V
PUBLICATIONS

V.1
Publications and Reports

V. M. Abazov for the DØ Collaboration:
Search for 3- and 4-body decays of the scalar top quark in p anti-p collisions at s(1/2) = 1.8-TeV**
FERMILAB-PUB-03-306-E (2003)

V. M. Abazov for the DØ Collaboration:
Search for new particles in the two-jet decay channel with the DØ detector
arXiv:hep-ex/0308033 (2003)

V. M. Abazov for the DØ Collaboration:
Observation of diffractively produced W and Z bosons in anti-p p collisions at s(1/2) = 1800-GeV**
Phys. Lett. **B574** (2003) 169

V. M. Abazov for the DØ Collaboration:
Search for narrow t anti-t resonances in p anti-p collisions at s(1/2) = 1.8-TeV**
FERMILAB-PUB-03-225-E (2003)

V. M. Abazov for the DØ Collaboration:
Search for large extra dimensions in the monojet + missing-E(T) channel at DØ
Phys.Rev.Lett. **90** (2003) 251802

V. M. Abazov for the DØ Collaboration:
Multiple jet production at low transverse energies in p anti-p collisions at s(1/2) = 1.8-TeV**
Phys.Rev. **D67** (2003) 052001

V. M. Abazov for the DØ Collaboration:
t anti-t production cross section in p anti-p collisions at s(1/2) = 1.8-TeV**
Phys.Rev. **D67** (2003) 012004

A. Airapetian, G. Graw, R. Hertenberger, for the HERMES Collaboration:
Measurement of single-spin azimuthal asymmetries in semi-inclusive electroproduction of pions and kaons on a longitudinally polarised deuterium target
Phys.Lett. **B 562** (2003) 182

A. Airapetian, G. Graw, R. Hertenberger, for the HERMES Collaboration:
The Q(2)-dependence of the generalised Gerasimov-Drell-Hearn integral for the deuteron, proton and neutron
Eur.Phys.J **C 26** (2003) 527

A. Airapetian, G. Graw, R. Hertenberger, for the HERMES Collaboration:
Evidence for quark-hadron duality in the proton spin asymmetry A(1)
Phys.Rev.Lett. **90** (2003) 9

A. Airapetian, G. Graw, R. Hertenberger, for the HERMES Collaboration:
Q^2 dependence of nuclear transparency for exclusive ρ^0 production
Phys.Rev.Lett. **90** (2003) 052501

A. Airapetian, G. Graw, R. Hertenberger, for the HERMES Collaboration:
Erratum to: Nuclear effects on R = σ_L/σ_T in deep-inelastic scattering (Phys. Lett. B475,(2000) 386)
Phys.Lett. **B567** (2003) 339

R. Aleksan, P. F. Giraud, V. Morenas, O. Pene, and A. S. Safir:
Testing QCD factorisation and charming penguins in charmless $B \to PV$
Phys. Rev. **D67** (2003) 094019

A. Aleksov, A. Denisenko, M. Kunze, A. Vescan, A. Bergmaier, G. Dollinger, W. Ebert, and E. Kohn:
Diamond Diodes and Transistors
Semicond. Sci. Technol. **18** (2003) 59

A. Aleksov, M. Kubovic, N. Kaeb, U. Spitzberg, A. Bergmaier, G. Dollinger, T. Bauer, M. Schreck, B. Stritzker, and E. Kohn:
Diamond Field Effect Transistors-Concepts and Challenges
Diam. Rel. Mat. **12** (2003) 391

M. Allen, Y. Sentoku, P. Audebert, A. Blazevic, T. Cowan, J. Fuchs, J.C. Gauthier, M. Geissel, M. Hegelich, S. Karsch, E. Morse, P.K. Patel, and M. Roth:
Proton spectra from ultraintense laser-plasma interaction with thin foils: Experiments, theory, and simulation
Phys. Plasmas **10** (2003) 3283

F. Ames, G. Bollen, J. Cederkall, S. Emhofer, O. Forstner, D. Habs, G. Huber, O. Kester, K. Reisinger, T. Sieber, P. van den Bergh, P. van Duppen, R. von Hahn, F. Wenander, and B. Wolf:
Accelerating radioactive ion beams with REX-ISOLDE
AIP Conf. Proc. **680** (2003) 245

C. Amsler *et al.*, Crystal Barrel Collaboration:
Annihilation at Rest of Antiprotons and Protons into Neutral Pions
Nucl. Phys. **A720** (2003) 357

G. Angloher *et al.*:
CRESST-II: Dark Matter search with scintillating absorbers
Nucl. Instr. Meth. A (accepted for publ.)

D. Atwood and G. Hiller:
Implications of non-standard CP violation in hadronic B decays
hep-ph/0307251

D.K. Avasthi, W. Assmann, A. Tripathi, S.K. Srivastava, S. Ghosh, F. Grüner, and M. Toulemonde:
Transient enhanced diffusion of Oxygen in Fe mediated by large electronic excitation
Phys. Rev. **B68** (2003) 156806

H. Back *et al.*, Borexino-Collaboration:
New experimental limits on heavy neutrino mixing in B-8 decay obtained with the Prototype of the Borexino Detector
JETP Lett. **78** (2003) 261 -266

H. Back *et al.*, Borexino-Collaboration:
Study of the neutrino electromagnetic properties with the Prototype of the Borexino Detector
Physics Letters B **563** (2003) 37

H. Back *et al.*, Borexino-Collaboration:
New limits on nucleon decays into invisible channels with the BOREXINO Counting Test Facility
Phys. Lett. B **563** (2003) 23

C.A. Baker, C.J. Batty, K. Braune, D.V.. Bugg, N. Djaoshvili, W. Dünnweber, M.A. Faessler, F. Meyer-Wildhagen, L. Montanet, I. Uman, and S. Wallis-Plachner:
Confirmation of $a_0(1450)$ and $\pi_1(1600)$ in $p\bar{p} \to \omega\pi^+\pi^-\pi^0$ at Rest
Phys. Lett. **B563** (2003) 140

C.J. Barton, M.A. Caprio, D. Shapira, N.V. Zamfir, D.S. Brenner, R.L. Gill, T.A. Lewis, J.R. Cooper, R.F. Casten, C.W. Beausang, R. Krücken, and J.R. Novak:
B(E2) values from low-energy Coulomb excitation at an ISOL facility: The N=80,82 Te isotopes
Phys. Lett. **B551** (2003) 269

C.J. Barton, D.S. Brenner, N.V. Zamfir, M.A. Caprio, A. Aprahamian, M.C. Wiescher, C.W. Beausang, Z. Berant, R.F. Casten, J.R. Cooper, R.L. Gill, R. Krücken, J.R. Novak, N. Pietralla, M. Shawcross, A. Teymurazyan, and A. Wolf:
Mass measurement of ^{80}Y by beta - gamma coincidence spectroscopy
Phys.Rev. **C67** (2003) 034310

M. Battaglia *et al.*:
The CKM matrix and the unitarity triangle
Proceedings, Workshop, Geneva,Switzerland, February 13-16, 2002 **hep-ph/0304132** (2003)

C. Baumgarten, G. Graw, R. Hertenberger, for the HERMES Target Collaboration:
The storage cell of the polarized internal H/D gas target of the HERMES experiment at HERA
Nucl.Instrum.Meth. **A496** (2003) 277

C. Baumgarten, G. Graw, R. Hertenberger, for the HERMES Target Collaboration:
Measurements of atomic recombination in the HERMES polarized hydrogen and deuterium storage cell target
Nucl.Instrum.Meth. **A496** (2003) 263

