

12th International Conference on Nucleus-Nucleus Collisions 2015

EPJ Web of Conferences Volume 117 (2016)

Catania, Italy
21 - 26 June 2015

Part 1 of 2

Editors:

**V. Greco
M. La Cognata
S. Pirrone**

**F. Rizzo
C. Spitaleri**

ISBN: 978-1-5108-2405-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

This work is licensed under a Creative Commons Attribution license:
<http://creativecommons.org/licenses/by/2.0/>

You are free to:

Share – copy and redistribute the material in any medium or format.

Adapt – remix, transform, and build upon the material for any purpose, even commercial.

The licensor cannot revoke these freedoms as long as you follow the license terms.

Under the following terms:

You must give appropriate credit, provide a link to the license, and indicate if changes were made.

You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. The copyright is retained by the corresponding authors.

Printed by Curran Associates, Inc. (2016)

For additional information, please contact EDP Sciences – Web of Conferences
at the address below.

EDP Sciences – Web of Conferences
17, Avenue du Hoggar
Parc d'Activité de Courtabœuf
BP 112
F-91944 Les Ulis Cedex A
France

Phone: +33 (0) 1 69 18 75 75

Fax: +33 (0) 1 69 28 84 91

contact-edps@webofconferences.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PART 1

SUPERHEAVY-ELEMENT SPECTROSCOPY: CORRELATIONS ALONG ELEMENT 115	
DECAY CHAINS	1
<i>Rudolph D., Forsberg U., Sarmiento L.G., Golubev P., Fahlander C.</i>	
QUASIFISSION DYNAMICS IN TDHF	13
<i>Umar A.S., Oberacker V.E., Simenel C.</i>	
A NOVEL APPROACH TO THE ISLAND OF STABILITY OF SUPER-HEAVY ELEMENTS	
SEARCH	21
<i>Wieloch A., Adamczyk M., Barbui M., Blando N., Giuliani G., Hagel K., Kim E-J., Kowalski S., Majka Z., Natowitz J., Pelczar K., Planeta R., Schmidt K., Sosin Z., Wuenschel S., Zelga K., Zheng H.</i>	
RECENT EXPERIMENTS IN INVERSE KINEMATICS WITH THE MAGNETIC SPECTROMETER PRISMA	30
<i>Fioretto E., Corradi L., Montanari D., Szilner S., Pollarolo G., Galtarossa F., Ackermann D., Montagnoli G., Scarlassara F., Stefanini A.M., Courtin S., Goasduff A., Haas F., Jelavic-Malenica D., Michelagnoli C., Mijatovic T., Soic N., Ur C., Valiente-Dobon J.J.</i>	
CHIRAL NUCLEON-NUCLEON FORCES IN NUCLEAR STRUCTURE CALCULATIONS	36
<i>Coraggio L., Gargano A., Holt J. W., Itaco N., Machleidt R., Marcucci L. E., Sammarruca F.</i>	
NUCLEAR REACTIONS AT INTERMEDIATE ENERGIES	46
<i>Shyam Radhey</i>	
EMISSION OF NEUTRINO-ANTINEUTRINO PAIRS BY HADRONIC BREMSSTRAHLUNG PROCESSES	56
<i>Bacca Sonia, Sharma Rishi, Schwenk Achim</i>	
HERMES RESULTS ON 3D IMAGING OF THE NUCLEON	64
<i>Pappalardo Luciano L.</i>	
SEARCH FOR THE η-MESIC HELIUM BOUND STATE WITH THE WASA-AT-COSY FACILITY	72
<i>Skurzok Magdalena, Krzemien Wojciech, Rundel Oleksandr, Moskal Pawel</i>	
ELASTIC NUCLEON-DEUTERON SCATTERING AND BREAKUP WITH CHIRAL FORCES	78
<i>Witala Henryk, Golak Jacek, Skibinski Roman, Topolnicki Kacper</i>	
COLLECTIVE DYNAMICS, FLUCTUATIONS AND INSTABILITIES IN RELATIVISTIC HEAVY-ION COLLISIONS	84
<i>Csernai László P.</i>	
AN OVERVIEW OF RESONANCE MEASUREMENTS AT THE ALICE EXPERIMENT	91
<i>Knospe A. G.</i>	
(ANTI)HYPERTRITON LIFETIME PUZZLE	99
<i>Ma Yu-Gang</i>	
SHEAR VISCOSITY OF QGP AND THE ANISOTROPIC FLOWS WITHIN AN EVENT BY EVENT TRANSPORT APPROACH	106
<i>Plumari S., Guardo G. L., Puglisi A., Scardina F., Greco V.</i>	
PARTICLE PRODUCTION IN P-PB COLLISIONS WITH ALICE AT THE LHC	114
<i>Toia Alberica</i>	
LIGHT FLAVOUR HADRON PRODUCTION IN THE ALICE EXPERIMENT AT LHC	122
<i>Badalà Angela</i>	
LIGHT FRAGMENTS FROM (C + BE) INTERACTIONS AT 0.6 GEV/NUCLEON	128
<i>Abramov B.M., Alekseev P.N., Borodin Yu.A., Bulychjov S.A., Dukhovskoy I.A., Khanov A.I., Krutenkova A.P., Kulikov V.V., Martemjanov M.A., Mashnik S.G., Matsyuk M.A., Turdakina E.N., Zarubin P.I.</i>	
MCNP6 SIMULATION OF LIGHT AND MEDIUM NUCLEI FRAGMENTATION AT INTERMEDIATE ENERGIES	134
<i>Mashnik Stepan G., Kerby Leslie M.</i>	
OVERVIEW OF JET PHYSICS WITH ALICE AT THE LHC	141
<i>Wang Mengliang</i>	
HADRONIZATION VIA COALESCENCE AT RHIC AND LHC	147
<i>Minissale V., Scardina F., Greco V.</i>	
ANALYSIS OF ANGULAR DISTRIBUTION OF FRAGMENTS IN RELATIVISTIC HEAVY-ION COLLISIONS BY QUANTUM MOLECULAR DYNAMICS	153
<i>Ogawa Tatsuhiko, Sato Tatsuhiko, Hashimoto Shintaro, Niita Koji</i>	

