

**Programul prezentarilor la “Sesiunea de comunicări științifice a tinerilor
cercetători din IFIN-HH”- 2018**

Stimați colegi, participanți la Sesiunea de comunicări științifice a tinerilor cercetători din IFIN-HH - 2018

Vă informăm că sesiunea de comunicări științifice va avea loc la Biblioteca Națională de Fizică (BNF), 17.12.2018, începând cu orele 9:00, și se va desfășura pe 3 secțiuni după cum urmează:

1. Fizică Teoretică, Sala de Seminar, parter, BNF
2. Fizică Experimentală, Sala A, etaj 1, BNF
3. Cercetări Aplicative, Sala B, etaj 1, BNF

Componenta comisiei de examinare la secțiunea de Fizica Teoretică, Sala de Seminar, parter, BNF

1. Dr. Aurelian Isar
2. Dr. Dragos Anghel
3. Dr. Doru Delion

Componenta comisiei de examinare la secțiunea de Fizica Experimentală, Sala A, etaj 1, BNF

1. Dr. Calin Alexa
2. Dr. Mihai Stanoiu
3. Dr. Alexandra Saftoiu

Componenta comisiei de examinare la secțiunea de Cercetări Aplicative, Sala B, etaj 1, BNF

1. Dr. Mihai Ciubotaru
2. Dr. Liviu Craciun,
3. Dr. Marian Virgolici

Atașate găsiți programele detaliate, pe secțiuni.

Secretariatul Științific

Programul prezentărilor la

“Sesiunea de comunicări științifice a tinerilor cercetători din IFIN-HH”

Sectiunea – Fizică Teoretică

Biblioteca Națională de Fizică, Sala de seminar parter, 17.12.2018

1. 9:00 - 9:15 Efficient cyclic permutations for qudits, **Isdraila Tudor-Alexandru – DFT**
2. 9:15 - 9:30 Towards Color Glass Condensate at LHC energies, **Avramescu Dana – DFH**
3. 9:30 - 9:45 Bosonic approaches to isovector pairing in nuclear systems, **Baran Virgil – DFT**
4. 9:45 - 10:00 Quantum fidelity of two-mode Gaussian states interacting with a thermal bath", **Cuzminschi Marina – DFT**
5. 10:00 - 10:15 Developing a toolbox for simulating modular quantum circuitry, **Dragomir Andrei Emanuel – DFT**
6. 10:15 - 10:30 Theoretical investigation of α -like quasimolecules in heavy nuclei, **Dumitrescu Alexandru – DFT**
7. 10:30 - 10:45 Non-Markovianity and coarse graining, **Ivan Cristian – DFT**
8. 10:45 - 11:00 Beyond-mean-field approach to rp-process waiting point nuclei and effects on X-ray burst models, **Mare Adrian Sorin – DFH**
9. 11:00 – 11:15 Study of Ternary Fission by Three Cluster Model, **Mastaneh Zadehrafii – DFT**
10. 11:15 – 11:30 Random witnesses of quantum steering for Gaussian states, **Mihaescu Tatiana – DFT**
11. 11:30 – 11:45 Relativistic scattering wave functions for beta decay particles, **Nitescu Ovidiu Vasile - DFT**
12. 11:45 – 12:00 Quantum technologies with optical vortices, **Palici Alexandra – DFT**
13. 12:00 – 12:15 Some aspects of triaxial nuclei, **Poenaru Robert - DFT**
14. 12:15 – 12:30 Resource Theory, **Suciu Serban - DFT**

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Sectiunea – Fizică Experimentală

Biblioteca Națională de Fizică, Sala A, etaj 1, 17.12.2018

1. 9:00 - 9:15 Measurements using the WILLI-AIR experiment, **Balaceanu Alexandru – DFN**
2. 9:15 – 9:30 Neutron-induced inelastic cross sections on ^{16}O performed at the GELINA neutron source of EC-JRC, **Boromiza Marian – DFN**
3. 9:30 – 9:45 breakup and Coulomb dissociation of ^9C nucleus studied at RIBF RIKEN, **Chilug Alexandra – DFN**
4. 9:45 – 10:00 First evidence of the associated production of a single top-quark and a Z boson, **Cioară Irina – DFPE**
5. 10:00 – 10:15 MetaReader - a new tool for reading in-file metadata in Athena / ATLAS, **Ciubotaru Dan – DFPE**
6. 10:15 – 10:30 Gamma-Spectroscopy of the Low Spin States of ^{232}Ac Following the Beta, **Clisu Cristina – DFN**
7. 10:30 – 10:45 Search for doubly-charged Higgs boson production in multi-lepton final states, **Dumitriu Ana Elena – DFPE**
8. 10:45 - 11:00 Prompt V_0 production cross-sections and ratios in pp collisions at $\sqrt{s}=13$ TeV measured at the LHCb experiment, **Ene Alexandru Catalin – DFPE**
9. 11:00 – 11:15 Performance studies in events with one isolated lepton. Non-Collision Background studies in the ATLAS experiment at the LHC **Geanta Andrei Alexandru – DFPE**
10. 11:15 - 11:30 Fission Dynamics in Heavy Ion Collisions near the Interaction Barrier, **Harca Iulia Maria – DFN**
11. 11:30 - 11:45 Complementary investigation of ^{150}Sm using Rosphere, **Ionescu Alina-Nicoleta – DFN**

