research Center Kazan Scientific Center of Russian Academy of Sciences, Russia</i></p> <p>² <i>Experimental Physics V, Center for Electronic Correlations and Magnetism, University of Augsburg, Germany</i></p> <p>³ <i>Astrakhan State University, Russia</i></p> <p>⁴ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
9	<p>Electrical and galvanomagnetic properties of chalcogenide spinel containing Ni_{0.25}Cu_{0.05}Fe_{0.70}Cr₂S₄</p> <p>Ahmedov A.N. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Baku, Azerbaijan</i></p>
10	<p>Protective effect of hydrogen peroxide in the hemolysis of erythrocytes mediated by silver nanoparticles</p> <p>Voinarovski V.V., Vcherashniaya A.V., Martinovich G.G. <i>Belarusian State University, Belarus</i></p>
11	<p>Simple synthesis method of tin dioxide nanoparticles for gas sensing application</p> <p>Ahmadova D.A., Musayeva N.N. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
12	<p>Formation of superstructure based solid solutions in TLIn_{1-x}Sn_xSe₂ films</p> <p>Panakhov M.M.¹, Alekperov E.Sh.¹, Gahramanov N.F.¹, Garayev E.S.¹, Nazarov A.M.², Farzaliyev S.S.², Sadraddinov S.A.¹</p> <p>¹ <i>Baku State University, Azerbaijan</i></p> <p>² <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i></p>
13	<p>Kinetics of crystallization of amorphous TLIn_{1-x}Sn_xSe₂ films obtained in an electric field</p> <p>Alekperov E.Sh. <i>Baku State University, Azerbaijan</i></p>
14	<p>Dielectric hysteresis in submicron barium titanate particles</p> <p>Imamaliyev A.¹, Ganizade G.¹, Humbatov Sh.²</p> <p>¹ <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i></p> <p>² <i>Baku State University, Azerbaijan</i></p>
15	<p>Activation parameters of basic flow in water-ethanol-urea system</p> <p>Masimov E.A., Pashayev B.G., Hajiyeva S.N., Aliyev L.P. <i>Baku State University, Azerbaijan</i></p>
16	<p>Determination of hydration number of polymers</p> <p>Pashayev B.G., Rajabov M.R., Orujova N.F. <i>Baku State University, Azerbaijan</i></p>
17	<p>Properties of the PP+ metal Oxide nanocomposite before and after influence electro-thermal polarization</p>

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Poster session IV

December 17, 10:40 - 11:10

1	Dielectric properties of MnGaInTe₄ crystals in an alternating electric field Niftiyev N.N. ¹ , Mammadov F.M. ² , Muradov M.B. ³ ¹ <i>Azerbaijan State Pedagogical University, Azerbaijan</i> ² <i>Institute of Catalysis & Inorganic Chemistry, Azerbaijan National Academy of Sciences, Azerbaijan</i> ³ <i>Baku State University, Azerbaijan</i>
2	Molecular mechanics simulation of conformational behavior of anticancer aap-h peptide Agaeva G.A., Agaeva U.T., Godjaev N.M. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
3	Photoluminescence of Nd₃₊ doped CdGa₂Se₄ and ZnGa₂Se₄ Mamedova I., Nabiyeva A., Kerimova T., Abdullayev N. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
4	The role of osmotic pressure in biological systems Aliyeva K.N. <i>Baku State University, Azerbaijan</i>
5	Characterization of Sn Doped ZnS Thin Films Synthesized by CBD Jafarov M.A., Kazımzade A.H., Nasirov E.F., Jahangirova S.A. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
6	Structural analysis of Val-Trp dipeptide Rahimzade S.G., Akverdieva G.A. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
7	Spatial structure of the exorphinc molecule Agayeva L.N., Abdinova A.A., Akhmedova S.R., Akhmedov N.F. <i>Institute for Physical Problems, Baku State University, Azerbaijan</i>
8	Influence of a high-frequency electric field (50 hz) on blood plasma with the pathology of b-thalassemia Dadashov M.Z. <i>Institute of Biophysics, Azerbaijan National Academy of Sciences, Baku, Azerbaijan</i>
9	Evolution of polarized muon-photon shower in crystals with the account linear polarization of quanta and longitudinal polarization of muons

	Rajabov M.R. <i>Baku State University, Azerbaijan</i>
10	Backward bremsstrahlung of muons with account the of polarization particles and recoil effects Rajabov M.R. <i>Baku State University, Azerbaijan</i>
11	The investigation of optical characteristics of $Ni_{1-x}Zn_xFe_2O_4$ nanopowders Sadıgova A.A., Aliyeva Sh.N., Mehdiyev T.R. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
12	Kinetics of IV→III polymorphous transformation in $Rb_{0,95}Cs_{0,05}NO_3$ single crystals Kazimova A.F. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
13	Generation of Ultrahigh Frequency in GaAs-type Semiconductors Hasanov E.R., Alimova T.A. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
14	Minimal coupling constant of ρ meson-Δ baryon from the ADS/QCD soft wall model at finite temperature Nasibova N.A. <i>Institute of Physics, Azerbaijan National Academy of Sciences, Azerbaijan</i>
15	Deuteron profile function in hard-wall model of ADS/QCD Huseynova N.J., Mamedov Sh.A <i>IPP of Baku State University, Azerbaijan</i>