V
PUBLICATIONS

V.1
Publications and Reports

The ALEPH, CDF, DELPHI, L3, OPAL, SLD Collaborations:
Combined results on b-hadron production rates and decay properties
CERN-EP-2001-050

The ATLAS collaboration:
Wire Position Measurement for ATLAS Muon Drift Tubes by X-rays
JINR-P13-2001-197

The ATLAS collaboration:
The First Precision Drift Tube Chambers for the ATLAS Muon Spectrometer
MPI-PHE-2001-03

The ATLAS collaboration:
Construction and test of MDT chambers for the ATLAS muon spectrometer
Nucl.Inst.Meth **A461** (2001) 17-20

The ATLAS collaboration:
Construction and Test of the Precision Drift Chambers for the ATLAS Muon Spectrometer
IEEE Trans.Nucl.Sci. **48** (2001) 302-307

A. Abele for the Crystal Barrel Collaboration:
Study of f_0 decays into four neutral pions
Eur.Phys.J. **C19** (2001) 667-675

M.I. Adamovich, S. Paul, and the WA89 Collaboration:
A study of Sigma$^{+\mathrm{or}-}$, Sigma*$^{+\mathrm{or}-}$ and Anti-Sigma$^{-}_{1385}$ production in the hyperon beam experiment WA89 at CERN
Eur.Phys.J. **C22** (2001) 255-267

M.C. Altunbas, M. Capeans, K. Dehmelt, J. Ehlers, J. Friedrich, I. Konorov, A. Gandi, S. Kappler, B. Ketzer, R. de Oliveira, S. Paul, A. Placci, L. Ropelewski, F. Sauli, F. Simon, and M. van Stenis:
Construction test and commissioning of the triple-gem tracking detector for COMPASS
CERN-EP-2002-008, Jan 2002, 58pp
Submitted to Nucl.Instr.Meth **A**

M.I. Adamovich, S. Paul, and the WA89 Collaboration:
A measurment of of K*$^{+\mathrm{or}-}$ production in the hyperon beam experiment at CERN
Eur.Phys.J. **C22** (2001) 47-54

C. Amsler for the Crystal Barrel Collaboration:
A high resolution search for the tensor glueball candidate ξ(2230)
Phys.Lett. **B520** (2001) 175-182

G. Angloher , P. Hettl , M. Huber , J. Jochum , F. v. Feilitzsch , and R. L. Mößbauer :
Energy Resolution of 12 eV at 5.9 keV from Aluminum Superconducting Tunnel Junction Detectors
J.Appl.Phys. **89**(2) (2001) 1425

G. Angloher , M. Huber , J. Jochum , F. v. Feilitzsch , R. L. Mößbauer , and G. Safran :
Effects of Quasiparticle Recombination and Photoelectron Escape in Aluminum Tunnel Junction Detectors
J. Low Temp. Phys. **123** (3/4) (2001) 165

G. Angloher , M. Bruckmayer, C. Bucci, M. Bühler , S. Cooper, C. Cozzini , P. DiStefano , F. v. Feilitzsch , T. Frank , D. Hauff , T. Jagemann , J. Jochum, V. Jörgens , R. Keeling, H. Kraus , M. Loid , J. Marchese , O. Meier , U. Nagel , F. Pröbst , Y. Ramachers, A. Rulofs, J. Schnagl, W. Seidel, I. Sergeyev, M. Sisti , M. Stark, S. Uchaikin, L. Stodolsky, H. Wulandari, and L. Zerle :
Limits on WIMP Dark Matter using Sapphire Cryogenic Detectors
accepted for publication in Astroparticle Physics, 2001

A. Arazi, T. Faestermann, J. Fernandez-Niello, K. Knie, G. Korschinek , E. Richter , G. Rugel, A. Wallner, and C. Wallner:
Excitation function of the ^{25}Mg(p,γ)^{26}Al at stellar energies studied via AMS
Verhandl. DPG (VI) 36 (2001) HK13.2

C. Arpesella for the Borexino-Collaboration:
Measurement of extremely low radioactivity levels in Borexino
Submitted to Astropart.Phys., hep-ex/0109031, Sep 2001