C. Baumgarten, G. Graw, R. Hertenberger, for the HERMES Target Collaboration:
A gas analyzer for the internal polarized target of the HERMES experiment
Nucl.Instrum.Meth. **A508** (2003) 268

M. Beck, F. Ames, D. Beck, G. Bollen, B. Delaure, V.V. Golovko, V.Y. Kozlov, I.S. Kraev, A. Lindroth, T. Phalet, W. Quint, P. Schuurmans, N. Severijns, B. Vereecke, and S. Versyck:
WITCH: a recoil spectrometer for weak interaction and nuclear physics studies
Nucl. Instr. Meth. **A503** (2003) 567

M. Beck, F. Ames, D. Beck, G. Bollen, B. Delaure, J. Deutsch, V.V. Golovko, V.Y. Kozlov, I.S. Kraev, A. Lindroth, T. Phalet, W. Quint, K. Reisinger, P. Schuurmans, N. Severijns, B. Vereecke, and S. Versyck:
WITCH: a recoil spectrometer for beta-decay
Nucl. Instr. Meth. **B204** (2003) 521

P.-F. Bedaque, G. Rupak, H.W. Grießhammer, and H.-W. Hammer:
Low Energy Expansion in the Three Body System to All Orders and the Triton Channel
Nucl.Phys. **A714** (2003) 589

R. Behrens, H. Schwoerer, S. Düsterer, P. Ambrosi, G. Pretzler, S. Karsch, and R. Sauerbrey:
A thermoluminescence detector-based few-channel spectrometer for simultaneous detection of electrons and photons from relativistic laser-produced plasmas
Rev. Sci. Instr. **74** (2003) 961

N. Beisert and B. Borasoy:
Hadronic decays of eta and eta-prime with coupled channels
Nucl.Phys. **A716** (2003) 186

N. Beisert and B. Borasoy:
S **Wave meson meson scattering from unitarized** $U(3)$ **chiral Lagrangians**
Phys.Rev. **D67** (2003) 074007

M. Beneke, G. Buchalla, A. Lenz, and U. Nierste:
CP asymmetry in flavor specific B decays beyond leading logarithms
Phys. Lett. **B576** (2003) 173

V. Bernard, T.R. Hemmert, and U.-G. Meißner:
Infrared regularizations with spin 3/2 fields
Phys.Lett. **B565** (2003) 137

V. Bernard, T.R. Hemmert, and U.-G. Meißner:
Spin structure of the nucleon at low energies
Phys.Rev. **D67** (2003) 076008

K. Blaum, G. Bollen, F. Herfurth, A. Kellerbauer, H.J. Kluge, M. Kuckein, S. Heinz, P. Schmidt, and L. Schweikhard:
Recent developments at ISOLTRAP: towards a relative mass accuracy of exotic nuclei below $10^{(-8)}$
Jour. Phys. **B36** (2003) 921

B. Borasoy and H.W. Grießhammer:
Pion deuteron scattering length in effective field theory
Int.J.Mod.Phys. **E12** (2003) 65

B. Borasoy and E. Marco:
Final state interactions in nonleptonic hyperon decays
Phys.Rev. **D67** (2003) 114016

F. Brandl, G. Pretzler, D. Habs, and E. Fill:
Čerenkov radiation diagnostics of hot electrons generated by fs-laser interaction with solid targets
Europhys. Lett. **61** (2003) 632

P. Bringel, H. Hübel, H. Amro, M. Axiotis, D. Bazzacco, S. Bhattacharya, R. Bhowmik, J. Domscheit, G. B. Hagemann, D. R. Jensen, T. Kröll, S. Lunardi, D. R. Napoli, A. Neußer, S. C. Pancholi, C. M. Petrache, G. Schönwaßer, A. K. Singh, and C.A. Ur:
First evidence for triaxial superdeformation in ^{161}Lu and ^{162}Lu
Eur. Phys. J. **A16** (2003) 155

G. Buchalla, G. D'Ambrosio, and G. Isidori:
Extracting short-distance physics from $K_{L,S} \to \pi^0 e^+ e^-$ decays
Nucl. Phys. **B672** (2003) 387

G. Buchalla and A. S. Safir:
Model independent bound on the unitarity triangle from CP violation in $B \to \pi^+\pi^-$ and $B \to \psi K_S$
hep-ph/0310218

M. Bussmann, U. Schramm, T. Schätz, and D. Habs:
Structural changes in bunched crystalline ion beams
Journ. Phys. **A36** (2003) 6119

P.A. Butler, R.D. Humphreys, P.T. Greenlees, R.D. Herzberg, D.G. Jenkins, G.D. Jones, H. Kankaanpaa, H. Kettunen, P. Rahkila, C. Scholey, J. Uusitalo, N. Amzal, C. Andreoiu, A.N. Andreyev, D. Appelbe, J.E. Bastin, P.M.T. Brew, K. Eskola, S.J. Freeman, J. Gerl, N.J. Hammond, K. Hauschild, K. Helariutta, F.P. Hessberger, A. Hürstel, P.J.C. Ikin, P.M. Jones, D.T. Joss, R. Julin, S. Juutinen, A. Keenan, T.L. Khoo, W. Korten, P. Kuusiniemi, Y. Le Coz, M. Leino, A.P. Leppanen, M. Muikku, P. Nieminen, S.W. Odegard, R.D. Page, T. Page, J. Pakarinen, P. Reiter, J. Simpson, G. Sletten, C. Theisen, B.J. Varley, and H.J. Wollersheim:
High K bands in mid-supershell nuclei
Acta Phys. Pol. **B34** (2003) 2107

M.A. Caprio, N.V. Zamfir, E.A. McCutchan, R.F. Casten, Z. Berant, H. Amro, C.J. Barton, C.W. Beausang, D.S. Brenner, J.R. Cooper, R.L. Gill, G. Gürdal, A.A. Hecht, C. Hutter, R. Krücken, D.A. Meyer, J.R. Novak, N. Pietralla, P.H. Regan, and J.J. Ressler:
Measurement of 2_1^+ level lifetimes in ^{162}Yb and ^{162}Er by fast electronic scintillation timing
Eur. Phys.Jour. **A16** (2003) 177

R.F. Casten, N.V. Zamfir, and R. Krücken:
Comment on "Reexamination of the N=90 transitional nuclei ^{150}Nd and ^{152}Sm"
Phys. Rev. **C68** (2003) 059801

M. Danchev, D.-L. Balabanski, I. Yigitoglu, B. Akkus, C.W. Beausang, M. Bostan, R.F. Casten, M.-K. Djongolov, M.N. Erduran, S. Erturk, K.-A. Gladnishki, G. Gurdal, J.-T.-M. Goon, D.J. Hartley, A.A. Hecht, R. Krücken, J.R. Novak, Y. Oktem, G. Rainovski, L.-L. Riedinger, N.V. Zamfir, and O. Zeidan:
Delayed backbending in the $\pi h_{9/2}$ bank of ^{187}Ir
Phys.Rev. **C68** (2003) 54307

M. Deile, H. Dietl, J. Dubbert, S. Horvat, O. Kortner, H. Kroha, A. Manz, S. Mohrdieck, F. Rauscher, R. Richter, and A. Staude:
Resolution and Efficiency Studies with a BOS Monitored Drift-Tube Chamber and a Silicon Telescope at the Gamma Irradiation Facility
ATL-COM-MUON (2003) 006

