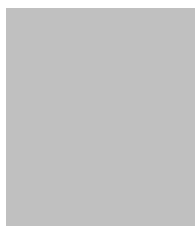


PERSONAL INFORMATION Ionel LAZANU



University of Bucharest, Faculty of Physics

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Sex M | Date of birth 25/05/1957 | Nationality Romanian

WORK EXPERIENCE

-
- 2003 - present **Professor**
University of Bucharest, Faculty of Physics, 405 Atomistilor, Magurele Ilfov 077125
Teaching and research (experiment and phenomenology) in Nuclear and Particle Physics, Cosmology
- 1997 - 2003 **Reader**
University of Bucharest, Faculty of Physics, 405 Atomistilor, Magurele Ilfov 077125
Teaching and research (experiment and phenomenology) in Nuclear and Particle Physics, Cosmology
- 1995 -1997 **Lecturer**
University of Bucharest, Faculty of Physics, 405 Atomistilor, Magurele Ilfov 077125
Teaching and research (experiment and phenomenology) in Nuclear and Particle Physics, Cosmology
- 1993 - 1995 **Assistent Professor**
University of Bucharest, Faculty of Physics, 405 Atomistilor, Magurele Ilfov 077125
Teaching and research (experiment and phenomenology) in Nuclear and Particle Physics, Cosmology
- 1984 -1993 **Physicist and researcher**
National Institute of Physics and Nuclear Engineering , 407 Atomistilor, Magurele
Research in Nuclear and Atomic Physics
(1990-1992: JINR Dubna)
- 1981 -1984 **Teacher of Physics**
Ilfov
Teaching physics

EDUCATION AND TRAINING

-
- 1985 - 1992 **PhD**
University of Bucharest, Faculty of Physics
PhD in Radiation Physics; Thesis title: 'Pions Absorption in He-3'
Supervisor: Professor Alexandru Mihul

1980 - 1981	MSc University of Bucharest, Faculty of Physics Atomic, Nuclear and Elementary Particle Physics	t
1976 - 1980	Bachelor of Science University of Bucharest, Faculty of Physics Physics	t

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Independent User	Independent User	Independent User	Independent User	Independent User
French	Independent User	Independent User	Independent User	Independent User	Independent User

Communication skills good communication skills gained through my experience as sales manager

Organisational / managerial skills leadership (head of former Nuclear and Atomic Chair, Faculty of Physics, principal investigator different research projects)

ADDITIONAL INFORMATION

Publications See attached list of publications

List of research grant as project coordinator/ responsible partner team

- NEPHYLAro (modul 5.2 RO_CERN) 2017.
- Dubna contracts 2014, 2015, 2016, 2017, 2018
- Detection systems for cosmic radiation using new technologies (DETCOS) PNCDI II, Partnership 82-104/2008.
- GRID techniques in astrophysics with applications to modelling and processing space data, (GRAPH), PNCDI II, Partnership UB 82-077/2008.
- Advanced studies for obtaining semiconductor detectors able to operate in intense hadron and lepton fields, with energies up to hundreds of TeV, PNCDI II/ CERES 69/2004.
- Modelling and engineering of defects in semiconductors, for obtaining radiation hard detectors for applications in the physics of particles and heavy ions produced in accelerators or by astrophysical sources, and industrial applications, PNCDI II/ MATNANTECH 219 (404)/2004, UB 219(404)/2004.
- Kinetics of defects induced in semiconductors by irradiation with particles and ions of intermediate and high energies, PNCDI I /CERES 17/2001.

Other projects

- LAGUNA (proiect FP 7: Grant Agreement No. 212343): Design of a pan European infrastructure for Large Apparatus for Grand Unification and Neutrino Astrophysics; 2008-2011.
- LAGUNA-LBNO (proiect FP 7): Design of a pan-European Infrastructure for Large Apparatus studying Grand Unification, Neutrino Astrophysics and Long Baseline Neutrino Oscillations; 2011-2014.

Co-Coordinator for study programs

- Interactii atomice, nucleare, particule elementare, astrofizica si aplicatii, IANPEAA (master, 2008-2013).
 - Fizica atomului, nucleului, particule elementare, astrofizica si aplicatii FANPEAA (master, since academic year 2013-2014).
 - Fizica (since academic year 2016-2017).