EVOLUTION OF HEAVY QUARK DISTRIBUTION FUNCTION ON QUARK-GLUON PLASMA: USING THE ITERATIVE LAPLACE TRANSFORM METHOD.....	161
<i>Pari Sharareh Mehrabi, Javidan Kurosh, Shahri Fatemeh Taghavi</i>	
SHEAR VISCOSITY TO ELECTRIC CONDUCTIVITY RATIO OF THE QGP.....	169
<i>Puglisi A., Plumari S., Greco V.</i>	
MODELLING EARLY STAGES OF RELATIVISTIC HEAVY-ION COLLISIONS.....	175
<i>Ruggieri M., Puglisi A., Oliva L., Plumari S., Scardina F., Greco V.</i>	
HEAVY QUARK DYNAMICS IN THE QGP: TOWARDS A SOLUTION OF THE R_{AA} AND V_2 PUZZLE	182
<i>Scardina F., Das S. K., Plumari S., Greco V.</i>	
A POLARIZATION IN AN EXACT FLUID DYNAMICAL MODEL FOR HEAVY-ION COLLISIONS	188
<i>Xie Yilong</i>	
OVERVIEW OF ANISOTROPIC FLOW MEASUREMENTS FROM ALICE.....	192
<i>Zhou You</i>	
IS HADRONIC FLOW PRODUCED IN P-PB COLLISIONS AT THE LARGE HADRON COLLIDER?	198
<i>Zhou You, Zhu Xiangrong, Li Pengfei, Song Huichao</i>	
INTERPLAY BETWEEN COLLECTIVE AND SINGLE PARTICLE EXCITATIONS AROUND NEUTRON-RICH DOUBLY-MAGIC NUCLEI	202
<i>Leoni S.</i>	
NUCLEAR SHAPE PHASE TRANSITIONS.....	212
<i>Vretenar D.</i>	
SPATIAL PROPERTIES OF PAIRING AND QUARTETING CORRELATIONS IN NUCLEI.....	222
<i>Baran V.V., Delion D.S.</i>	
EXTRACTING THE CROSS SECTION ANGULAR DISTRIBUTIONS FOR ^{15}C HIGH-ENERGY RESONANCE EXCITED VIA THE ($^{18}\text{O}, ^{16}\text{O}$) TWO-NEUTRON TRANSFER REACTION	227
<i>Carbone D., Agodi C., Cappuzzello F., Cavallaro M., Foti A., Linares R.</i>	
INTERPLAY BETWEEN PROTON-NEUTRON PAIRING AND DEFORMATION IN SELF- CONJUGATED MEDIUM MASS NUCLEI.....	233
<i>Gambacurta Danilo, Lacroix Denis</i>	
LOW-LYING 1^- AND 2^+ STATES IN ^{124}Sn VIA INELASTIC SCATTERING OF ^{17}O	239
<i>Pellegrini L., Bracco A., Crespi F.C.L., the AGATA Collaboration</i>	
G-FACTOR MEASUREMENTS OF ISOMERIC STATES IN ^{174}W.....	245
<i>Rocchini M., Nannini A., Benzoni G., Melon B., John P.R., Ur C.A., Avigo R., Bazzacco D., Blasi N., Bocchi G., Bottoni S., Bracco A., Camera F., Ceruti S., Crespi F.C.L., Georgiev G., Giaz A., Gottardo A., Leoni S., Menegazzo R., Mengoni D., Michelagnoli C., Million B., Modamio V., Morales A.I., Napoli D.R., Ottanelli M., Pellegrini L., Perego A., Valiente-Dobon J.J., Wieland O.</i>	
THEORETICAL STUDIES OF POSSIBLE TOROIDAL HIGH-SPIN ISOMERS IN THE LIGHT- MASS REGION	251
<i>Staszczak Andrzej, Wong Cheuk-Yin</i>	
$^{16}\text{O} + ^{16}\text{O}$ MOLECULAR STRUCTURES OF POSITIVE- AND NEGATIVE-PARITY SUPERDEFORMED BANDS IN ^{34}S	257
<i>Taniguchi Yasutaka</i>	
SUB-BARRIER BACKWARD QUASIELASTIC SCATTERING: A PROBE OF THE HEXADECAPOLE DEFORMATION	263
<i>Zhang H.Q., Lin C.J., Jia H.M., Yang L., Xu X.X., Yang F., Wu Z.D., Liu Z.H., Ma N.R., Sun L.J., Wang D.X.</i>	
CLUSTER ROTATIONAL BANDS IN ^{11}B	269
<i>Danilov A.N., Demyanova A.S., Ogloblin A.A., Belyaeva T.L., Goncharov S.A., Trzaska W.</i>	
STATES OF ^{13}C WITH ABNORMAL RADII.....	273
<i>Demyanova A.S., Ogloblin A.A., Danilov A.N., Goncharov S.A., Belyaeva T.L., Sobolev Yu.G., Khlebnikov S.V., Burtebaev N., Trzaska W., Heikkinen P., Tyurin G.P., Jansetov D., Gurov Yu.B.</i>	
EFFECT OF DEFORMATIONS AND ORIENTATIONS IN ^{100}Sn DAUGHTER RADIOACTIVITY	278
<i>Sawhney Gudveen, Sharma Kanishka, Sharma Manoj K., Gupta Raj K.</i>	
TRIAXIALITY OF THE GROUND STATES IN THE ^{174}W	282
<i>Ya Tu, Chen Y.S., Liu L., Gao Z.C.</i>	
NUCLEAR PHYSICS AND PARTICLE THERAPY	288
<i>Battistoni G.</i>	
HIGH INTENSITY X/γ PHOTON BEAMS FOR NUCLEAR PHYSICS AND PHOTONICS	298
<i>Serafini L., Alesini D., Bacci N., Bliss N., Cassou K., Curatolo C., Drebot I., Dupraz K., Giribono A., Petrillo V., Palumbo L., Vaccarezza C., Variola A., Zomer F.</i>	