B. Delaure, M. Beck, V.V. Golovko, V.Y. Kozlov, T. Phalet, P. Schuurmans, N. Severijns, B. Vereecke, S. Versyck, D. Beck, W. Quint, F. Ames, K. Reisinger, O. Forstner, J. Deutsch, G. Bollen, and S. Schwarz:
WITCH: A Penning trap retardation spectrometer combination for precision studies of the weak interaction
Hyp. Int. **146** (2003) 91

A. Dewald, R. Peusquens, B. Saha, P. von Brentano, A. Fitzler, I. Wiedenhöver, M.P. Carpenter, A. Heinz, R.V.F. Janssens, F. Kondev, C.J. Lister, D. Seweryniak, Kh. Abu Saleem, R. Krücken, J.R. Cooper, C.J. Barton, K.E. Zyromski, C.W. Beausang, Z. Wang, P. Petkov, A.M. Oros-Peusquens, U. Garg, and S. Zhu:
Recoil gated plunger lifetime measurements in ^{188}Pb
Phys. Rev. **C68** (2003) 034314

G. Dollinger, P. Reichart, G. Datzmann, A. Hauptner, and H.-J. Körner:
Three-Dimensional Hydrogen Microscopy Using a High-Energy Proton Probe
Appl. Phys. Lett. **82** (2003) 148

G. Dollinger, G. Datzmann, A. Hauptner, R. Hertenberger, H.-J. Körner, P. Reichart, and B. Volckaerts:
The Munich Ion Microprobe Characteristics and Prospects
Nucl. Instr. Meth. **B210** (2003) 6

G. Doucas, M.F. Kimmitt, Th. Kormann, G. Korschinek, and C. Wallner:
Smith-Purcell Radiation in the Sub-mm Wavelength Region
International Journal of Infrared and Millimeter Waves **24(6)** (2003) 829

J. Dubbert, S. Horvat, O. Kortner, H. Kroha, A. Manz, S. Mohrdieck-Möck, F. Rauscher, R. Richter, A. Staude, and W. Stiller:
Resolution and Efficiency of Monitored Drift-Tube Chambers with Final Read-out electronics at High Background Rates
ATL-COM-MUON (2003) 036

W. Dünnweber, Ch. Ilgner, J. Neumayr, and K. Platzer:
Irradiation Response of Straw Drift Tubes
Nucl. Instr. Meth. **A515** (2003) 234

T. Eberl, L. Fabbietti, J. Friese, R. Gernhäuser, J. Homolka, H.-J. Körner, M. Münch, and B. Sailer:
Measurement of π^0- induced leptons with the HADES RICH detector
Nucl. Instr. Meth. **A502** (2003) 305

U. Eisenbarth, M. Beutelspacher, B. Eike, M. Grieser, R. Grimm, M. Mudrich, U. Schramm, D. Schwalm, and M. Weidemüller:
New method to measure the friction force of electron coolers in heavy-ion storage rings
Nucl. Instr. Meth. **A498** (2003) 16

L. Fabbietti, T. Eberl, J. Friese, R. Gernhäuser, J. Homolka, H.-J. Körner, M. Münch, and B. Sailer:
Photon detection efficiency in the CsI based HADES RICH
Nuclear Instr. Meth. **A502** (2003) 256

E. Farnea, G. de Angelis, A. Gadea, P.G. Bizzeti, A. Dewald, J. Eberth, A. Algora, M. Axiotis, D. Bazzacco, A.M. Bizzeti-Sona, F. Brandolini, G. Colò, W. Gelletly, M. A. Kaci, N. Kintz, T. Klug, T. Kröll, S. M. Lenzi, S. Lunardi, N. Marginean, T. Martinez, R. Menegazzo, D. R. Napoli, J. Nyberg, P. Pavan, Zs. Podolyak, C. M. Petrache, B. Quintana, B. Rubio, P. Spolaore, T. Steinhardt, J. L. Taín, O.Thelen, C.A. Ur, R. Venturelli, and M. Weiszflog:
Isospin mixing in the N=Z nucleus ^{64}Ge nucleus
Phys. Lett. **B551** (2003) 56

J. Fernandez Niello, A. Arazi, T. Faestermann, K. Knie, G. Korschinek, E. Richter, G. Rugel, and A. Wallner:
An Alternative Method for the Measurement of Stellar Nuclear-Reaction Rates
Brazilian Journal of Physics **33/2** (2003) 218

P. Finelli, N. Kaiser, D. Vretenar, and W. Weise:
Nuclear many-body dynamics constrained by QCD and chiral symmetry
Eur.Phys.J. **A17** (2003) 573

N. Fotiades, J.A. Cizewski, R. Krücken, D.P. McNabb, J.A. Becker, L.A. Bernstein, W. Younes, R.M. Clark, P. Fallon, I.Y. Lee, and A.O. Macchiavelli:
High-spin states in odd-odd ^{106,108,110,112}Rh
Phys. Rev. **C67** (2003) 064304

N. Fotiades, J.A. Cizewski, R. Krücken, D.P. McNabb, J.A. Becker, L.A. Bernstein, W. Younes, R.M. Clark, P. Fallon, I.Y. Lee, and A.O. Macchiavelli:
Enhanced production of neutron-deficient fission fragments in heavy-ion-induced fusion reactions
Phys.Rev. **C67** (2003) 034602

M. Frank *et al.*:
Cryogenic detectors and their application to X-ray fluorescence analysis
Journal of X-ray Science and Technology **11** (2003) 83

J. Friese, R. Gernhäuser, P. Maier-Komor, and S. Winkler:
A new carbon based VUV mirror of high radiation length for the HADES RICH
Nuclear Instr. Meth. **A 502** (2003) 241

S. Fritsch and N. Kaiser:
Single-particle potential in a chiral approach to nuclear matter including short-range NN-terms
Eur.Phys.J. **A17** (2003) 11

C. Fuchs and T. Gaitanos:
Consequences of kinetic non-equilibrium for the nuclear equation-of-state in heavy ion collision
Nuclear Physics **A714** (2003) 643

A. Gadea, G. de Angelis, E. Farnea, N. Marginean, M. Axiotis, T. Martinez, D. R. Napoli, T. Kröll, M. De Poli, P. Spolaore, E. Fioretto, S. M. Lenzi, E. Maglione, C.A. Ur, S. Lunardi, R. Menegazzo, P. Pavan, R. Venturelli, F. Brandolini, C. Rossi Alvarez, G. Nardelli, M. Bellato, A. Bracco, F. Camera, G. Colo, D. Bucurescu, M. Ionescu-Bujor, A. Iordachescu, D. Curien, O. Dorveaux, N. Kintz, C. Ring, H. Grawe, J. Nyberg, M. Weiszflog, A. Dewald, J. Eberth, T. Steinhardt, I. Stefanescu, O. Thelen, A. Fitzler, S. Kasemann, T. Klug, P. Petkov, W. Gelletly, A.M. Bizzeti-Sona, P.G. Bizzeti, B. Quintana, B. Rubio, J. L. Tain, A. Algora, V.F.E. Pucknell, and R. Wyss:
Spectroscopy of heavy N=Z nuclei with GASP and EUROBALL
Acta Physica Polonica **B34** (2003) 2429

T. Gaitanos, M. DiToro, S. Typel, V. Baran, C. Fuchs, V. Grogo, and H.H. Wolter:
On the Lorentz structure of the symmetry energy
Nucl.Phys. **A732** (2003) 24

