

## Feature articles - already published

### **Volume 1**

Physics around SIS/ESR  
S-DALINAC  
EUROGAM  
Heavy-ion physics in Italy  
RIBs  
RF superconductivity  
ESF  
Nuclear physics at Gran Sasso  
The neutron halo  
Physics with cooled ion beams at TSR  
Colour transparency  
Double beta decay  
Radiotherapy projects at PSI  
Hot nuclei  
Model nuclei in form of metal clusters

W. Henning  
A. Richter  
J. Sharpey-Schafer  
E. Migneco et al.  
J. Vervier, D. Warner  
B. Aune, P. Leconte  
M. Mahnig  
E. Bellotti  
P.G. Hansen  
D. Habs  
B. Pire, J. Ralston  
E. Fiorini  
H. Blattmann  
D. Guerreau  
S. Björnholm et al.

### **Volume 2**

Neural networks  
The nuclear whirligig  
Ultra-relativistic heavy-ion collisions  
Spin structure  
Inertial confinement fusion  
Dynamic symmetries  
Hadron spectroscopy with antiprotons

C. Peterson  
W. Gelletly  
J. Schukraft  
P. de Witt Huberts  
J. Meyer-ter-Vehn  
F. Iachello  
C. Amsler

### **Volume 3**

Accelerator mass spectrometry  
Delta isobars in nuclei  
Multifragmentation  
Multifragmentation  
Evidence for resonance matter at SIS

W. Kutschera  
C. Gaarde  
G. Auger et al.  
D. Gross  
U. Mosel, V. Metag

### **Volume 4**

Medea experiments  
Nuclear Astrophysics  
Chaos in nuclei  
Energy production and waste management  
Nuclear resonance fluorescence  
Polarized pure HD target  
ELFE

E. Migneco  
C. Rolfs  
H. Weidenmüller  
H. Nifenecker  
U. Kneissl  
J.P. Didelez  
P. de Witt Huberts

### **Volume 5**

Neutrino mass measurements  
Statistical multistep reactions  
Multiphonon states in nuclei  
FEL on ELFE  
The neutron  
Images

E. Otten  
H. Feshbach  
N. Frascaria  
E. Klein  
D. Dubbers  
E. Cohen

### **Volume 6**

Nuclei and clusters  
Chronology with PIXE  
Radioactive beams  
Superheavy elements

S. Frauendorf  
P. Mandò  
B. Sherrill  
S. Hoffmann

### **Volume 7**

Low energy antiprotons  
Proton rich nuclei

E. Lodi Rizzini  
E. Roeckl

### **Volume 8**

Reflections on Pierre Curie  
From nuclear fission to SHE  
Nuclear physics and cosmology  
Nuclear impact on medicine  
CoulEx of RIB  
ECT\*

V. Telegdi  
G. Herrmann  
J. Audouze  
G. Kraft  
F. Azaiez  
D. Brink

### **Volume 9**

Pion shadowing  
Proton-neutron pairing  
Decay beyond Proton-Dripline  
Testing the Statistical Model

A. Palmeri  
S. Pittel  
P. Woods  
M. Guutormsen

### **Volume 10**

Supersymmetry in Nuclei  
The INT at Age Ten  
Doppler Shift based Lifetime ..  
Shell Model Applications  
Antiproton - A probe ..

F. Iachello  
W. Haxton  
H.G. Börner, R. Krücken  
K. Langanke, A. Poves  
J. Jastrzebski

### **Volume 11**

Magic and Doubly Magic Nuclei  
GT Giant Resonance  
Polarisation Experiments in Storage Ring  
Gamma-ray Astronomy  
Parity Violation  
Pattern out of Randomness

B. Blank  
H. Sakai, T. Suzuki  
H.-O. Meyer  
V. Schönfelder  
W. van Oers  
R. Bijker, A. Frank

**Volume 12**

Search for Antimatter in Space  
Non-Accelerator Nuclear Physics  
Gamma-Ray Tracking  
Nuclear Structure Near Drip-Lines  
Critical Point Symmetries  
Free Muons and Muonium  
Exotic Clustering in Nuclei  
Density Functional Theory

F. Pauss et al.  
J. Deutsch, C. Briancon  
K. Vetter  
I. Hammamoto, H. Sugawa  
F. Iachello  
K. Jungmann  
B. Buck et al.  
D. Brink

**Volume 13**

Ab Initio Calculations of Light Nuclei  
Helium Nanodroplets  
New Magnetic Dipole Phenomena  
Gravitation at a Micron and Mixing of Quarks  
Nuclear Exchange Currents  
Radioactive Nuclei and Exploding Stars  
Quantised Wobbling in Nuclei  
Using a Square Well to Introduce Nuclear Physics

S. Pieper et al.  
J. Navarro et al.  
N. Pietralla et al.  
H. Abele  
D.O. Riska  
M. Aliotta  
G. Hagemann et al.  
J.L. Sida et al.