THE MUON PORTAL PROJECT: A LARGE-AREA TRACKING DETECTOR FOR MUON TOMOGRAPHY	309
<i>Riggi F.</i>	
LASER-BASED ACCELERATION FOR NUCLEAR PHYSICS EXPERIMENTS AT ELI-NP	317
<i>Tesileanu O., Asavei Th., Dancus I., Gales S., Negoita F., Turcu I.C.E., Ursescu D., Zamfir N.V.</i>	
A COMPTON CAMERA PROTOTYPE FOR PROMPT GAMMA MEDICAL IMAGING	325
<i>Thirolf P.G., Aldawood S., Böhmer M., Bortfeldt J., Castelhana I., Dedes G., Fiedler F., Gernhäuser R., Golnik C., Helmbrecht S., Hueso-González F., Kolff H. v.d., Kormoll T., Lang C., Liprandi S., Lutter R., Marinšek T., Maier L., Pausch G., Petzoldt J., Römer K., Schaart D., Parodi K.</i>	
NUCLEAR CONTRIBUTION INTO SINGLE-EVENT UPSET IN 3D ON-BOARD ELECTRONICS AT MODERATE ENERGY COSMIC PROTON IMPACT	334
<i>Chechenin N. G., Chuvilskaya T. V., Shirokova A. A.</i>	
MEASUREMENT OF SECONDARY PARTICLE PRODUCTION INDUCED BY PARTICLE THERAPY ION BEAMS IMPINGING ON A PMMA TARGET	340
<i>Toppi M., Battistoni G., Bellini F., Collamati F., De Lucia E., Durante M., Faccini R., Frallicciardi P.M., Marafini M., Mattei I., Morganti S., Muraro S., Paramatti R., Patera V., Pinci D., Piersanti L., Rucinski A., Russomando A., Sarti A., Sciubba A., Senzacqua M., Solfaroli Camillocci E., Traini G., Voena C.</i>	
STUDY OF NUCLEAR REACTIONS IN LASER PLASMAS AT FUTURE ELI-NP FACILITY	346
<i>Lanzalone G., Altana C., Anzalone A., Cappuzzello F., Cavallaro M., Gizzi L. A., Labate L., Lamia L., Mascali D., Muoio A., Negoita F., Odorici F., Petrascu H., Trifirò A., Trimarchi M., Tudisco S.</i>	
DETERMINATION OF INTEGRAL CROSS SECTIONS OF ³H IN AL FOILS MONITORS IRRADIATED BY PROTONS WITH ENERGIES RANGING FROM 40 TO 2600 MEV	350
<i>Titarenko Yu.E., Batyaev V.F., Chauzova M.V., Chauzova M.V., Kashirin I.A., Malinovskiy S.V., Pavlov K.V., Rogov V.I., Titarenko A.Yu., Zhivun V.M., Mashnik S.G., Stankovskiy A.Yu.</i>	
CONTINUUM SPECTROSCOPY OF LIGHT NUCLEI	354
<i>Charity R. J.</i>	
REACTION THEORY: STATUS AND PERSPECTIVES	364
<i>Moro A.M., Gómez-Camacho J.</i>	
REACTION STUDIES WITH LOW-ENERGY WEAKLY-BOUND BEAMS AT INFN-LNS	374
<i>Di Pietro A., Fernandez-Garcia J.P., Figuera P., Fisichella M., Lattuada M., Torresi D., Zadro M.</i>	
SELF-CONSISTENT DESCRIPTION OF DEFORMED NUCLEI AT THE PROTON DRIP LINE	382
<i>Ferreira Lidia S., Maglione Enrico, Ring Peter</i>	
A CONSISTENT FOUR-BODY CDCC MODEL OF LOW-ENERGY REACTIONS: APPLICATION TO ⁹BE+²⁰⁸PB	390
<i>Hussein M. S., Descouvemont P., Canto L. F.</i>	
⁷BE- AND ⁸B-REACTION DYNAMICS AT COULOMB BARRIER ENERGIES	398
<i>Mazzocco M., Boiano A., Boiano C., La Commara M., Manea C., Parascandolo C., Pierroutsakou D., Signorini C., Strano E., Torresi D., Yamaguchi H., Kahl D., Acosta L., Di Meo P., Fernandez-Garcia J.P., Glodariu T., Grebosz J., Guglielmetti A., Imai N., Hirayama Y., Ishiyama H., Iwasa N., Jeong S.C., Jia H.M., Keeley N., Kim Y.H., Kimura S., Kubono S., Lay J.A., Lin C.J., Marquinez-Duran G., Martel I., Miyatake H., Mukai M., Nakao T., Nicoletto M., Pakou A., Rusek K., Sakaguchi Y., Sánchez-Benítez A.M., Sava T., Sgouros O., Stefanini C., Soramel F., Soukeras V., Stiliaris E., Stroe L., Teranishi T., Toniolo N., Wakabayashi Y., Watanabe Y.X., Yang L., Yang Y.Y.</i>	
PROBING NUCLEON-NUCLEON CORRELATIONS IN HEAVY-ION TRANSFER REACTIONS	406
<i>Szilner S.</i>	
USING CHIMERA DETECTOR AT LNS FOR GAMMA-PARTICLE COINCIDENCES	414
<i>Cardella G., Acosta L., Auditore L., Chatterjee M.B., Castoldi A., De Filippo E., Dell'Aquila D., De Luca S., Gnoffo B., Guazzoni C., Francalanza L., Lanzalone G., Lombardo I., Martorana N., Norella S., Pagano A., Pagano E.V., Papa M., Pirrone S., Politi G., Quattrocchi L., Rizzo F., Russotto P., Trifirò A., Trimarchi M., Verde G., Vigilante M.</i>	
PRELIMINARY STUDY OF THE ¹⁰LI NUCLEUS VIA ONE-NEUTRON TRANSFER	420
<i>Cavallaro M., De Napoli M., Cappuzzello F., Agodi C., Bondi M., Carbone D., Cunsolo A., Davids B., Davinson T., Foti A., Galinski N., Kanungo R., Lenske H., Orrigo S.E.A., Ruiz C., Sanetullaev A.</i>	
PROJECTILE DEFORMATION EFFECTS IN THE BREAKUP OF ³⁷MG	426
<i>Shubhchintak, Chatterjee R., Shyam R.</i>	
STUDY OF CLUSTER STRUCTURES IN ¹⁰BE AND ¹⁶C NEUTRON-RICH NUCLEI VIA BREAK-UP REACTIONS	433
<i>Dell'Aquila D., Acosta L., Amorini F., Andolina R., Auditore L., Berceanu I., Cardella G., Chatterjee M.B., De Filippo E., Francalanza L., Gnoffo B., Grzeszczuk A., Lanzalone G., Lombardo I., Martorana N., Minniti T., Pagano A., Pagano E.V., Papa M., Pirrone S., Politi G., Pop A., Porto F., Quattrocchi L., Rizzo F., Rosato E., Russotto P., Trifirò A., Trimarchi M., Verde G., Vigilante M.</i>	
EFFECTS OF COUPLING TO BREAKUP CHANNELS IN REACTIONS INDUCED BY WEAKLY BOUND AND HALO NUCLEI	440
<i>Fernández-García J. P., Di Pietro A., Figuera P., Fisichella M., Lattuada M., Moro A. M., Musumarra A., Pellegriti M. G., Scuderi V., Torresi D., Zadro M.</i>	