M. Böhmer, T. Eberl, A. Elhardt, L. Fabbietti, J. Friese, R. Gernhäuser, J. Homolka , A. Kastenmüller, P. Kienle, H.-J. Körner, P. Maier-Komor, M. Münch, B. Sailer, W. Schön , A. Ulrich, J. Wieser, and K. Zeitelhack:
Lepton identification with the CsI based RICH of HADES
Nucl.Instr.Meth. **A471** (2001) 25

M. Böhmer, T. Eberl, A. Elhardt, L. Fabbietti, J. Friese, R. Gernhäuser, J. Homolka , A. Kastenmüller, H.-J. Körner, M. Münch, B. Sailer, W. Schön, S. Schröder , S. Winkler, for the HADES collaboration:
Online Efficiency Measurements for the HADES RICH
Verhandl. DPG (VI) 36 (2001) HK42.2

M. Böhmer, T. Eberl, A. Elhardt, L. Fabbietti, J. Friese, R. Gernhäuser, J. Homolka , A. Kastenmüller, H.-J. Körner, M. Münch, B. Sailer, W. Schön, S. Schröder, S. Winkter , K. Zeitelhack, for the HADES collaboration:
Performance of the HADES-RICH Detector
Verhandl. DPG (VI) 36 (2001) HK9.4

V. Baran, M. Colonna, M. Di Toro, M. Zielinska-Pfabe, and H. H. Wolter:
What can we learn from nuclear matter instabilities?
Proceedings: Structure of the Nucleus at the Dawn of the Century, Bologna 2000, ed. G.C. Bonsignori, M. Bruno, A. Ventura, D. Vretenar, World Scientific, 2001, Vol.1, p.293

P. Bartsch, D. Baumann, J. Bermuth, R. Bohm, K. Bohinc, D. Bosnar, M. Ding, M. Distler, D. Drechsel, D. Elsner, I. Ewald, J. Friedrich, J. M. Friedrich, S. Grozinger, S. Hedicke, P. Jennewein, M. Kahrau, S.S. Kamalov, F. Klein, K.W. Krygier, A. Liesenfeld, H. Merkel, P. Merle, U. Muller, R. Neuhausen, T. Pospischil, M. Potokar, G. Rosner, H. Schmieden, M. Seimetz, A. Sule, L. Tiator, A. Wagner, T. Walcher, and M. Weis:
Measurement of the beam helicity assymmetry in the P(polarized-E—E-prime P) PIO Reaction at the energy of the Delta(1232) resonance
e-Print Archive, nucl-ex/0112009, 5pp

S. D. Bass, S. Wetzel, and W. Weise:
Axial $U(1)$ dynamics in η and η-prime photoproduction
Nucl.Phys. **A686** (2001) 429

G. Baur, K. Hencken, D. Trautmann, S. Typel, and H. H. Wolter:
The Past and Future of Coulomb Dissociation
Nuclei Far from Stability and Astrophysics, by D.N. Poenaru *et al.* (eds.), Kluwer Academic Publishers, 2001, 247

G. Baur, K. Hencken, D. Trautmann, S. Typel, and H. H. Wolter:
Electromagnetic dissociation as a tool for nuclear structure and astrophysics
Progress in Particle and Nuclear Physics **46** (2001) 99

P. F. Bedaque and H. W. Grießhammer:
Quartet S Wave Neutron Deuteron Scattering in Effective Field Theory
Nucl.Phys. **A671** (2000) 357

N. Beisert and B. Borasoy:
$\eta\eta$-prime mixing in $U(3)$ chiral perturbation theory
Eur.Phys.J. **A11** (2001) 329

A. Bergmaier, G. Dollinger, A. Aleksov, P. Gluche, and E. Kohn:
Deuterium depth profiles at cvd diamond surfaces
Surface Science **481** (2001) L433-L436

V. Bernard, N. Kaiser, and U.-G. Meißner:
The Pion Charge Radius from Charged Pion Electroproduction
Phys.Rev. **C62** (2000) 028201

V. Bernard, N. Kaiser, and U.-G. Meißner:
Aspects of Near Threshold Neutral Pion Photoproduction off Protons
Eur.Phys.J. **A11** (2001) 209