Organisational skills and competences

Elected Head of the Atomic and Nuclear Physics Chair (2008-2011)
 Elected member of the Council of the Faculty (2000-2011, 2015- present)
 Elected Member of the Dissemination Board WA105 Collaboration

Member of the Romanian Physics Society, Secretary of the Section: Nuclear Physics, Elementary Particles, Astrophysics, Cosmology (2009-2013) and President of the Section (after 2018)
 Member of the European Physics Society

ANNEXES

List of publications

Books

Ionel Lazanu, Sorina Lazanu, Chapter 7: Silicon Detectors for High Energy Physics: Physical Models and Predictions for Degradation in Radiation Fields; **pp. 261-305**, in Trends in Experimental High Energy Physics, Editors: Stevens, Jacob R., Nova Publishers NY., 2005, ISBN: 1-59454-350-X

Teaching publications

Ionel Lazanu, Introducere in fizica acceleratoarelor de particule (Note de curs), Ed. Univ. din Bucuresti, ISBN-973-575-185-2, 1997, 118 pagini

Ionel Lazanu, Spectroscopia hadronilor (note de curs), Ed. Univ. din Bucuresti, ISBN-973-575-282-4, 1998, 145 pagini

Ionel Lazanu, Cosmologie si particule elementare, Ed. Univ. din Bucuresti, ISBN-973-575-364-2, 1999, 165 pagini

Ionel Lazanu, Alexandru Mihul, Particule elementare (partea I) Ed. Univ. din Bucuresti, ISBN-973-575-528-9, 2001, 222 pagini

Ionel Lazanu, Particule elementare – probleme rezolvate, Ed. Univ. din Bucuresti, ISBN-973-575-677-3, 2002, 201 pagini

Papers in Web of Science

1. Some considerations about cosmogenic production of radioactive isotopes in Ar as target for the next neutrino experiments

Mihaela Pârnu, I. Lazanu. Dec 12, 2017.

Published in Radiat.Phys.Chem. 152 (2018) 129

2. A 4 tonne demonstrator for large-scale dual-phase liquid argon time projection chambers

B. Aimard (Annecy, LAPP) et al.. Jun 8, 2018. 61 pp.

Published in JINST 13 (2018) no.11, P11003

3. Challenges in QCD matter physics -The scientific programme of the Compressed Baryonic Matter experiment at FAIR
 Ablyazimov, T.; Abuhoza, A.; Adak, R. P.; et al.

EUROPEAN PHYSICAL JOURNAL A Vol. 53, Issue: 3, Article number: 60, 2017

4. Contribution of the electron-phonon interaction to Lindhard energy partition at low energy in Ge and Si detectors for astroparticle physics applications

Lazanu Ionel, Lazanu, Sorina

ASTROPARTICLE PHYSICS Vol. 75 Pages: 44-54, 2016

5. MODEL OF ENERGY EXCHANGE THROUGH ELECTRON-PHONON COUPLING DURING TRANSIENT PHENOMENA IN MATERIALS FOR DETECTORS

Lazanu, S.; Lazanu Ionel

ROMANIAN REPORTS IN PHYSICS Vol. 68 Issue: 3 Pages: 1015-1023, 2016

6. HYDRODYNAMIC FLOW AND PHASE TRANSITIONS IN RELATIVISTIC NUCLEAR COLLISIONS REFLECTED BY HUBBLE TYPE FIREBALL EVOLUTION

Ristea, C.; Jipa, A.; Ristea, O.; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 68 Issue: 3 Pages: 1060-1068, 2016

7. MODIFICATION OF LINDHARD ENERGY PARTITION FOR LOW ENERGY RECOILS IN GERMANIUM AND SILICON FOR DETECTORS DUE TO ELECTRON PHONON COUPLING

Lazanu, S.; Lazanu I.

ROMANIAN REPORTS IN PHYSICS Vol. 68 Issue: 2 Pages: 594-603, 2016

8. The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment

Agarwalla, S. K.; Agostino, L.; Aittola, M.; et al.

Group Author(s): LAGUNA-LBNO Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Num.: 094, 2014

9. THERMAL EFFECTS PRODUCED AT CRYOGENIC TEMPERATURES IN MATERIALS USED AS BOLOMETRIC DETECTORS FOR DARK MATTER

Lazanu, I.; Lazanu, S.