MEASURING FUSION EXCITATION FUNCTIONS WITH RIBS USING THE STACKED TARGET TECHNIQUE: PROBLEMS AND POSSIBLE SOLUTIONS	446
<i>Fischella M., Shotter A. C., Di Pietro A., Figuera P., Lattuada M., Marchetta C., Privitera V., Romano L., Ruiz C., Zadro M.</i>	
CLUSTER THOMAS-EHRMAN SHIFT IN ^{10}Be-^{10}C	452
<i>Ito Makoto</i>	
COUPLED-REARRANGEMENT-CHANNELS CALCULATION OF THE THREE-BODY SYSTEM UNDER THE ABSORBING BOUNDARY CONDITION	458
<i>Iwasaki M., Otani R., Ito M., Kamimura M.</i>	
EVALUATION OF INCLUSIVE BREAKUP CROSS SECTIONS IN REACTIONS INDUCED BY WEAKLY-BOUND NUCLEI WITHIN A THREE-BODY MODEL	464
<i>Lei Jin, Moro Antonio M.</i>	
MICROSCOPIC NUCLEAR FORM FACTOR FOR THE PYGMY DIPOLE RESONANCE	470
<i>Lanza E.G., Vitturi A., Andrés M.V., Catara F.</i>	
IMPORTANCE OF THE SINGLE-PARTICLE CONTINUUM IN BCS PAIRING WITH A PSEUDOSTATE BASIS	476
<i>Lay J. A., Alonso C. E., Fortunato L., Vitturi A.</i>	
COMPETITION OF β-DELAYED PROTONS AND β-DELAYED γ RAYS IN ^{56}Zn AND THE EXOTIC β-DELAYED γ-PROTON DECAY	481
<i>Orrigo S. E. A., Rubio B., Fujita Y., Blank B., Gelletly W., Agramunt J., Algora A., Ascher P., Bilgier B., Cáceres L., Cakirli R. B., Fujita H., Ganioglu E., Gerbaux M., Giovinazzo J., Grévy S., Kamalou O., Kozler H. C., Kucuk L., Kurtukian-Nieto T., Molina F., Popescu L., Rogers A. M., Susoy G., Stodel C., Suzuki T., Tamii A., Thomas J. C.</i>	
α CLUSTER STRUCTURES IN UNBOUND STATES OF ^{19}Ne	487
<i>Otani R., Iwasaki M., Ito M.</i>	
THREE-BODY BREAKUP OF ^{22}C	493
<i>Pinilla E. C., Descouvemont P.</i>	
ELASTIC, INELASTIC AND INCLUSIVE ALPHA CROSS SECTIONS IN $^6\text{Li}+^{112}\text{Sn}$ SYSTEM	499
<i>Chattopadhyay D., Santra S., Pal A., Kundu A., Nayak B. K., Mahata K., Ramachandran K., Tripathi R., Parkar V. V., Sodaye S., Sarkar D., Pandey B., Kaur G.</i>	
^9Be SCATTERING WITHIN A FOUR-BODY CONTINUUM-DISCRETIZED COUPLED-CHANNELS FRAMEWORK	505
<i>Casal J., Rodríguez-Gallardo M., Arias J. M.</i>	
TRANSFER TO THE CONTINUUM CALCULATIONS OF QUASIFREE (P,PN) AND (P,2P) REACTIONS	509
<i>Gomez-Ramos M., Moro A.M.</i>	
ANALYSIS OF REACTION SIZE BY METHOD OF SCATTERING RADIUS	513
<i>Ito M., Otani R., Iwasaki M., Tomita M.</i>	
^8Be AND ^9B NUCLEI IN DISSOCIATION OF RELATIVISTIC ^{10}C AND ^{11}C NUCLEI	517
<i>Artemenkov D. A., Bradnova V., Firu E., Kornegrutza N. K., Haiduc M., Mamatkulov K. Z., Kattabekov R. R., Neagu A., Rukoyatkin P. A., Rusakova V. V., Stanoeva R., Zaitsev A. A., Zarubin P. I., Zarubina I. G.</i>	
CLUSTER DYNAMICS AND SYMMETRIES IN LIGHT NUCLEI	521
<i>Freer Martin</i>	
PAIRING EFFECTS IN NUCLEAR DYNAMIC	531
<i>Lacroix Denis, Scamps Guillaume, Tanimura Yusuke</i>	
CLUSTER PRODUCTION WITHIN TRANSPORT THEORY	541
<i>Ono Akira</i>	

PART 2

CONSTRAINTS ON THE ASYMMETRIC EQUATION OF STATE FROM HEAVY-ION COLLISIONS	551
<i>Yennello Sherry, McIntosh Alan, Heilborn Lauren</i>	
NEUTRON STARS: COSMIC LABORATORIES FOR MATTER UNDER EXTREME CONDITIONS	562
<i>Bombaci Ignazio, Logoteta Domenico</i>	
EXCITED NUCLEAR MATTER AT FERMI ENERGIES: FROM TRANSPORT PROPERTIES TO THE EQUATION OF STATE	570
<i>Lopez O., Durand D., Lehaut G.</i>	
CLUSTERS IN NEUTRON-RICH LIGHT NUCLEI	577
<i>Jelavic Malenica D., Milin M., Di Pietro A., Figuera P., Lattuada M., Miljanic D., Musumarra A., Pellegriti M.G., Prepelec L., Scuderi V., Skukan N., Soic N., Torresi D., Uroic M.</i>	