12. 11:45 – 12:00 Dependence of different observables on the CGC inspired variable for light flavor hadrons in pp and A-A collisions at RHIC and LHC energies, **Lindner Amelia – DFH**
13. 12:00 – 12:15 Spectroscopic investigation of low-lying $T = 0, 1$ states in ^{62}Ga , **Mihai Radu Emanuel – DFN**
14. 12:15 – 12:30 Proton Induced Radiation Effects in a CMOS Antifuse FPGA, **Placinta Vlad-Mihai – DFPE**
15. 12:30 – 12:45 The search for shape isomerism in ^{64}Ni , **Stan Lucian - DFN**
16. 12:45 – 13:00 Precision fast-timing measurements in Po isotopes, **Costache Cristian – DFN**
17. 13:00 – 13:15 Electron performance at the ATLAS detector. Search for flavor-changing neutral currents in $t \rightarrow Hq$ ($q=u,c$) decays with the ATLAS detector, **Tarna Grigore – DFPE**
18. 13:15 – 13:30 Determination of isospin mixing in mirror nuclei, **Turturica Andrei Emanuel, DFN**
19. 13:30 – 13:45 Extensive Air Shower reconstruction for the KASCADE-Grande experiment, **Alexandru Gherghel – DFN**
20. 13:45 – 14:00 Assessing the experimental limits of the Moving Tape Collector, **Sebastian Toma – DFN**
21. 14:00 – 14:15 Betaboltz: a Monte-Carlo simulation tool for gas scattering processes, **Michele Renda - DFPE**
22. 14:15-14:30 Catching muons underwater, **Niculescu-Oglinzanu Mihai-DFN**

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Sectiunea – Cercetări Aplicative

Biblioteca Națională de Fizică, Sala B, etaj 1, 17.12.2018

1. 9:00 - 9:15 Resistive switching studies in memristor devices, **Andrei Radu-Florin – DAT**
2. 9:15 - 9:30 Irradiation Setup for Proton Radiobiology with a PET Cyclotron, **Chiriacescu Ana - DFNA-CCR**
3. 9:30 - 9:45 Testing of fluka monte carlo transport code for different shielding configurations, **Dinescu Irina - Eliza – DFN**
4. 9:45 - 10:00 Digital AMOC Age-MOMentum Correlation, **Focsaneanu Marin – DFNA**
5. 10:00 - 10:15 Overview on IAEA Residential Assignment: Lessons Learned, Results and Future Collaboration, **Ganea Maria Larisa - DFN**
6. 10:15 - 10:30 ¹⁴C dating of sea shells for geomorfology studies, **Ilie Maria Valentina – DAT**
7. 10:30- 10:45 Development of a compact ΔE -E telescope system for the characterization of hydrogen isotopes using elastic recoil detection analysis (ERDA): First experimental results, **Mihai Maria-Diana – DFN**
8. 10:45 - 11:00 The problem of the threefold maximal neutrino mixing, **Mihalceanu Stelian – DFNA**
9. 11:00 - 11:15 Refractory osmium targets for accelerator based nuclear activation experiments prepared by Pulsed Laser Deposition technique, **Mitu Andreea – DFN**
10. 11:15 – 11:30 Phase Locking Value in Neural Networks of Pharmacoresistant Epileptic Patients - **Nacu Maria-Alexandra – IRASM**
11. 11:30 - 11:45 Achieving optimum melanin production from cultured *Fomes* sp. mycelium via gamma ray stimulation using a SVST Co-60/B irradiator, **Petre Alexandru – IRASM**
12. 11:45 – 12:00 Positron Spectroscopy - fundamentals and applications, **Petruneac Marta – DFNA**

13. 12:00 – 12:15 Tumor spheroids for in vitro evaluation of antitumoral drugs- Preliminary results, **Raileanu Mina – DFVM**
14. 12:15 – 12:30 Digital analysis of actin filaments images obtained by fluorescence microscopy, **Rusu Mircea Călin - DFVM**
15. 12:30 – 12:45 Non-destructive Characterization of U Based Gamma-Defectoscopes for Nuclear Forensics Purposes, **Serban Andreea Elena – DFN**
16. 12:45 – 13:00 Ion extraction from gas cells with supersonic jets formed in Laval Nozzles, **State Alexandru – DAT**
17. 13:00 – 13:15 Pilocarpine modulates the muscarinic receptors activity in endothelial cell- a calcium imaging based study, **Stoica Roberta – DFVM**
18. 13:15 – 13:30 Voltammetric Determination of Metronidazole at Glassy Carbon and Carbon Paste Modified Electrodes, **Stoica Raluca Diana – DFVM**
19. 13:30 – 13:45 Complex analysis of a vesicular basalt sample, **Stoicescu Daniel – DFNA**
20. 13:45 – 14:00 Functionalization treatments with gamma radiation and nanoparticles of leather materials, **Herman Cosmin - IRASM**
21. 14:00 – 14:15 Functionalization of Cotton Textile Materials with Ag and ZnO Nanoparticles and Gamma Irradiation, **Capraru Ovidiu – IRASM**
22. 14:15 – 14:30 Pulsing System for the 9 mv tandem accelerator, **Robu Andrei – DAT**
23. 14:30 – 14:45 Digital Signal Processing for a detector with LaBr₃(Ce) scintillator and SiPM Array, **Ujeniuc Sorin – DFN**
24. 14:45 – 15:00 Investigation of human lymphocytes radiosensitivity, **Staicu Elena Cristina – DFVM**
25. 15:00 – 15:15 RF carpet design and testing for cryogenic stopping cell, **Rotaru Adrian – DAT**
26. 15:15 – 15:30 Stimulation of seeds germination by treatment with non-thermal plasma, **Sîrbu Robert – DAT**
27. 15:30 – 15:45 Analysis of elemental impurities for the pharmaceutical industry. Induced coupled plasma mass spectrometry studies, **Albotă Florin Adrian – IRASM**

28. 15:45 - 16:00 Advantages of using SiPMs in muon detectors, **Fronoiu Andru -
DFN**