ROMANIAN REPORTS IN PHYSICS Vol. 66 Issue: 4 Pages: 963-972, 2014 2

10. Studies of radio emission from neutrino induced showers generated in rock salt

Saftoiu, A.; Sima, O.; Rebel, H.; et al.

ASTROPARTICLE PHYSICS Volume: 46 Pages: 1-13, 2013

11. Analysis of defect formation in semiconductor cryogenic bolometric detectors created by heavy dark matter

Lazanu, Ionel; Ciurea, Magdalena Lidia; Lazanu, Sorina

ASTROPARTICLE PHYSICS Volume: 44 Pages: 9-14, 2013

12. FROM LITTLE BANGS TO BIG BANG

Ristea, C.; Jipa, A.; Lazanu, I.; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 65 Issue: 4 Pag.: 1321-1327, 2013

13. The next-generation liquid-scintillator neutrino observatory LENA

Wurm, Michael; Beacom, John F.; Bezrukov, Leonid B.; et al.

ASTROPARTICLE PHYSICS Volume: 35 Issue: 11 Pages: 685-732, 2012

14. Interactions of exotic particles with ordinary matter

Lazanu, Ionel; Lazanu, Sorina

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 278 Pages: 70-77, 2012

15. SUPERHEATED DROPLET DETECTORS: THEORETICAL MODEL AND TESTS TO NEUTRON FIELD

Lazanu, Ionel; Chilug, Alexandra

ROMANIAN REPORTS IN PHYSICS Vol. 64 Issue: 4 Pages: 977-985, 2012

16. PRELIMINARY RESULTS OF NEUTRINO INTERACTIONS STUDY USING GENIE EVENT GENERATOR

Chesneanu, D.; Jipa, A.; Lazanu, I.; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 64 Issue: 3 Pages: 695-701, 2012

17. ON THE PARTICLE CORRELATIONS IN RELATIVISTIC NUCLEAR COLLISIONS

Velica, Stefania; Jipa, A.; Besliu, C.; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 64 Issue: 3 Pages: 702-714, 2012

18. CONSIDERATIONS ON A LARGE SCALE NEUTRINO DETECTOR IN A SALT DOME

Badescu, A. M.; Petrescu, T.; Saftoiu, A.; et al.

ROMANIAN REPORTS IN PHYSICS Vol.64 Issue: 3 Pages: 815-824, 2012

19. THE STUDY OF NEUTRINO-NUCLEUS INTERACTIONS USING A MONTE CARLO EVENT GENERATOR

Chesneanu, Daniela; Jipa, Alexandru; Lazanu, Ionel

UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS Vol.74 Issue: 2 Pages: 161-167, 2012

20. ABOUT THE POSSIBILITY TO MEASURE SOME STANDARD MODEL PARAMETERS AND SEARCH FOR NEW PHYSICS WITH LOW ENERGY NEUTRINOS

Lazanu, I.; Apostu, A.; Brancus, I.; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 64 Issue: 1 Pages: 24-32, 2012

21. RADIO TECHNIQUE FOR INVESTIGATING HIGH ENERGY COSMIC NEUTRINOS

Badescu, A. M.; Saftoiu, A.; Fratu, O.; et al.

ROMANIAN REPORTS IN PHYSICS Volume: 64 Issue: 1 Pages: 281-293 Published: 2012

22. SIMULATION OF ELECTROMAGNETIC SHOWERS IN SALT PERFORMED WITH GEANT4

Saftoiu, A.; Sima, O.; Lazanu, I.; et al.

ROMANIAN REPORTS IN PHYSICS Vol.64 Issue: 1 Pages: 314-324, 2012

23. Silicon detectors for the sLHC

Affolder, A.; Aleev, A.; Allport, P. P.; et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS

SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 658 Issue: 1 Pages: 11-16, 2011

24. A mobile detector for measurements of the atmospheric muon flux in underground sites

Mitrica, Bogdan; Margineanu, Romul; Stoica, Sabin; et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS

SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 654 Issue: 1 Pages: 176-183, 2011

25. Transient thermal effects in solid noble gases as materials for the detection of Dark Matter

Lazanu, Ionel; Lazanu, Sorina

JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS Issue: 7 Article Number: 013 Published: JUL 2011