S. Ghosh, D.K. Avasthi, T. Som, A. Tripathi, S.K. Srivastava, F. Grüner, and W. Assmann:
Ion velocity, charge state and substrate dependent electronic sputtering of Fullerene
Nucl. Instr. Meth. **B212** (2003) 431

V. Greco, V. Baran, M. Colonna, M. Di Toro, T. Gaitanos, and H.H. Wolter:
Relativistic effects in the search for high density symmetry energy
Phys.Lett. **B562** (2003) 215

F. Grüner, W. Assmann, F. Bell, M. Schubert, J.U. Andersen, S.A. Karamian, G. Dollinger, A. Bergmaier, L. Görgens, W. Günther, and M. Toulemonde:
Transverse cooling and heating in ion channeling
Phys. Rev. **B68** (2003) 174104

D. Habs, M. Groß, W. Assmann, F. Ames, H. Bongers, S. Emhofer, S. Heinz, S. Henry, O. Kester, J. Neumayr, F. Ospald, P. Reiter, T. Sieber, J. Szerypo, P.G. Thirolf, V. Varentsov, T. Wilfart, T. Faestermann, R. Krücken, and P. Maier-Komor:
The Munich Accelerator for Fission Fragments MAFF
Nucl. Instr. Meth. **B204** (2003) 739

C. Hammerl, Y. Bohne, W. Assmann, K. Helming, and B. Rauschenbach:
Formation of buried oxide layers in titanium by high-fluence oxygen ion implantation
Nucl. Instr. and Meth. **B206** (2003) 1072

A.A. Hecht, C.W. Beausang, H. Amro, C.J. Barton, Z. Berant, M.A. Caprio, R.F. Casten, J.R. Cooper, D.J. Hartley, R. Krücken, D.A. Meyer, H. Newman, J.R. Novak, N. Pietralla, J.J. Ressler, A. Wolf, N.V. Zamfir, J.-Y. Zhang, and K.E. Zyromski:
Evidence for chiral symmetry breaking in ^{140}Eu?
Phys. Rev. **C68** (2003) 054310

M. Hegelich, S. Karsch, G. Pretzler, D. Habs, K. Witte, W. Günther, M. Allen, A. Blazevic, J. Fuchs, J.C. Gauthier, M. Geissel, P. Audebert, T. Cowan, and M. Roth:
MeV Ion Jets from Shortpulse-Laser Interaction with thin foils
Phys. Rev. Lett. **89** (2003) 085002

S. Heinz, D. Habs, J. Neumayr, M. Schumann, S. Szerypo, P.G. Thirolf, V. Varentsov, F. Voit, and A. Wilfart:
A new concept for cooling low-energy ion beams
J. Phys. **B36** (2003) 971

T.R. Hemmert, M. Procura, and W. Weise:
Quark mass dependence of the nucleon axial vector coupling constant
Phys.Rev. **D68** (2003) 075009

T.R. Hemmert, M. Procura, and W. Weise:
Quark mass dependence nucleon properties and extrapolations from lattice QCD
Prog.Part.Nucl.Phys. **50** (2003) 419

T.R. Hemmert, M. Procura, and W. Weise:
Chiral extrapolations of nucleon properties from lattice QCD
Nucl.Phys. **A721** (2003) 938

F. Herfurth, F. Ames, G. Audi, D. Beck, K. Blaum, G. Bollen, A. Kellerbauer, H.J. Kluge, M. Kuckein, D. Lunney, R.B. Moore, M. Oinonen, D. Rodriguez, E. Sauvan, C. Scheidenberger, S. Schwarz, G. Sikler, and C. Weber:
Mass measurements and nuclear physics - recent results from ISOLTRAP
Jour. Phys. **B36** (2003) 931

G. Hiller and F. Krüger:
More model-independent analysis of b $\rightarrow$ s processes
hep-ph/0310219

H. Hofmann:
A note on the time evolution of the fission decay width under the influence of dissipation
Phys.Lett. **B567** (2003) 189

H. Hofmann and A.G. Magner:
Mean first passage time for fission potentials having structure
Phys.Rev. **C68** (2003) 014606

D. Hojman, M. A. Cardona, D. R. Napoli, S. M. Lenzi, J. Davidson, M. Davidson, C.A. Ur, G. Lo Bianco, C. M. Petrache, M. Axiotis, D. Bazzacco, M. De Poli, G. de Angelis, E. Farnea, T. Kröll, S. Lunardi, N. Marginean, T. Martinez, R. Menegazzo, B. Quintana, and C. Rossi Alvarez:
Signature inversion and deformation driving effects in ^{178}Ir
Phys. Rev. **C67** (2003) 024308

S. Horvat, O. Kortner, H. Kroha, A. Manz, S. Mohrdieck, F. Rauscher, and R. Richter:
Study of the Resolution of Monitored Drift-Tube Chambers with Shielded Hedgehog Cards
ATL-COM-MUON (2003) 004

H. Hübel, A. K. Singh, N. Nenoff, D. Roßbach, A. Görgen, S. Chmel, F. Azaiez, A. Astier, D. Bazzacco, M. Belleguic, S. Bouneau, C. Bourgeois, N. Buforn, B. Cederwall, I. Deloncle, J. Domscheit, F. Hannachi, K. Hauschild, A. Korichi, W. Korten, T. Kröll, Y. Le Coz, A. Lopez-Martens, R. Lucas, S. Lunardi, H.J. Maier, E. Mergel, M. Meyer, C. M. Petrache, N. Redon, P. Reiter, C. Rossi Alvarez, G. Schönwaßer, O. Stezowski, P.G. Thirolf, and A. N. Wilson:
Magnetic Rotation in ^{196}Pb
AIP Conference Proceedings **656** (2003) 184

C. Hutter, R. Krücken, A. Aprahamian, C.J. Barton, C.W. Beausang, M.A. Caprio, R.F. Casten, W.-T. Chou, R.M. Clark, D. Cline, J.R. Cooper, M. Cromaz, A.A. Hecht, A.O. Macchiavelli, N. Pietralla, M. Shawcross, M.A. Stoyer, C.Y. Wu, and N.V. Zamfir:
B(E2) values and the search for the critical point symmetry X(5) in ^{104}Mo and ^{106}Mo
Phys. Rev. **C67** (2003) 054315

S. Jakschik, U. Schroeder, T. Hech, D. Krueger, G. Dollinger, A. Bergmaier, C. Luhmann, and J. Bartha:
Physical Characterisation of Thin $Ald - AL_2O_3$ Films
Appl. Surf. Sci. **211** (2003) 352

J. Jochum for the CRESST Collaboration:
The CRESST Dark Matter search
Nuclear Physics B (Proc. Suppl.) **124** (2003) 189

N. Kaiser:
Three body spin orbit forces from chiral two pion exchange
Phys.Rev. **C68** (2003) 054001

N. Kaiser:
Nuclear energy density functional from chiral pion nucleon dynamics: isovector spin orbit terms
Phys.Rev. **C68** (2003) 014323

N. Kaiser:
Spectral functions of isoscalar scalar and isovector electromagnetic form factors of the nucleon at two loop order
Phys.Rev. **C68** (2003) 025202

N. Kaiser:
Induced pseudoscalar form-factor of the nucleon at two loop order in chiral perturbation theory
Phys.Rev. **C67** (2003) 027002