J. Bielcik, L. Fabbietti, R. Holzmann, for the HADES collaboration:
Simulation of HADES dilepton spectra from C+C collisions
Verhandl. DPG (VI) 36 (2001) HK9.1

S. M. Bilenky, T. Lachenmaier , W. Potzel , and F. v. Feilitzsch:
Implications of the SNO and the Homestake results for the Borexino experiment
hep–ph/0109200, Sep 2001

M. Binder:
Suche nach der Produktion von einzelnen top-Quarks bei LEP2 im leptonischen Kanal
Verhandl. DPG (VI) 36 (2001) T605.5

B. Borasoy:
The Eta-Prime in Baryon Chiral Perturbation Theory
Phys.Rev. **D61** (2000) 014011

B. Borasoy:
The Eta-Prime and the Topological Charge Density
Eur.Phys.J. **A7** (2000) 255

B. Borasoy:
The Electric Dipole Moment of the Neutron in Chiral Perturbation Theory
Phys.Rev. **D61** (2000) 114017

B. Borasoy:
Photoproduction of Eta and Eta' Mesons off Nucleons Close to Threshold
Eur.Phys.J. **A9** (2000) 95

B. Borasoy and G. Müller:
Weak Hyperon Decays in Heavy Baryon Chiral Perturbation Theory: Renormalization and Applications
Phys.Rev. **D62** (2000) 054020

B. Borasoy and D. Lee:
Study of relativistic bound states in a scalar model using diagonalization/Monte Carlo methods
Nucl.Phys. **A696** (2001) 287

B. Borasoy and S. Wetzel:
$U(3)$ **chiral perturbation theory with infrared regularization**
Phys.Rev. **D63** (2001) 074019

K. Borer, S. Janos, Z. Li, B. Dezillie, C. Da Via, V. Granata, L. Casagrande, R.W.I. de Boer, C. Lourenco, T.O. Niinikoski, V.G. Palmieri, S. Chapuy, Z. Dimcovski, E. Grigoriev, W. Bell, S.R.H. Devine, G. Ruggiero, V. O'Shea, K. Smith, P. Berlund, W. de Boer, F. Hauler, S. Heising, L. Jungermann, M. Abreu, P. Rato, P. Sousa, V. Cindro, M.Mikuz, M. Zavrtanik, A. Esposito, S. Paul, S. Buontempo, N. D'Ambrosio, S. Pagano, V. Eremin, and E. Verbitskaya:
Charge collection efficiency of irradiated cryogenic double-p silicon detector
Nucl.Instr.Meth. **462** (2001) 474

C. Bucci for the CRESST-Collaboration:
Update of the Proposal to the LNGS for a second Phase of the CRESST Dark Matter Search
MPI-PHE-2001-02, Feb 2001

B. Bußmann:
Bestimmung der Masse des W-Bosons im semileptonischen Kanal
Verhandl. DPG (VI) 36 (2001) T506.2

F. Cappuzzello, A. Cunsolo, S. Fortier, A. Foti, M. Khaled, H. Laurent, H. Lenske, J.M. Maison, A.L. Melita, C. Nociforo, L. Rosier, C. Stephan, L. Tassan-Got, J.S. Winfield, and H. H. Wolter:
Excited states of ^{11}Be
Phys.Lett. **B516** (2001) 21

J. Caro Ramon, N. Kaiser, W. Weise, and S. Wetzel:
$SU(3)$ **Chiral Dynamics with Coupled Channels: Inclusion of** P**-Waves**
Nucl.Phys. **A672** (2000) 249

L. Casagrande, S. Paul, for the RD39 Collaboration:
Review on the development of cryogenic silicon detectors
Prepared for the 8th Pisa Meeting on Advanced Detector: Frontier Detectors for Frontier Physics, La Biodola, Isola d'Elba, Italy, 21-25 May 2000
Nucl.Instr.Meth. **A461** (2001) 150-154

L. Casagrande, S. Paul, for the RD39 Collaboration:
Cryogenic technology for tracking detectors
Prepared for the 8th Pisa Meeting on Advanced Detector: Frontier Detectors for Frontier Physics, La Biodola, Isola d'Elba, Italy, 21-25 May 2000
Nucl.Instr.Meth. **A461** (2001) 197-199