DYNAMICAL DESCRIPTION OF HEAVY-ION COLLISIONS AT FERMI ENERGIES	585
<i>Napolitani P., Colonna M.</i>	
PROPERTIES OF NUCLEAR MATTER AND FINITE NUCLEI WITH FINITE RANGE SIMPLE EFFECTIVE INTERACTION	593
<i>Routray T. R., Viñas X., Centelles M., Robledo L., Pattnaik S. P., Behera B.</i>	
THE ASY-EOS EXPERIMENT AT GSI	605
<i>Russotto P., Chartier M., Cozma M.D., De Filippo E., Le Fèvre A., Gannon S., Gašparic I., Kiš M., Kupny S., Leifels Y., Lemmon R.C., Li Q., Lukasiak J., Marini P., Pawlowski P., Trautmann W., Acosta L., Adamczyk M., Al-Ajlan A., Al-Garawi M., Al-Homaidhi S., Amorini F., Auditore L., Aumann T., Ayyad Y., Baran V., Basrak Z., Bassini R., Benlliure J., Boiano C., Boisjoli M., Boretzky K., Brzychczyk J., Budzanowski A., Cardella G., Cammarata P., Chajeczi Z., Chbihi A., Colonna M., Czech B., Di Toro M., Famiano M., Greco V., Grassi L., Guazzoni C., Guazzoni P., Heil M., Heilborn L., Introzzi R., Isobe T., Kezzar K., Krasznahorkay A., Kurz N., La Guidara E., Lanzalone G., Lasko P., Lombardo I., Lynch W.G., Matthews Z., May L., Minniti T., Mostazo M., Pagano A., Papa M., Pirrone S., Pleskac R., Politi G., Porto F., Reifarth R., Reisdorf W., Riccio F., Rizzo F., Rosato E., Rossi D., Santoro S., Simon H., Skwirzynska I., Sosin Z., Stuhl L., Trifirò A., Trimarchi M., Tsang M.B., Verde G., Veselsky M., Vigilante M., Wieloch A., Wigg P., Wolter H.H., Wu P., Yennello S., Zambon P., Zetta L., Zoric M.</i>	
IMPACT OF FOCK TERMS ON THE ISOSPIN PROPERTIES OF NUCLEAR MATTER	613
<i>Sun Bao Yuan, Zhao Qian, Long Wen Hui</i>	
THREE-BODY FORCE EFFECT ON THE PROPERTIES OF NEUTRON-RICH NUCLEAR MATTER	621
<i>Zuo Wei, Bombarci Ignazio, Lombardo Umberto</i>	
STUDY OF ¹²C EXCITED STATES DECAYING INTO THREE A PARTICLES USING THE THICK TARGET INVERSE KINEMATIC TECHNIQUE	629
<i>Barbui M., Hagel K., Gauthier J., Wuenschel S., de Souza R. T., Hudan S., Fang D., Goldberg V.Z., Zheng H., Giuliani G., Rapisarda G., Kim E.-J., Liu X., Natowitz J.B.</i>	
ALPHA-PARTICLE CLUSTERING IN EXCITED EXPANDING SELF-CONJUGATE NUCLEI	635
<i>Borderie B., Raduta Ad. R., Ademard G., Rivet M. F., De Filippo E., Geraci E., Le Neindre N., Cardella G., Lanzalone G., Lombardo I., Lopez O., Maiolino C., Pagano A., Pirrone S., Politi G., Rizzo F., Russotto P.</i>	
IMPACT OF PAIRING ON THERMODYNAMICAL PROPERTIES OF STELLAR MATTER	642
<i>Burrello S., Aymard F., Colonna M., Gulminelli F., Raduta Ad. R.</i>	
IMPACT OF THE IN-MEDIUM CONSERVATION OF ENERGY ON THE π/π^+ MULTIPLICITY RATIO	649
<i>Cozma M.D.</i>	
SENSITIVITY OF N/Z RATIO IN PROJECTILE BREAK-UP OF ISOBARIC SYSTEMS	655
<i>De Filippo E., Pagano A., Russotto P., Acosta L., Auditore L., Baran V., Cap T., Cardella G., Colonna M., Francalanza L., Gnoffo B., Lanzalone G., Lombardo I., Marquinez-Durán G., Maiolino C., Minniti T., Norella S., Pagano E.V., Papa M., Piasecki E., Pirrone S., Politi G., Porto F., Quattrocchi L., Rizzo F., Rosato E., Trifirò A., Trimarchi M., Verde G., Vigilante M., Siwek-Wilczynska K., Wilczynski J.</i>	
FROM FEMTONOVA TO SUPERNOVA: HEAVY-ION COLLISIONS AND THE SUPERNOVA EQUATION OF STATE	662
<i>Hagel K., Hempel M., Natowitz J. B., Röpke G., Typel S., Wuenschel S., Wada R., Barbui M., Schmidt K.</i>	
PROGRESS IN CONSTRAINING THE ASYMMETRY DEPENDENCE OF THE NUCLEAR CALORIC CURVE	670
<i>McIntosh Alan B., Yennello Sherry J.</i>	
STUDY OF TWO- AND MULTI-PARTICLE CORRELATIONS IN ¹²C+²⁴MG AND ¹²C+²⁰⁸PB REACTIONS AT E=35 AMEV	677
<i>Quattrocchi L., Acosta L., Amorini F., Anzalone A., Auditore L., Berceanu I., Cardella G., Chbihi A., De Filippo E., Dell' Aquila D., Francalanza L., Gnoffo B., Grzeszczuk A., Lanzalone G., Lombardo I., Martel I., Minniti T., Norella S., Pagano A., Pagano E.V., Papa M., Pirrone S., Politi G., Porto F., Rizzo F., Rosato E., Russotto P., Trifirò A., Trimarchi M., Verde G., Veselsky M., Vigilante M.</i>	
PROPERTIES OF EXCITED A = 40 NUCLEAR SYSTEMS WITH VARYING MATTER COMPOSITION	684
<i>Schmidt K., Natowitz J.B., Barbui M., Hagel K., Bonasera A., Giuliani G., Zheng H., Rodrigues M., Wada R., Huang M., Botosso C., Kowalski S.</i>	
EXCITED STATES OF ²⁶AL STUDIED VIA THE REACTION ²⁷AL(D,T)	691
<i>Srivastava Vishal, Bhattacharya C., Rana T.K., Manna S., Kundu S., Bhattacharya S., Banerjee K., Roy P., Pandey R., Mukherjee G., Ghosh T.K., Meena J.K., Roy T., Chaudhuri A., Sinha M., Saha A.K., Asgar Md. A., Dey A., Roy Subinit, Moin Shaikh Md.</i>	
CHARGE-CHANGING CROSS SECTION MEASUREMENT OF NEUTRON-RICH CARBON ISOTOPES AT 50 AMEV	697
<i>Tran D.T., Nguyen T.T., Tanihata I., Ong H.J., Fukuda M., Aoi N., Ayyad Y., Sakaguchi H., Tanaka J., Chan P.Y., Hoang T.H., Hashimoto T., Ideguchi E., Inoue A., Kawabata T., Khiem L.H., Matsuta K., Mihara M., Momota S., Nagae D., Ozawa A., Ren P.P., Terashima S., Wada R., Lin W.P., Yamamoto T.</i>	