N. Kaiser:
Isovector nuclear spin orbit interaction from chiral pion nucleon dynamics
Nucl.Phys. **A720** (2003) 157

N. Kaiser, S. Fritsch, and W. Weise:
Nuclear energy density functional from chiral pion-nucleon dynamics
Nucl.Phys. **A724** (2003) 47

S.A. Karamian, J.S. Forster, J.U. Andersen, W. Assmann, C. Broude, J. Chevallier, J.S. Geiger, F. Grüner, V.A. Khodyrev, F. Malaguti, and A. Uguzzoni:
Fission lifetimes of Th nuclei measured by crystal blocking
Eur. Phys. Journ. **A17** (2003) 49

S. Karsch, S. Düsterer, H. Schwoerer, F. Ewald, D. Habs, M. Hegelich, G. Pretzler, A. Pukhov, K. Witte, and R. Sauerbrey:
Ion acceleration with High Intensity Lasers - Comparison of Front and Rear Surface Acceleration by TOF Neutron Spectroscopy
Phys. Rev. Lett. **91** (2003) 015001

O. Kester, T. Sieber, S. Emhofer, F. Ames, K. Reisinger, P. Reiter, P.G. Thirolf, D. Habs, B. Wolf, S. Franchoo, G. Huber, R. von Hahn, H. Podlech, R. Repnow, J. Cederkall, J. Fitting, M. Lauer, H. Scheit, D. Schwalm, O. Forstner, F. Wenander, T. Nilsson, L. Weissman, H. Fynbo, U.C. Bergmann, J. Äystö, P. van den Bergh, P. van Duppen, M. Huyse, N. Warr, D. Weisshaar, J. Eberth, B. Jonson, G. Nyman, M. Pantea, H. Simon, G. Schrieder, A. Richter, and O. Tengblad:
Accelerated Radioactive beams from REX-ISOLDE
Nucl. Instr. Meth. **B204** (2003) 20

T. Kirsten *et al.*, for the GNO Collaboration:
Progress in GNO
Nuclear Physics B (Proc. Suppl.) **118** (2003) 33

J. Kleinert, S. Hannemann, B. Eike, U. Eisenbarth, M. Grieser, R. Grimm, G. Gwinner, S. Karpuk, G. Saathoff, U. Schramm, D. Schwalm, and M. Weidemüller :
Laser-cooled ions and atoms in a storage ring
Hyp. Int. **146/147** (2003) 189

K. Knie, A. Elhardt, T. Faestermann, G. Korschinek, C. Lierse, G. Rugel, and A. Stippschild:
Search for A=60 fragments from neutron-induced fission with accelerator mass spectrometry
Nuclear Physics **A723** (2003) 343

U. Köster, V.N. Fedoseyev, A.N. Andreyev, U.C. Bergmann, R. Catherall, J. Cederkall, M. Dietrich, H. De Witte, D.V. Fedorov, L. Fraile, S. Franchoo, H. Fynbo, U. Georg, T. Giles, M. Gorska, M. Hannawald, M. Huyse, A. Joinet, O.C. Jonsson, K.L. Kratz, K. Kruglov, Ch. Lau, J. Lettry, V.I. Mishin, M. Oinonen, K. Partes, K. Perajarvi, B. Pfeiffer, H.L. Ravn, M.D. Seliverstov, P.G. Thirolf, K. Van de Vel, P. van Duppen, J. Van Roosbroeck, L. Weissman, and the IS365/IS387/IS393/ISOLDE Collaborations:
On-line yields obtained with the ISOLDE RILIS
Nucl. Instr. Meth. **B204** (2003) 347

E. Kolomeitsev, N. Kaiser, and W. Weise:
Chiral dynamics of deeply bound pionic atoms
Phys.Rev.Lett. **90** (2003) 092501

E. Kolomeitsev, N. Kaiser, and W. Weise:
Chiral dynamics and deeply bound pionic states of Pb and Sn isotopes
Nucl.Phys. **A721** (2003) 835

A. Krasznahorkay, M. Csatlos, L. Csige, Y. Eisermann, T. Faestermann, Z. Gacsi, G. Graw, J. Gulyas, D. Habs, M.N. Harakeh, M. Heil, R. Hertenberger, F. Käppeler, H.J. Maier, Z. Mate, R. Reifarth, P.G. Thirolf, J. Timar, and H.-F. Wirth:
Hyperdeformation and clustering in the actinide region
Acta Physica Hungarica New Series-Heavy Ion Physics **18** (2003) 323

H. Kröger, C. Ronning, H. Hofsäss, P. Neumaier, L. Görgens, and G. Dollinger:
Diffusion in Diamond-Like Carbon
Diam. Rel. Mat. **12** (2003) 2042

T. Kröll, D. Bazzacco, R. Venturelli, B. Quintana, C.A. Ur, M. Bellato, R. Isocrate, Ch. Manea, R. Menegazzo, P. Pavan, C. Rossi Alvarez, E. Farnea, A. Gadea, D. Rosso, P. Spolaore, F. Camera, B. Million, E. Musso, A. Pullia, O. Wieland, G. Casati, A. Geraci, G. Ripamonti, and M. Descovich:
Gamma-ray tracking with the MARS detector
AIP Conference Proceedings **656** (2003) 357

R. Krücken and J. Simpson:
AGATA: The Advanced Gamma Tracking Array
Nucl. Phys.News **13,4** (2003) 15

G.J. Kumbartzki, N. Benczer-Koller, J. Holden, G. Jakob, T.J. Mertzimekis, M.J. Taylor, K.-H. Speidel, R. Ernst, A.E. Stuchbery, C.W. Beausang, and R.Krücken:
Competition between proton and neutron excitations in ^{96}Zr
Phys. Lett. **B562** (2003) 193

J.-C. Lanfranchi *et al.*:
Development of Highly Efficient Cryogenic Detectors for GNO
Nuclear Physics B (Proc. Suppl.) **118** (2003) 446

A. Leistenschneider, T. Aumann, K. Boretzky, L.F. Canto, B.V. Carlson, D. Cortina, U.D. Pramanik, T.W. Elze, H. Emling, H. Geissel, A. Grünschloss, K. Helariutta, M. Hellström, M.S. Hussein, S. Ilievski, K. Jones, J.V. Kratz, R. Kulessa, L. Khiem, E. Lubkiewicz, G. Münzenberg, R. Palit, P. Reiter, C. Scheidenberger, K.H. Schmidt, H. Simon, K. Sümmerer, E. Wajda, and W. Walus:
Fragmentation of exotic oxygen isotopes
Braz. Journ. Phys. **33** (2003) 328

J. Leske, K.-H. Speidel, O. Kenn, S. Schielke, G. Müller, J. Gerber, N. Benczer-Koller, G.J. Kumbartzki, and P. Maier-Komor:
New Measurements of the g Factors of the ^{20}Ne(4_1^+) State
Phys. Lett. **B551** (2003) 249

S. Mändl, J.W. Gerlach, W. Assmann, and B. Rauschenbach:
Thickness of ion implanted layers as determined by elastic recoil detection analysis and spectroscopic ellipsometry
Nucl. Instr. and Meth. **B206** (2003) 668

S. Mändl, J.W. Gerlach, W. Assmann, and B. Rauschenbach:
Phase formation and diffusion after nitrogen PIII in Molybdenum
Surf. Coat. Technol. **174-175** (2003) 1238

S. Mändl, D. Manova, J.W. Gerlach, W. Assmann, H. Neumann, and B. Rauschenbach:
High temperature Nitrogen plasma immersion ion implantation into Molybdenum
Surf. Coat. Technol. **180-181** (2004) 362