**Volume 14**

Trapping of radioactive Isotopes  
Static Moments of Exotic Nuclear Structures  
Physics of ITER  
Laser-Based Ionization Techniques...  
Discovery of Superheavy Elements  
Chemistry of SHE  
Spectroscopy of SHE

J. Kluge  
G. Neyens  
L. Horton  
K. Wendt  
S. Hofmann et al.  
A. Türler et al.  
P. Butler et al.

**Volume 15**

Neutrino Physics  
Structural Evolution in Nuclei : Simple Hamiltonian  
QCD in Nuclei  
Frontiers of Nuclear Structure: Exotic Nuclei  
Challenges in Nuclear Astrophysics  
A Relativistic Symmetry in Nuclei  
Exploding Stars, Neutrinos, Nucleosynthesis  
Structure / Reactions halo Nuclei  
Nucleosynthesis in Classical Nova Explosions

L. Oberauer et al.  
J. Jolie et al.  
H. Lenske  
B. Sherrill/R. Casten  
W. Hillebrandt/K. Langanke  
J. Ginocchio  
G. McLaughlin  
D. Baye, Y. Suzuki  
J. Jose, A. Coc

## Volume 16

NuSTAR  
PANDA  
CBM  
Atomic and Fundamental Physics  
High Energy Density Matter Research  
FAIR Experiments in Biophysics and Materials  
Electron Screening in Metals  
Laboratory Studies of Stardust  
Lattice QCD  
Hypernuclear Physics at KEK  
Superaligned Nuclear Beta-Decay  
Double Beta-Decay  
Rationale for Nuclear Energy

B. Rubio et al.  
K. Brinkmann et al.  
C. Höhne et al.  
E. Widmann et al.  
N. Tahir et al.  
C. Trautmann et al.  
C. Rolfs  
E. Zinner  
Z. Fodor, S. Katz  
T. Nagae  
J. Hardy, I Towner  
P. Vogl  
J. McKee

## Volume 17

Trapped Radioactive Isotopes  
Quantum Interferometry  
Nuclear Isomers  
Kaonic Nuclear Clusters  
Shell Evolution and Correlations  
Three-Nucleon System  
Alpha Particle Condensation  
Mass Chain Evaluations etc.  
Neutron Stars and Nuclei

H. Wilschut, K. Jungmann  
B. Jacobsson, B. Ghetti  
P. Walker, J. Carroll  
T. Bressani  
A. Poves  
N. Kalantar et al.  
P. Schuck et al.  
F.G. Kondev et al.  
E. Khan et al.

## Volume 18

Giant Resonance Overtones  
Shapes of the Proton  
Baryon-Baryon Interactions  
Geoneutrinos  
Underground Laboratories

M. Harakeh et al.  
G. Miller  
Y. Fujiwara et al.  
N. Tolich  
N. Spooner

## Volume 19

Shape Phase Transitions  
RISING  
Stellar Reaction Rates  
Antiprotonic Helium Atoms  
Two-Proton Radioactivity  
Hadron Experimental Hall  
Strangeness Nuclear Physics at J-PARC  
Fundamental Physics at Hadron Experimental Hall  
The T2K Experiment  
Japan Spallation Neutron Source at J-PARC  
Muon Science and MUSE  
Fundamental Science for Neutrons  
Nuclear Transmutation as a Phase 2 Project

D. Bonatsos, E. McCutchan  
F. Camera, J. Gerl  
N. Timofeyuk  
R. Hayano  
B. Blank  
K. Tanaka  
T. Nagae  
N. Saito  
D. Ward  
M. Arai, F. Maekawa  
Y. Miyake  
H. Shimizu  
H. Oigawa

## Volume 20

Knock-out Reactions  
N=28: Shell and Shapes  
Annihilation, Strangeness and QGP  
3-D Structure of the Nucleon  
Time-Variation of Fundamental Constants  
Weak Decay of Hypernuclei  
Charmonium Spectroscopy

A. Gade, J. Tostevin  
S. Grevy, L. Gaudefroy  
G. Bendiscioli  
M. Anselmino  
V. Flambaum  
E. Botta, S. Bufalino  
U. Wiedner

## Volume 21

Long Range Structure of the Nucleon  
Ab initio No Core Shell Model  
The Heaviest Nuclei ...  
Microscopic Evolution of Nuclear Equilibrium Shapes  
Regular and Chaotic Collective Modes in Nuclei

M. Vanderhaeghen, T. Walcher  
B. Barrett et al.  
R. Clark  
D. Vretenar et al.  
P. Cejnar et al.

## Volume 22

Reflections along the N=Z line  
Nuclear astrophysics  
Neutron-rich hypernuclei  
Discovery of the nuclides  
Shell Evolution

M. Bentley  
M. Aliotta  
T. Bressani et al.  
M. Thoenessen  
T. Otsuka, A. Schwenk

## Volume 23

Antimatter in HI Collisions  
Heaviest Nuclei  
Spin Programme at COSY-ANKE  
Precision Mass Measurements  
Double beta decay  
Shell evolution

Y. Ma  
Yu. Oganessian  
C. Wilkin et al.  
S. Kreim et al.  
A. Barabash, F. Piquemal  
A. Gade

## Volume 24

Beta-delayed fission  
Pairing interaction ..  
Beyond the n dripline  
Cosmological Constatnt Puzzle  
25 Years of NuPECC  
Nuclear Lattice Simulations  
Light Nuclei near Threshold

A. Andreev et al.  
F. Barranco et al.  
T. Aumann and H. Simon  
S. Bass  
AB, GEK, ex-chairs  
U. Meißner  
C. Hoffman, B. Kay

## Volume 25

Pear-Shaped Nuclei  
Shear Viscosity of QGP  
Neutron-antineutron oscillations at ESS  
On-Line Laser Spectroscopy

P. Butler, L. Willmann  
C. Shen, U. Heinz  
C. Theroine  
I. Moore et al.

**Volume 26**

COMPASS  
ee'p reactions  
Origin of stable p-rich isotopes

A. Bressan  
O. Benhar  
R. Refarth, M. Wiescher