HIGH-SPIN MOLECULAR RESONANCES IN $^{12}\text{C} + ^{12}\text{C}$	703
<i>Uegaki E., Abe Y.</i>	
INFLUENCE OF SKYRME-TYPE INTERACTION ON HICS OBSERVABLES	709
<i>Zhang Yingxun, Tsang M.B., Li Zhuxia, Liu Hang</i>	
EFFECTS OF SYMMETRY ENERGY AND MOMENTUM DEPENDENT INTERACTION ON LOW-ENERGY REACTION MECHANISMS	715
<i>Zheng H., Colonna M., Baran V., Burrello S.</i>	
ELASTIC SCATTERING OF $^9\text{Be} + ^{51}\text{V}$ NEAR THE COULOMB BARRIER	721
<i>Morales-Rivera J.C., Martinez-Quiroz E., Belyaeva T.L., Aguilera E.F., Lizcano D., Amador-Valenzuela P.</i>	
DYNAMICAL EFFECTS IN FISSION INVESTIGATED AT HIGH EXCITATION ENERGY	726
<i>Benlliure J.</i>	
LOW-ENERGY FUSION DYNAMICS OF WEAKLY BOUND NUCLEI: A TIME DEPENDENT PERSPECTIVE	742
<i>Diaz-Torres A., Boselli M.</i>	
PRESENT STATUS OF COUPLED-CHANNELS CALCULATIONS FOR HEAVY-ION SUBBARRIER FUSION REACTIONS	752
<i>Hagino K., Yao J.M.</i>	
SUB- AND NEAR-BARRIER FUSION REACTIONS EXPERIMENTAL RESULTS	762
<i>Montagnoli G.</i>	
BREAKUP LOCATIONS: INTERTWINING EFFECTS OF NUCLEAR STRUCTURE AND REACTION DYNAMICS	772
<i>Dasgupta M., Simpson E. C., Luong D. H., Kalkal Sunil, Cook K. J., Carter I. P., Hinde D. J., Williams E.</i>	
SYSTEMATIC STUDY OF QUASIFISSION CHARACTERISTICS AND TIMESCALES IN HEAVY ELEMENT FORMATION REACTIONS	780
<i>Hinde D.J., Williams E., Mohanto G., Simenel C., Dasgupta M., Wakhle A., Carter I.P., Cook K.J., Jeung D.Y., Luong D.H., Palshekar C.S., Prasad E., Rafferty D.C., du Rietz R., Simpson E.C.</i>	
DESCRIPTION OF THE FUSION-FISSION REACTIONS IN THE FRAMEWORK OF DINUCLEAR SYSTEM CONCEPTION	788
<i>Kalendarov Sh. A., Adamian G. G., Antonenko N. V., Wieleczko J.P.</i>	
THE INFLUENCE OF THE 2-NEUTRON ELASTIC TRANSFER ON THE FUSION OF $^{42}\text{Ca} + ^{40}\text{Ca}$	796
<i>Stefanini A.M., Montagnoli G., Corradi L., Fioretto E., Goasduff A., Grebosz J., Haas F., Mazzocco M., Scarlassara F., Strano E.</i>	
STUDY OF THE $^{20,22}\text{Ne} + ^{20,22}\text{Ne}$ AND $^{10,12,13,14,15}\text{C} + ^{12}\text{C}$ FUSION REACTIONS WITH MUSIC	804
<i>Avila M. L., Rehm K. E., Almaraz-Calderon S., Carnelli P. F. F., DiGiovine B., Esbensen H., Hoffman C. R., Jiang C. L., Kay B. P., Lai J., Nusair O., Pardo R. C., Santiago-Gonzalez D., Talwar R., Ugalde C.</i>	
SUB-BARRIER FUSION AND TRANSFERS IN THE $^{40}\text{Ca} + ^{58,64}\text{Ni}$ SYSTEMS	810
<i>Bourgoin D., Courtin S., Haas F., Goasduff A., Stefanini A.M., Montagnoli G., Montanari D., Corradi L., Huiming J., Scarlassara F., Fioretto E., Simenel C., Rowley N., Szilner S., Mijatovic T.</i>	
FUSION REACTIONS OF $^{58,64}\text{Ni} + ^{124}\text{Sn}$	817
<i>Galtarossa F., Jiang C.L., Stefanini A.M., Esbensen H., Rehm K.E., Almaraz Calderon S., Avila M.L., Back B.B., Bourgoin D., Corradi L., Courtin S., Fioretto E., Goasduff A., Haas F., Mazzocco M., Montanari D., Montagnoli G., Mijatovic T., Sagaidak R., Santiago-Gonzalez D., Scarlassara F., Strano E., Szilner S.</i>	
ISOSPIN INFLUENCE ON THE DECAY MODES OF THE SYSTEMS PRODUCED IN THE $^{78,86}\text{Kr} + ^{40,48}\text{Ca}$ REACTIONS AT 10 AMEV	824
<i>Gnoffo B., Pirrone S., Politi G., La Commara M., Wieleczko J.P., De Filippo E., Russotto P., Trimarchi M., Vigilante M., Ademard G., Amorini F., Auditore L., Beck C., Bercenau I., Bonnet E., Borderie B., Cardella G., Chibihi A., Colonna M., D'Onofrio A., Frankland J.D., Geraci E., Henry E., La Guidara E., Lanzalone G., Lautesse P., Lebhertz D., LeNeidre N., Lombardo I., Mazurek K., Norella S., Pagano A., Pagano E.V., Papa M., Piasecki E., Porto F., Quattrocchi L., Quinlann M., Rizzo F., Shoroeder U., Spadaccini G., Trifirò A., Toke J., Verde G.</i>	
EFFECT OF BREAKUP AND TRANSFER ON COMPLETE AND INCOMPLETE FUSION IN $^6\text{Li} + ^{209}\text{Bi}$ REACTION IN MULTI-BODY CLASSICAL MOLECULAR DYNAMICS CALCULATION	830
<i>Morker Mitul R., Godre Subodh S.</i>	
STUDIES FOR THE EFFECT OF THE POSITIVE Q-VALUE NEUTRON TRANSFERS ON SUB-BARRIER HEAVY-ION FUSION	836
<i>Jia H.M., Lin C.J., Yang L., Xu X.X., Ma N.R., Sun L.J., Yang F., Wu Z.D., Zhang H.Q., Liu Z.H., Wang D.X.</i>	
DISSIPATION STRENGTH OF THE TILTING DEGREE OF FREEDOM IN FUSION-FISSION REACTIONS	842
<i>Nadtochy P. N., Vanin D. V., Cheredov A. V., Fedorov S. V., Ryabov E. G., Adeev G. D.</i>	