S. Merchel, U. Ott, S. Herrmann, B. Spettel, T. Faestermann, K. Knie, G. Korschinek, G. Rugel, and A. Wallner:
Presolar nanodiamonds: faster, cleaner, and limits on platinum-HL
Geochimica et Cosmochimica Acta **67** (2003) 4949

A. Metz, Y. Eisermann, A. Gollwitzer, R. Hertenberger, B.D. Valnion, G. Graw, and J. Jolie:
One neutron transfer reaction spectroscopy of ^{195}Pt as a detailed test of the U(6/12) supersymmetry (vol 61, art no 064313, 2000)
Phys.Rev. **C67** (2003) 049901

F. Meyer-Wildhagen:
$\rho\pi$-states in the Antiproton-Neutron Annihilation into $\pi^-3\pi^0$
Nucl. Phys. **A721** (2003) C605

H.D. Mieskes, W. Assmann, F. Bell, F. Grüner, H. Kucal, Z.G. Wang, and M. Toulemonde:
Electronic and nuclear thermal spike effects in sputtering of metals with energetic heavy ions
Phys. Rev. **B67** (2003) 155414

N. Marginean, D. Bucurescu, C. Rossi Alvarez, C.A. Ur, L. D. Skouras, L. P. Johnstone, D. Bazzacco, S. Lunardi, G. de Angelis, M. Axiotis, E. Farnea, A. Gadea, M. Ionescu-Bujor, A. Iordachescu, W. Krolas, T. Kröll, S. M. Lenzi, T. Martinez, R. Marginean, R. Menegazzo, D. R. Napoli, P. Pavan, M. De Poli, B. Quintana, C. Rusu, P. Spolaore, and J. Wrzesinski:
Yrast isomers in ^{95}Ag, ^{95}Pd, and ^{94}Pd
Phys. Rev. **C67** (2003) 061301(R)

F. Mühlberger, A. Ulrich, and P. Wallenta:
Moleküle im Anflug, Anwendung inkohärenter Vakuumultraviolett- Lichtquellen zur Photoionisation in der Massenspektrometrie
Laser + Photonik September (2003) 12

A. Nass, G. Graw, R. Hertenberger, for the HERMES Collaboration:
The HERMES polarized atomic beam source
Nucl.Instrum.Meth. **A505** (2003) 633

J. Ollier, R. Chapman, M. Davison, M. Labiche, X. Liang, K.-M. Spohr, G. de Angelis, D. R. Napoli, T. Martinez, M. Axiotis, D. Bazzacco, E. Farnea, T. Kröll, S. Lunardi, and A. G. Smith:
Yrast states in neutron-rich ^{41}Cl
Phys. Rev. **C67** (2003) 024302

The OPAL Collaboration:
W Boson Polarisation at LEP2
CERN-EP (2003) 088

The OPAL Collaboration:
Search for Chargino and Neutralino Production at $\sqrt{s} = 192 - 209$ GeV at LEP
CERN-EP (2003) 090

The OPAL Collaboration:
Measurement of the partial widths of the Z into up- and down-type quarks
CERN-EP (2003) 082

The OPAL Collaboration:
Flavour Independent Search for Higgs Bosons decaying into Hadronic Final States in e^+e^- Collisions at LEP
CERN-EP (2003) 081

The OPAL Collaboration:
Experimental studies of unbiased gluon jets from e^+e^- annihilations using the jet boost algorithm
CERN-EP (2003) 067

The OPAL Collaboration:
Tests of the Standard Model and Constraints on New Physics from Measurements of Fermion-Pair Production at 189-209 GeV at LEP
CERN-EP (2003) 053

The OPAL Collaboration:
Measurement of Charged Current Triple Gauge Boson Couplings using W Pairs at LEP
CERN-EP (2003) 042

The OPAL Collaboration:
Search for the Single Production of Doubly-Charged Higgs Bosons and Constraints on their Couplings from Bhabha Scattering
Phys.Lett. **B577** (2003) 93-108

The OPAL Collaboration:
Search for Anomalous Production of Di-lepton Events with Missing Transverse Momentum in e^+e^- Collisions at $\sqrt{s} = 183 - 209$ GeV
CERN-EP (2003) 040

The OPAL Collaboration:
Study of Z Pair Production and Anomalous Couplings in e^+e^- Collisions at $\sqrt{s}$ between 190 GeV and 209 GeV
CERN-EP (2003) 049

The OPAL Collaboration:
Measurement of Heavy Quark Forward-Backward Asymmetries and Average B Mixing Using Leptons in Hadronic Z Decays
Phys.Lett. **B577** (2003) 18-36

The OPAL Collaboration:
A study of charm production in beauty decays with the OPAL detector at LEP
CERN-EP (2003) 050

The OPAL Collaboration:
A Study of $W^+W^-\gamma$ Events at LEP
Phys.Lett. **B580** (2004) 17-36

The OPAL Collaboration:
Search for R-Parity Violating Decays of Scalar Fermions at LEP
CERN-EP (2003) 036

The OPAL Collaboration:
Tests of models of color reconnection and a search for glueballs using gluon jets with a rapidity gap
CERN-EP (2003) 031

The OPAL Collaboration:
Measurement of Isolated Prompt Photon Production in Photon-Photon Collisions at $\sqrt{s} = 183 - 209$ GeV
Eur.Phys.J. **C31** (2003) 491-502

The OPAL Collaboration:
Search for pair-produced leptoquarks in e^+e^- interactions at $\sqrt{s} = 189 - 209$ GeV
Eur.Phys.J. **C31** (2003) 281-305

The OPAL Collaboration:
Search for Stable and Long-Lived Massive Charged Particles in e^+e^- Collisions at $\sqrt{s} = 189 - 209$ GeV
Phys.Lett. **B572** (2003) 8-20

The OPAL Collaboration:
Search for the Standard Model Higgs Boson at LEP
Phys.Lett. **B565** (2003) 61-75

The OPAL Collaboration:
Test of non-commutative QED in the process $e^+e^- \to \gamma\gamma$ at LEP
Phys.Lett. **B568** (2003) 181-190

The OPAL Collaboration:
Bose-Einstein Correlations of pi^0 pairs from hadronic Z0 Decays
Phys.Lett. **B559** (2003) 131-143

I. Peter, W. von Oertzen, S. Thummerer, H. G. Bohlen, B. Gebauer, J. Gerl, M. Kaspar, I. Kozhoukharov, T. Kröll, M. Rejmund, H.J. Wollersheim, and I. J. Thompson:
Enhanced neutron pair transfer and collective excitations in the system ^{206}Pb + ^{118}Sn at barrier energies
Eur. Phys. J. **A16** (2003) 509

R.G. Pizzone, C. Spitaleri, M. Lattuada, A. Musumarra, M.G. Pellegriti, C. Rolfs, D. Miljanic, A. Di Pietro, P. Figuera, S. Romano, S. Tudisco, A. Tumino, S. Typel, H.H. Wolter, V. Castellani, S. Degl'Innocenti, and A. Imperio:
The ^{7}Li(p,α)^{4}He fusion reaction studied via the Trojan Horse Method and its astrophysical implications
Nucl.Phys. **B118** (2003) 455