26. Modelling the transient processes produced under heavy particle irradiation

Lazanu, Sorina; Lazanu, Ionel; Ciobanu, Gheorghe

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH

MATERIALS AND ATOMS Volume: 269 Issue: 4 Pages: 498-503, 2011

27. MODELLING TRANSIENT PROCESSES IN THE COMPETITIVE PHENOMENA INDUCED BY HEAVY PROJECTILES IN MATERIALS FOR DETECTORS

Lazanu, Ionel; Lazanu, Sorina

ROMANIAN REPORTS IN PHYSICS Volume: 63 Issue: 3 Pages: 707-716 Published: 2011

28. RESULTS OF UNDERGROUND DOSE RATES USING TL DETECTORS AND PRELIMINARY TL CHARACTERISTICS OF IRRADIATED SALT ROCK

Apostu, Ana Maria; Chiroasca, A. L.; Gomoiu, Claudia; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 63 Issue: 1 Pages: 220-225, 2011

29. Common ways in the description of the "classical" plasma and quark-gluon plasma

Jipa, Alexandru; Covlea, Vania; Besliu, Calin; et al.

INDIAN JOURNAL OF PHYSICS Volume: 85 Issue: 1 Pages: 167-175, 2011

30. TRANSVERSE MOMENTUM-LONGITUDINAL MOMENTUM CORRELATIONS, THERMALIZATION AND HYDRODYNAMIC FLOW IN RELATIVISTIC NUCLEAR COLLISIONS

Jipa, Alexandru; Grigorie, Claudiu; Besliu, Calin; et al.

ROMANIAN REPORTS IN PHYSICS Volume: 63 Supplement: S Pages: 1215-1235, 2011

31. Transient processes induced by heavy projectiles in silicon

Lazanu, Ionel; Lazanu, Sorina

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH

MATERIALS AND ATOMS Volume: 268 Issue: 13 Pages: 2241-2245, 2010

32. ROLE OF PHASE AND GROUP VELOCITIES IN CERENKOV RADIATION AND APPLICATIONS IN HEP EXPERIMENTS

Badea, Madalina; Lazanu, Ionel

ROMANIAN REPORTS IN PHYSICS Volume: 62 Issue: 2 Pages: 298-308, 2010

33. KINETICS OF DEFECTS IN LOW TEMPERATURE SEMICONDUCTOR DETECTORS AND DIRECT DARK MATTER SEARCH

Lazanu, Ionel; Lazanu, Sorina

ROMANIAN REPORTS IN PHYSICS Volume: 62 Issue: 2 Pages: 309-318 Published: 2010

34. STUDIES OF THE HIGH ENERGY MUON FLUX IN UNIREA SALT MINE FROM SLANIC PRAHOVA

Mitrica, B.; Margineanu, R.; Brancus, I. M.; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 62 Issue: 4 Pages: 750-757, 2010

35. Semiconductor detectors for high radiation fields: microscopic processes in materials and the control of device parameters

Lazanu, S.; Ciurea, M. L.; Lazanu, I.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 11 Issue: 12 Pages: 2150-2154, 2009

36. FROM NUCLEAR MATTER TO STRANGE QUARK MATTER - SOME CHARACTERISTICS OF THE INTERACTIONS IN ORDINARY MATTER

Lazanu, I.; Chera, M.; Iordanescu, R.; et al.

ROMANIAN REPORTS IN PHYSICS Vol. 61 Issue: 2 Pages: 215-221, 2009

37. ENERGY DEPOSITED BY RADIATION IN SOLIDS: REGISTRATION PHYSICS

Lazanu, I.; Lazanu, S.

ROMANIAN REPORTS IN PHYSICS Vol.61 Issue: 4 Pages: 689-699, 2009

38. Analytical approximations of the NIEL in semiconductor detectors for HEP

Lazanu, I.; Lazanu, S.