DYNAMICAL DIPOLE MODE IN THE $^{40,48}\text{Ca} + ^{152,144}\text{Sm}$ FUSION REACTIONS AT 11 MEV/NUCLEON	848
<i>Parascandolo C., Pierrousakou D., Alba R., Del Zoppo A., Maiolino C., Santonocito D., Agodi C., Baran V., Boiano A., Colonna M., Coniglione R., De Filippo E., Di Toro M., Emanuele U., Farinon F., Guglielmetti A., La Commara M., Martin B., Mazzocchi C., Mazzocco M., Rizzo C., Romoli M., Signorini C., Silvestri R., Soramel F., Strano E., Torresi D., Trifirò A., Trimarchi M.</i>	
DISSIPATIVE EFFECTS IN FISSION INVESTIGATED WITH PROTON-ON-LEAD REACTIONS	855
<i>Rodríguez-Sánchez J. L., Benlliure J., Taieb J., Álvarez-Pol H., Audouin L., Ayyad Y., Bélier G., Boutoux G., Casarejos E., Chatillon A., Cortina-Gil D., Gorbinet T., Heinz A., Kelic-Heil A., Laurent B., Martin J.-F., Paradelo C., Pellereau E., Pietras B., Ramos D., Rodríguez-Tajes C., Rossi D. M., Simon H., Vargas J., Voss B.</i>	
FUSION AND NEUTRON TRANSFER REACTIONS WITH WEAKLY BOUND NUCLEI WITHIN TIME-DEPENDENT AND COUPLED CHANNEL APPROACHES	864
<i>Samarin V. V.</i>	
MICROSCOPIC DESCRIPTION OF ^{258}Fm FISSION DYNAMIC WITH PAIRING	870
<i>Scamps Guillaume, Simenel Cédric, Lacroix Denis</i>	
MEASUREMENT OF FUSION EXCITATION FUNCTION FOR $^7\text{Li}+^{64}\text{Ni}$ NEAR THE BARRIER	877
<i>Moin Shaikh Md., Roy Subinit, Rajbanshi S., Mukherjee A., Pradhan M. K., Basu P., Pal S., Nanal V., Shrivastava A., Saha S., Pillay R. G.</i>	
EXPLORING DISSIPATIVE PROCESSES AT HIGH ANGULAR MOMENTUM IN $^{58}\text{Ni}+^{60}\text{Ni}$ REACTIONS	884
<i>Williams E., Hinde D.J., Dasgupta M., Carter I.P., Cook K.J., Jeung D.Y., Luong D.H., McNeil S.D., Palshetkar C.S., Rafferty D.C., Ramachandran K., Simenel C., Simpson E.C., Wakhle A.</i>	
SYSTEMATICS FOR LOW ENERGY INCOMPLETE FUSION: STILL A PUZZLE?	890
<i>Yadav Abhishek, Shuaib Mohd, Aggarwal Abhay V., Sharma Vijay R., Bala Indu, Singh D. P., Singh P. P., Unnati, Sharma M. K., Kumar R., Singh R. P., Muralithar S., Singh B. P., Prasad R.</i>	
STUDY OF FUSION-FISSION DYNAMICS IN $^{19}\text{F}+^{238}\text{U}$ REACTION	896
<i>Dubey R., Sugathan P., Jhingan A., Kaur Gurpreet, Mukul Ish, Siwal Davinder, Saneesh N., Banerjee Tathagata, Yadav Abhishek, Thakur Meenu, Mahajan Ruchi, Chatterjee M.B.</i>	
SEMICLASSICAL APPROACH TO SEQUENTIAL FISSION IN PERIPHERAL HEAVY-ION COLLISIONS	900
<i>Strazzeri Andrea, Italiano Antonio</i>	
BARRIER DISTRIBUTION FROM $^{28}\text{Si}+^{154}\text{Sm}$ QUASIELASTIC SCATTERING: COUPLING EFFECTS IN THE FUSION PROCESS	907
<i>Kaur Gurpreet, Behera B.R., Jhingan A., Nayak B.K., Dubey R., Sharma Priya, Thakur Meenu, Mahajan Ruchi, Saneesh N., Banerjee Tathagata, Khushboo, Kumar A., Mandal S., Saxena A., Sugathan P., Rowley N.</i>	
PROBING DYNAMICS OF FUSION REACTIONS THROUGH CROSS-SECTION AND SPIN DISTRIBUTION MEASUREMENT	911
<i>Kaur Maninder, Behera B.R., Singh Gulzar, Singh Varinderjit, Madhavan N., Muralithar S., Nath S., Gehlot J., Mohanto G., Mukul Ish, Siwal D., Thakur M., Kapoor K., Sharma P., Banerjee T., Jhingan A., Varughese T., Bala Indu, Nayak B.K., Saxena A., Chatterjee M.B., Stevenson P.D.</i>	
ELASTIC SCATTERING OF $^{17}\text{O}+^{208}\text{Pb}$ AT ENERGIES NEAR THE COULOMB BARRIER	915
<i>Torresi D., Strano E., Mazzocco M., Boiano A., Boiano C., Di Meo P., La Commara M., Manea C., Nicoletto M., Grebosz J., Guglielmetti A., Molini P., Parascandolo C., Pierrousakou D., Signorini C., Soramel F., Toniolo N., Filipescu D., Gheorghe A., Glodariu T., Jeong S., Kim Y.H., Lay J.A., Miyatake H., Pakou A., Sgouros O., Soukeras V., Stroe L., Vitturi A., Watanabe Y., Zerva K.</i>	
REACTION MODELS IN NUCLEAR ASTROPHYSICS	919
<i>Descouvemont Pierre</i>	
LUNA: PRESENT STATUS AND FUTURE PROSPECTS	929
<i>Caciolli A.</i>	
INDIRECT TECHNIQUES FOR ASTROPHYSICAL REACTION RATES DETERMINATIONS	937
<i>Hammache F., Oulebsir N., Benamara S., De Séréville N., Coc A., Laird A., Stefan I., Roussel P., collaborators</i>	
THE $^{12}\text{C}(^{12}\text{C},\alpha)^{20}\text{Ne}$ AND $^{12}\text{C}(^{12}\text{C},\text{p})^{23}\text{Na}$ REACTIONS AT THE GAMOW PEAK VIA THE TROJAN HORSE METHOD	945
<i>Tumino A., Spitaleri C., Cherubini S., Guardo L., Gulino M., Indelicato I., La Cognata M., Lamia L., Pizzone R.G., Puglia S.M.R., Rapisarda G.G., Romano S., Sergi M.L., Spartà R.</i>	
STUDYING ASTROPHYSICAL REACTIONS WITH LOW-ENERGY RI BEAMS AT CRIB	953
<i>Yamaguchi H., Kahl D., Hayakawa S., Sakaguchi Y., Wakabayashi Y., Hashimoto T., Cherubini S., Gulino M., Spitaleri C., Rapisarda G.G., La Cognata M., Lamia L., Romano S., Kubono S., Iwasa N., Teranishi T., Kawabata T., Kwon Y.K., Binh D.N., Khiem L.H., Duy N.N., Kato S., Komatsubara T., Coc A., De Sereville N., Hammache F., Kiss G., Bishop S.</i>	
NEUTRON STAR STRUCTURE FROM A QUARK-MODEL BARYON-BARYON INTERACTION	961
<i>Fukukawa K., Baldo M., Burgio G.F., Schulze H.-J.</i>	
NUCLEAR MAGICS AT EXPLOSIVE MAGNETIZATION	967
<i>Kondratyev V.N.</i>	