R.G. Pizzone, C. Spitaleri, M. Lattuada, A. Musumarra, M.G. Pellegriti, S. Romano, A. Tumino, S. Cherubini, P. Figuera, D. Miljanic, C. Rolfs, S. Typel, H.H. Wolter, V. Castellani, S. Degl'Innocenti, and A. Imperio:
Bare astrophysical S(E)-factor for the ^{6}Li(d, α)^{4}He and ^{7}Li(p,α)^{4}He reactions at astrophysical energies
Nucl.Phys. **A718** (2003) 496c

Zs. Podolyak, P.G. Bizzeti, A.M. Bizzeti-Sona, S. Lunardi, D. Bazzacco, A. Dewald, A. Algora, G. de Angelis, E. Farnea, A. Gadea, D. R. Kasemann, T. Klug, T. Kröll, S. M. Lenzi, D. R. Napoli, C. M. Petrache, R. Peusquens, C. Rossi Alvarez, T. Martinez, and C.A. Ur:
Lifetime measurements in ^{148}Gd
Eur. Phys. J. **A17** (2003) 29

U.D. Pramanik, T. Aumann, K. Boretzky, B.V. Carlson, D. Cortina, T.W. Elze, H. Emling, H. Geissel, A. Grünschloss, M. Hellström, S. Ilievski, J.V. Kratz, R. Kulessa, Y. Leifels, A. Leistenschneider, E. Lubkiewicz, G. Münzenberg, P. Reiter, H. Simon, K. Sümmerer, E. Wajda, and W. Walus:
Coulomb breakup of the neutron-rich isotopes C-15 and C-17
Phys. Lett. **B551** (2003) 63

G. Rainovski, E. S. Paul, H. J. Chantler, P. J. Nolan, D.G. Jenkins, R. Wadsworth, P. Raddon, A. Simons, D. B. Fossan, T. Koike, K. Starosta, C. Vaman, E. Farnea, A. Gadea, T. Kröll, R. Isocrate, G. de Angelis, D. Curien, and V. I. Dimitrov:
Candidate chiral twin bands in the odd-odd nucleus ^{132}Cs: Exploring the limits of chirality in the mass A $\approx$ 130 region
Phys. Rev. **C68** (2003) 024318

P.H. Regan, A.D. Yamamoto, C.W. Beausang, N.V. Zamfir, R.F. Casten, J.-Y. Zhang, M.A. Caprio, G. Gürdal, A.A. Hecht, C. Hutter, R. Krücken, S.D. Langdown, D.A. Meyer, and J.J. Ressler:
The Highs and Lows of the A=100 Region: Vibration-To-Rotation Evolution in Mo and Ru Isotopes
AIP Conference Proceedings **656** (2003) 422

P.H. Regan, C.W. Beausang, N.V. Zamfir, R.F. Casten, J.-Y. Zhang, A.D. Yamamoto, M.A. Caprio, G. Gürdal, A.A. Hecht, C. Hutter, R. Krücken, S.D. Langdown, D.A. Meyer, and J.J. Ressler:
Signature for Vibrational to Rotational Evolution along the Yrast Line
Phys. Rev. Lett **90** (2003) 152502

P. Reichart, G. Dollinger, G. Datzmann, A. Hauptner, R. Hertenberger, and H.-J. Körner:
Sensitive 3D Hydrogen Microscopy Using High Energy Protons at Snake
Nucl. Instr. Meth. **B210** (2003) 135

T. Renk:
Emission of thermal photons and the equilibration time in heavy-ion collisions
Phys.Rev. **C67** (2003) 064901

J.J. Ressler, R. Krücken, C.W. Beausang, J.M. D'Auria, H. Amro, R.F. Casten, M.A. Caprio, G. Gürdal, C. Hutter, A.A. Hecht, D.A. Meyer, M. Sciacciatano, and N.V. Zamfir:
SASSYER: An old instrument for new physics at Yale
Nucl.Instr.Meth **B204** (2003) 141

W. Rühm, G. Rugel, T. Faestermann, K. Knie, A. Wallner, B. Heisinger, E. Nolte, A.A. Marchetti, R.E. Martinelli, K.L. Carroll, and G. Korschinek:
Cosmic-ray-induced ^{63}Ni - A potential confounder of fast-neutron-induced ^{63}Ni in copper samples from Hiroshima
European Physical Journal **A17** (2003) 633

C. Rummel and H. Hofmann:
Influence of microscopic transport coefficients on the formation probabilities for superheavy elements
Nucl.Phys. **A727** (2003) 24

T. Schätz, U. Schramm, and D. Habs :
Stability of crystalline ion beams
Hyp. Int. **146/147** (2003) 203

T. Schätz, U. Schramm, M. Bussmann, and D. Habs:
Crystallization of Ion Beams in the rf storage ring Pallas (Technical Review)
Appl. Phys. **B76** (2003) 183

S. Schielke, K.-H. Speidel, O. Kenn, J. Leske, N.A. Gemein, M. Offer, Y.Y. Sharon, L. Zamick, J. Gerber, and P. Maier-Komor:
First Measurements and Shell Model Interpretation of the g Factor of the 2_1^+ State in Self-Conjugate Radioactive ^{44}Ti
Phys. Lett. **B567** (2003) 153

S. Schielke, D. Hohn, K.-H. Speidel, O. Kenn, J. Leske, N.A. Gemein, M. Offer, J. Gerber, P. Maier-Komor, O. Zell, Y.Y. Sharon, and L. Zamick:
Evidence for ^{40}Ca core excitation from g factor and $B(E2)$ measurements on the 2_1^+ states of ^{42,44}Ca
Phys. Lett. **B571** (2003) 29

R.A. Schneider, T. Renk, A. Polleri, M. Thaler, and W. Weise:
Probing the QCD phase diagram
Nucl.Phys. **A721** (2003) 243

W. Schott, J.M. Pendlebury, I. Altarev, S. Gröger, E. Gutsmiedl, F.J. Hartmann, S. Paul, G. Petzoldt, P. Schmidt-Wellenburg, and U. Trinks:
UCN production in superfluid helium
Eur.Phys.J. **A16** (2003) 599

U. Schramm, T. Schätz, M. Bussmann, and D. Habs:
Cooling and Heating of Crystalline Ion Beams
Journ. Phys. **B36** (2003) 561

U. Schramm, T. Schätz, M. Bussmann, and D. Habs:
Spatial Compression of Bunched Crystalline Ion Beams
Phys. Script. **T104** (2003) 189

M. Schubert, F. Grüner, W. Assmann, F. Bell, A. Bergmaier, L. Görgens, O. Schmelmer, G. Dollinger, S.A. Karamian, and J.U. Andersen:
Cooling and heating of channeled ions and corresponding charge state distributions
Nucl. Instr. Meth. **B209** (2003) 224

G. Sikler, D. Ackermann, F. Attallah, D. Beck, J. Dilling, A.F. Dodonov, S.A. Eliseev, H. Geissel, D. Habs, S. Heinz, F. Herfurth, F.P. Hessberger, S. Hofmann, H.J. Kluge, C. Kozhuharov, G. Marx, M. Mukherjee, J. Neumayr, Yu.N. Novikov, W.R. Plaß, W. Quint, S. Rahaman, D. Rodriguez, C. Scheidenberger, M. Tarisien, P.G. Thirolf, V. Varentsov, Z. Wang, C. Weber, M. Weidemüller, and Z. Zhou:
First On-Line Test of SHIPTRAP
Nucl. Instr. Meth. **B204** (2003) 482

K. Sonnabend, P. Mohr, A. Zilges, R. Hertenberger, H.-F. Wirth, G. Graw, and T. Faestermann:
First excited state of the s-process branching nucleus ^{95}Zr
Phys. Rev. **C68** (2003) 048802