ROMANIAN REPORTS IN PHYSICS Vol.60 Issue: 1 Pages: 71-78, 2008

39. Correlation between ionization and displacement damage in silicon detectors for energies of interest in astroparticle and particle physics applications

Lazanu, I.; Lazanu, S. ROMANIAN REPORTS IN PHYSICS Vol. 60 Issue: 2 Pages: 381-387, 2008

40. Modelling spatial distribution of defects and estimation of electrical degradation of silicon detectors in radiation fields at high luminosity

Lazanu, S.; Lazanu, I.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS

SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 583 Issue: 1 Special Issue: SI Pages: 165-168, 2007

41. Correlation between radiation processes in silicon and long-time degradation of detectors for high-energy physics experiments

Lazanu, Sorina; Lazanu, Ionel

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS

SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 580 Issue: 1 Pages: 46-49, 2007

42. New aspects of the contribution of primary defects of silicon to long-time degradation of detectors operating in high fields of radiation

Lazanu, S.; Lazanu, I.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 6 Pages: 1839-1842, 2007

43. Primary defects in silicon: existence, characteristics, and their role after high fluence irradiation

Lazanu, S.; Lazanu, I.; Ciupina, V.; et al.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 4 Pages: 814-817, 2007

44. Silicon detectors: Damage, modelling and expected long-time behaviour in physics experiments at ultra high energy

Lazanu, Ionel; Lazanu, Sorina

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS

SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 572 Issue: 1 Pages: 297-299, 2007

45. The role of primary point defects in the degradation of silicon detectors due to hadron and lepton irradiation

Lazanu, I.; Lazanu, S.

PHYSICA SCRIPTA Volume: 74 Issue: 2 Pages: 201-207 Published: AUG 2006

46. Recent advancements in the development of radiation hard semiconductor detectors for S-LHC

Fretwurst, E; Adey, J; Al-Ajili, A; et al.

- NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 552 Issue: 1-2 Pages: 7-19, 2005
47. Development of radiation tolerant semiconductor detectors for the Super-LHC
Moll, M; Adey, J; Al-Ajili, A; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 546 Issue: 1-2 Pages: 99-107, 2005
48. Radiation-hard semiconductor detectors for SuperLHC
Bruzzi, M; Adey, J; Al-Ajili, A; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 541 Issue: 1-2 Pages: 189-201, 2005
49. Scenarios about the long-time damage of silicon as material and detectors operating beyond LHC collider conditions
Lazanu, I; Lazanu, S
PHYSICA SCRIPTA Volume: 71 Issue: 1 Pages: 31-38, 2005
50. Systematic study related to the role of initial impurities and irradiation rates in the formation and evolution of complex defects in silicon for detectors in HEP experiments
Lazanu, S; Lazanu, I
PHYSICA SCRIPTA Volume: 69 Issue: 5 Pages: 376-384, 2004
51. Microscopic modelling of defects production and their annealing after irradiation in silicon for HEP particle detectors
Lazanu, S; Lazanu, I; Bruzzi, M
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 514 Issue: 1-3 Pages: 9-17, 2003
52. Role of oxygen and carbon impurities in the radiation resistance of silicon detectors
Lazanu, S; Lazanu, I
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 5 Issue: 3 Pages: 647-652, 2003
53. Long-term damage induced by hadrons in silicon detectors for uses at the LHC-accelerator and in space missions
Lazanu, I; Lazanu, S
PHYSICA SCRIPTA Volume: 67 Issue: 5 Pages: 388-394, 2003
54. The influence of initial impurities and irradiation conditions on defect production and annealing in silicon for particle detectors
Lazanu, I; Lazanu, S
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 201 Issue: 3 Pages: 491-502, 2003
55. Radiation defects in silicon due to hadrons and leptons, their annealing and influence on detector performance
Lazanu, I; Lazanu, S
PHYSICA SCRIPTA Volume: 66 Issue: 2 Pages: 125-132, 2002
56. Theoretical calculations of the primary defects induced by pions and protons in SiC
Lazanu, S; Lazanu, I; Borchi, E; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 485 Issue: 3 Pages: 768-773 Article Number: PII S0168-9002(01)02147-7, 2002
57. Annealing of radiation-induced defects in silicon in a simplified phenomenological model
Lazanu, S; Lazanu, I
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 183 Issue: 3-4 Pages: 383-390, 2001
58. Analytical approximations of the Lindhard equations describing radiation effects
Lazanu, S; Lazanu, I
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 462 Issue: 3 Pages: 530-535, 2001
59. Comparative energy dependence of proton and pion degradation in diamond
Lazanu, I; Lazanu, S

- NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 432 Issue: 2-3 Pages: 374-378, 1999
60. Diamond degradation in hadron fields
Lazanu, S; Lazanu, I; Borchi, E
NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS Volume: 78 Pages: 683-688, 1999
61. Si, GaAs and diamond damage in pion fields with application to LHC
Lazanu, S; Lazanu, I
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 419 Issue: 2-3 Pages: 570-576, 1998
62. Theoretical study of pion damage in A(3)B(5) compounds
Lazanu, S; Lazanu, I; Biggeri, U; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 413 Issue: 2-3 Pages: 242-248, 1998
63. Theoretical calculation of diamond damage by pi(+)/pi(-) mesons in the Delta(33) resonance energy range
Lazanu, I; Lazanu, S; Borchi, E; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 406 Issue: 2 Pages: 259-266, 1998
64. Non-ionising energy deposition of pions in GaAs and Si for radiation damage studies
Lazanu, S; Lazanu, I; Biggeri, U; et al.
NUCLEAR PHYSICS B Supplement: 61B Pages: 409-414, 1998
65. Model predictions for the NIEL of high energy pions in Si and GaAs
Lazanu, S; Lazanu, I; Biggeri, U; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 394 Issue: 1-2 Pages: 232-234, 1997
66. Non-ionising energy loss of pions in thin silicon samples
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NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 388 Issue: 3 Pages: 370-374, 1997
67. RADIATION HARDNESS STUDIES ON SILICON DETECTORS IN FAST-NEUTRON FIELDS
ANGELESCU, T; CHEREMUKHIN, AE; GHETE, VM; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 357 Issue: 1 Pages: 55-63, 1995
68. A NEUTRON-IRRADIATION FACILITY FOR DAMAGE STUDIES
ANGELESCU, T; GHETE, VM; LAZANU, I; et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS
SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 345 Issue: 2 Pages: 303-307, 1994
69. INELASTIC PI(+)HE-3 INTERACTION AT 100, 120 AND 145 MEV
MIHUL, A; ANGELESCU, T; IONICA, R; et al.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS Volume: 105
Issue: 11 Pages: 1637-1647, 1992
70. PION ABSORPTION IN HE-3 AT 100, 120, AND 145MEV
ANGELESCU, T; MIHUL, A; PASCU, L; et al.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS Volume: 103
Issue: 1 Pages: 93-104, 1990
71. INELASTIC PI-HE-3 INTERACTION AT 180 MEV
ANGELESCU, T; MIHUL, A; PASCU, L; et al.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS Volume: 100
Issue: 3 Pages: 381-395, 1988
72. PION ABSORPTION ON LIGHT-NUCLEI
MIHUL, A; ANGELESCU, T; PREDA, T; et al.
REVUE ROUMAINE DE PHYSIQUE Volume: 33 Issue: 4-6 Pages: 751-755, 1988

73. GEOMETRICAL RECONSTRUCTION AND SELECTION CRITERIA OF PI-3 HE INELASTIC EVENTS DETECTED IN A HIGH-PRESSURE STREAMER CHAMBER

ANGELESCU, T; MIHUL, A; PASCU, L; et al.

REVUE ROUMAINE DE PHYSIQUE Volume: 31 Issue: 2 Pages: 125-137, 1986

74. INELASTIC PHI-+ HE-3 INTERACTION AT 145 MEV

ANGELESCU, T; LAZANU, I; MIHUL, A; et al.

NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA A-NUCLEI PARTICLES AND FIELDS Volume: 89 Issue: 2 Pages: 162-176, 1985

Proceedings

1) Re-analysis of some bubble chamber data on N-anti(N) annihilations

I. Lazanu, M. Rujoiu

Baryons'98, Proc. Of the 8th International Conference on the Structure of Baryons, Bonn, 22-26 September 1998, pages 121-126, Editors: D. W. Menze, B. Metsch, Word Scientific, ISBN 981-02-3865-7, (5 pages)

2) Influence of crystal growth technology on the tolerance to radiation of silicon for detectors at future accelerators

Lazanu, S; Lazanu, I; Ciurea, ML

27th International Semiconductor Conference (CAS) Location: Sinaia, ROMANIA Date: OCT 04-06, 2004, Sponsor(s): Natl Inst Res & Dev Microtechnol; Romanian Acad; Electrochem Soc Inc; IEEE; IEEE Elect Devices Soc; Minist Educ & Res; IEEE Romania Sect; Elect Devices Chapter

2004 International Semiconductor Conference, Vols 1and 2, Proceedings Pages: 419-422 (4 pages) Published: 2004

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