THE TROJAN HORSE METHOD AS A TOOL FOR INVESTIGATING ASTROPHYSICALLY RELEVANT FUSION REACTIONS.....	972
<i>Lamia L., Spitaleri C., Tognelli E., Degl'Innocenti S., Pizzone R.G., Prada Moroni P.G.</i>	
NEW MEASUREMENT OF THE $^{10}\text{B}(\text{p},\alpha_0)^7\text{Be}$ REACTION CROSS SECTION AT LOW ENERGIES AND THE STRUCTURE OF ^{11}C	978
<i>Lombardo I., Dell'Aquila D., Conte F., Francalanza L., La Cognata M., Lamia L., La Torre R., Spadaccini G., Spitaleri C., Vigilante M.</i>	
PRIMORDIAL NUCLEOSYNTHESIS REVISITED VIA TROJAN HORSE RESULTS.....	984
<i>Pizzone R.G., Spartá R., Bertulani C., Spitaleri C., La Cognata M., Lamia L., Mukhamedzhanov A., Tumino A.</i>	
FUSION MEASUREMENTS OF $^{12}\text{C}+^{12}\text{C}$ AT ENERGIES OF ASTROPHYSICAL INTEREST	990
<i>Santiago-Gonzalez D., Jiang C.L., Rehm K.E., Alcorta M., Almaraz-Calderon S., Avila M.L., Ayangeakaa A.D., Back B.B., Bourgin D., Bucher B., Carpenter M.P., Courtin S., David H.M., Deibel C.M., Dickerson C., DiGiovine B., Fang X., Greene J.P., Haas F., Henderson D.J., Janssens R.V.F., Jenkins D., Lai J., Lauritsen T., Lefebvre-Schuhl A., Montanari D., Pardo R.C., Paul M., Seweryniak D., Tang X.D., Ugalde C., Zhu S.</i>	
LARGE ELECTRON SCREENING EFFECT IN DIFFERENT ENVIRONMENTS.....	996
<i>Cvetinovic Aleksandra, Lipoglavsek Matej, Markelj Sabina, Vesic Jelena</i>	
INDIRECT STUDY OF THE $^{16}\text{O}+^{16}\text{O}$ FUSION REACTION TOWARD STELLAR ENERGIES BY THE TROJAN HORSE METHOD.....	1004
<i>Hayakawa S., Spitaleri C., Burtebayev N., Aimagambetov A., Figuera P., Fisichella M., Guardo G.L., Igamov S., Indelicato I., Kiss G., Kliczewski S., La Cognata M., Lamia L., Lattuada M., Piasecki E., Rapisarda G.G., Romano S., Sakuta S.B., Siudak R., Trzcinska A., Tumino A., Urkinbayev A.</i>	
STATISTICS OF MAGNETAR CRUSTS MAGNETOEMISSION.....	1009
<i>Kondratyev V. N., Korovina Yu. V.</i>	
PRELIMINARY STUDIES FOR THREE EXPERIMENTS AT TREIMAN-YANG CRITERION.....	1013
<i>Kres I.V., Kondratyev V.N., Cherubini S., Spitaleri C.</i>	
RESONANCE STRENGTH MEASUREMENT AT ASTROPHYSICAL ENERGIES: THE $^{17}\text{O}(\text{p},\alpha)^{14}\text{N}$ REACTION STUDIED VIA THM.....	1017
<i>Sergi M.L., Spitaleri C., La Cognata M., Lamia L., Pizzone R.G., Rapisarda G.G., Mukhamedzhanov A., Irgaziev B., Tang X.D., Wischer M., Mrazek J., Kroha V.</i>	
EXCHANGE EFFECTS IN THE RADIATIVE CAPTURE REACTIONS $^3\text{H}(\alpha, \gamma)^7\text{Li}$ AND $^3\text{He}(\alpha, \gamma)^7\text{Be}$	1021
<i>Solovveyev A.S., Igashov S.Yu., Tchuivil'sky Yu.M.</i>	
EXTREME LIGHT INFRASTRUCTURE NUCLEAR PHYSICS (ELI-NP): PRESENT STATUS AND PERSPECTIVES	1025
<i>Zamfir N.V.</i>	
HIGHLIGHTS OF THE ISOLDE FACILITY AND THE HIE-ISOLDE PROJECT	1033
<i>Borge M.J.G</i>	
THE NUCLEAR MATRIX ELEMENTS OF $0\nu\beta\beta$ DECAY AND THE NUMEN PROJECT AT INFN-LNS	1045
<i>Cappuzzello F., Agodi C., Balestra F., Bijker R., Bonanno D., Bongiovanni D., Branchina V., Calabrese S., Calabretta L., Calanna A., Calvo D., Carbone D., Cavallaro M., Colonna M., Ferrero S., Foti A., Finocchiaro P., Giraud G., Greco V., Iazzi F., Introzzi R., Lanzalone G., Lavagno A., Lo Presti D., Longhitano F., Muoio A., Pandola L., Rifuggiato D., Ruslan M.V., Santopinto E., Scaltrito L., Tudisco S., Zagatto V.</i>	
THE PERFORMANCE OF AGATA: FROM THE LNL DEMONSTRATOR TO THE GANIL SETUP.....	1050
<i>Michelagnoli Caterina</i>	
FAZIA APPLICATIONS.....	1058
<i>Piantelli S., Casini G., Maurenzig P.R., Olmi A., Barlini S., Bini M., Pasquali G., Pastore G., Poggi G., Stefanini A.A., Valdrè S., Ademard G., Auger L., Bougault R., Bonnet E., Borderie B., Chbihi A., Frankland J.D., Gruyer D., Lopez O., LeNeindre N., Parlog M., Rivet M.F., Vient E., Rosato E., Spadaccini G., Vigilante M., Bruno M., Marchi T., Morelli L., Cinausero M., Degerlier M., Gramagna F., Kordyasz A., Kozik T., Twarog T., Alba R., Maiolino C., Santonocito D., Galichet E.</i>	
SILICON CARBIDE DETECTORS STUDY FOR NUMEN PROJECT.....	1066
<i>Muoio A., Agodi C., Bonanno D.L., Bongiovanni D.G., Calabrese S., Calcagno L., Carbone D., Cavallaro M., Cappuzzello F., Foti A., Finocchiaro P., Lanzalone G., La Via F., Longhitano F., Lo Presti D., Pandola L., Privitera S., Tudisco S.</i>	
DETECTOR DEVELOPMENTS FOR THE SUPER-FRS	1071
<i>Nociforo C., Schirru F., Kiš M., Schlemme S.</i>	
STATUS AND PERSPECTIVE OF FARCOS: A NEW CORRELATOR ARRAY FOR NUCLEAR REACTION STUDIES.....	1077
<i>Pagano E.V., Acosta L., Auditore L., Boiano C., Cardella G., Castoldi A., D'Andrea M., Dell'aquila D., De Filippo E., De Luca S., Fichera F., Francalanza L., Giudice N., Gnoffo B., Grimaldi A., Guazzoni C., Lanzalone G., Lombardo I., Minniti T., Norella S., Pagano A., Papa M., Pirrone S., Politi G., Porto F., Quattrocchi L., Rizzo F., Russotto P., Saccá G., Trifirò A., Trimarchi M., Verde G., Vigilante M.</i>	

EFFECTS OF THE INTERSTRIP GAP ON THE EFFICIENCY AND RESPONSE OF DOUBLE SIDED SILICON STRIP DETECTORS	1083
<i>Torresi D., Forneris J., Grassi L., Acosta L., Di Pietro A., Figuera P., Fisichella M., Grilj V., Jakic M., Lattuada M., Mijatovic T., Milin M., Prepolec L., Skukan N., Soic N., Stanko D., Tokic V., Uroic M., Zadro M.</i>	
RECENT APPLICATIONS OF NUCLEAR TRACK EMULSION	1089
<i>Mamatkulov K. Z., Ambrozová I., Artemenkov D. A., Bradnova V., Kamanin D. V., Kattabekov R. R., Majling L., Marey A., Ploc O., Rusakova V. V., Stanoeva R., Turek K., Zaitsev A. A., Zarubin P. I., Zarubina I. G.</i>	
Author Index	