K.-H. Speidel, S. Schielke, O. Kenn, J. Leske, D. Hohn, H. Hodde, J. Gerber, P. Maier-Komor, O. Zell, Y.Y. Sharon, and L. Zamick:
Nuclear Structure of the Stable Even-A Calcium Isotopes Based on New Experiments and Shell Model Calculations
Phys. Rev. **C68** (2003) 061302

M. Spiro and T. Lachenmaier:
Neutrino Properties and Neutrino Astronomy: Where do we stand, where are we going? - Experiments
Nucl. Phys. B (Proc. Suppl.) **118** (2003) 413

M. Stark *et al.*:
Detectors with Ir/Au thermometers for high count rate tests in the CRESST experiment
Nucl. Instr. Meth. **A** (accepted for publication)

H. Sternschulte, M. Schreck, B. Stritzker, A. Bergmaier, and G. Dollinger:
Groth and Properties of CVD Diamond Films Grown Under H_2S Addition
Diam. Rel. Mat. **12** (2003) 318

T. Straume, G. Rugel, A.A. Marchetti, W. Rühm, G. Korschinek, J.E. McAninch, K.L. Carroll, S. Egbert, T. Faestermann, K. Knie, R.E. Martinelli, A. Wallner, and C. Wallner:
Measuring fast neutrons in Hiroshima at distances relevant to atomic-bomb survivors
Nature **424** (2003) 539

T. Straume, A.A. Marchetti, G. Rugel, J.E. McAninch, W. Rühm, T. Faestermann, K. Knie, G. Korschinek, A. Wallner, C. Wallner, P. Men, K.L. Carroll, R.E. Martinelli, and S. Egbert:
Fast and thermal neutron activation measurements in Hiroshima: Comparisons with DS86 and DS02 calculations
Health Physics **84(6)** (2003) S189

R. Ströhmer:
Review of the Properties of the W Boson at LEP, and the Precision Determination of its Mass
Int.Journ.Mod.Phys. **A18** (2003) 28

J. Szerypo, D. Habs, S. Heinz, J. Neumayr, P.G. Thirolf, A. Wilfart, and F. Voit:
MAFFTRAP: Ion Trap System for MAFF
Nucl. Instr. Meth. **B204** (2003) 512

P.G. Thirolf, D. Gassmann, D. Habs, M. Hunyadi, A. Krasznahorkay, E. Mergel, H. Hübel, D. Pansegrau, D. Schwalm, M.J. Chromik, M. Csatlos, J. Domscheit, Y. Eisermann, T. Faestermann, G. Graw, A. Gorgen, J. Gulyas, K. Hauschild, R. Hertenberger, T. Härtlein, F. Kock, A. Lopez-Martens, Z. Mate, H.J. Maier, A. Metz, S. Neumann, A. Neusser, P. Reiter, G. Schönwaßer, and H. Scheit :
Detailed spectroscopy of superdeformed actinide nuclei
Acta Physica Hungarica New Series-Heavy Ion Physics **18** (2003) 317

S. Thummerer, W. von Oertzen, Tz. Kokalova, H. G. Bohlen, B. Gebauer, A. Tumino, T. N. Massey, G. de Angelis, M. Axiotis, A. Gadea, T. Kröll, N. Marginean, D. R. Napoli, M. De Poli, C.A. Ur, D. Bazzacco, S. M. Lenzi, C. Rossi Alvarez, S. Lunardi, R. Menegazzo, P.G. Bizzeti, and A.M. Bizzeti-Sona:
Gamma-decay study of ^{21}Na and ^{21}Ne, octupole bands in ^{21}Ne
J. Phys. G **29** (2003) 509

I. Tomandl, T. von Egidy, J. Honzatko, V. Bondarenko, H.-F. Wirth, D. Bucurescu, V.Y. Ponomarev, G. Graw, R. Hertenberger, Y. Eisermann, and S. Raman:
Nuclear structure of ^{131}Te studied with (n,γ) and $(\vec{d},p)$ reactions
Nuclear Physics **A717** (2003) 149

M. Toulemonde, W. Assmann, C. Trautmann, F. Grüner, H.D. Mieskes, H. Kucal, and Z.G. Wang:
Electronic sputtering of metals and insulators by swift heavy ions
Nucl. Instr. Meth. **B212** (2003) 346

S. Typel, T. v. Chossy, and H.H. Wolter:
Relativistic Mean Field Model with Generalized Derivative Nucleon-Meson Couplings
Phys.Rev. **C67** (2003) 034002

W. Vandervorst, T. Janssens, R. Loo, M. Caymax, I. Peytier, R. Lindsay, J. Frühauf, A. Bergmaier, and G. Dollinger:
An (un)solvable problem in SIMS: B-interfacial profiling
Appl. Surf. Sci. **203** (2003) 371

V. Varentsov and D. Habs:
'Fair-wind gas cell' - a new concept of a buffer gas cell design
Nucl. Instr. Meth. **A496** (2003) 286

W. Weise:
Chiral dynamics and the hadronic phase of QCD
Proceedings Int. School of Physics "Enrico Fermi", Course CLIII, Soc. Italiana di Fisica, Bologna (2003) 473

W. Weise:
Chiral dynamics in nuclear systems
Prog.Theor.Phys.Suppl. **149** (2003) 1

W. Weise:
Baryons 2002: Outlook
Proceedings of the 9th International Conference on the Structure of Baryons, C.E. Carlson and B.A. Mecking, eds., World Scientific, Singapore (2003) 290

W. Weise:
Chiral Dynamics and Hadronic Atoms
Proceedings of the International Workshop on Exotic Atoms (EXA02), P. Kienle, J. Marton and J. Zmeskal, eds., Austrian Academy of Sciences Press, Vienna (2003) 49

O. Wieland, T. Kröll, D. Bazzacco, R. Venturelli, F. Camera, B. Million, E. Musso, B. Quintana, C.A. Ur, M. Bellato, R. Isocrate, Ch. Manea, R. Menegazzo, P. Pavan, C. Rossi Alvarez, E. Farnea, A. Gadea, D. Rosso, P. Spolaore, A. Pullia, G. Casati, A. Geraci, G. Ripamonti, and M. Descovich:
Gamma-ray Tracking with Segmented HPGe Detectors
Brazilian Journal of Physics **33** (2003) 206

S.J. Williams, M.A. Bentley, D.D. Warner, A.M. Bruce, J.A. Cameron, M.P. Carpenter, P. Fallon, L. Frankland, W. Gelletly, R.V.F. Janssens, D.T. Joss, C.D. O'Leary, C.J. Lister, A. Poves, P.H. Regan, P. Reiter, B. Rubio, D. Seweryniak, C.E. Svensson, and S.M. Vincent:
Anomalous Coulomb matrix elements in the f(7/2) shell
Phys. Rev. **C68** (2003) 011301

H.H. Wolter and S. Typel:
Indirect methods for astrophysical nuclear reaction rates
Nucl.Phys. **A722** (2003) 215c

M. Würkner, J. de Boer, A.I. Levon, M. Loewe, J. Kvasil, J. Srebrny, P.J. Napiorkowski, J. Iwanicki, and T. Czosnyka:
Coulomb excitation and structure of the rotational bands in ^{231}Pa
Nucl.Phys. **A725** (2003) 3

H. Wulandari *et al.*:
Neutron flux underground revisited
submitted to Astroparticle Physics (hep-ex/0312050)