S. Cherubini, W. Galster, J.S. Graulich, P. Leleux, M. Loiselet, A. Musumarra, A. Ninane, G. Ryckewaert, J. Vervier, M. Aliotta, P. Figuera, M. Lattuada, M.G. Pellegriti, C. Spitaleri, T. Davinson, A. Di Pietro, A.M. Laird, A.N. Ostrowski, A.C. Shotter, P.J. Woods, J. Hinnefeld, S. Typel, and H. H. Wolter:
The $^{15}O(\alpha,\gamma)^{19}Ne$*** reaction using a** ^{18}Ne **radioactive beam**
Nucl.Phys. **A688** (2001) 465

T. v. Chossy and W. Stocker:
Compressed nuclei in a schematic relativistic mean-field description
Phys.Lett. **B507** (2001) 109

S. Chouridou:
Calibration of the wire position in an ATLAS MDT chamber
Verhandl. DPG (VI) 36 (2001) T407.3

G. Datzmann, G. Dollinger, C. Goeden, A. Hauptner, H.-J. Körner, P. Reichart, and O. Schmelmer:
The munich microprobe SNAKE: first results using 20 mev protons and 90 mev sulfur ion
Nucl.Instr.Meth. **B181** (2001) 20

M. Di Toro, V. Baran, M. Colonna, S. Maccarone, M. Zielinska-Pfabe, and H. H. Wolter:
Asymmetry effects in nuclear fragmentation
Nucl.Phys. **A681** (2001) 426; nucl.-th/0009080

S. Dieterich, J. Friedrich, and the A1 Collaboration:
Polarization transfer in the ^{4}He$(\vec{e}, e'\vec{p})^3$He reaction
Phys.Lett. **B500** /1-2 (2001) 47-52

G. Duckeck:
The Z^0 Lineshape and Lepton Asymmetries at LEP
Proceedings of the 30th International Conference on High-Energy Physics (ICHEP 2000), Osaka, World Scientific, 2001

J. Eberth, G. Pascovici, H.G. Thomas, N. Warr, D. Weißhaar, D. Habs, P. Reiter, P. G. Thirolf, D. Schwalm, C. Gund, H. Scheit, M. Lauer, P. van Duppen, S. Franchoo, M. Huyse, R.M. Lieder, W. Gast, J. Gerl, K.P. Lieb, and the MINIBALL Collaboration:
MINIBALL - A Ge detector array for radioactive ion beam facilities
Prog.Part.Nucl.Phys. **46** (2001) 389

J. Edelmann, G. Piller, N. Kaiser, and W. Weise:
Resonances and Higher Twist in Polarized Lepton-Nucleon Scattering
Nucl.Phys. **A665** (2000) 125

T. v. Egidy, H.-F. Wirth, I. Tomandl, J. Honzatko, V. Bondarenko, D. Bucurescu, Y. Eisermann, G. Graw, and R. Hertenberger:
The special nuclear structure of the Te isotopes
In "Nuclear structure physics" eds, R. Casten, J. Jolie, U. Kneissl, P. Lieb, World Scientific, Singapore, 2001, 89-97

O. Engels, L. Beck, G. Bollen, D. Habs, G. Marx, J. Neumayr, U. Schramm, S. Schwarz, P. G. Thirolf, and V. Varentsov:
First measurements with the gas cell for SHIPTRAP
Hyperfine Interactions **132** (2001) 505

I. Ewald, J. Friedrich, and the A1 Collaboration:
Coherent π^0 treshold production from the deuteron at $q^2 = -0.1\,GeV^2/c^2$
Phys.Lett. **B499**/3-4 (2001) 238-244

M. Faessler:
How to measure the mass of K and D mesons in nuclear matter
Nucl.Phys. **A692** (2001) 104c-107c

M. Faessler and U. Fuchs:
Scalar isoscalar mesons in $\bar{p}p$ annihilation
Nucl.Phys. **A692** (2001) 372c - 375c

T. Faestermann, A. Arazi, J. Fernandez-Niello, W. Hillebrandt, K. Knie , G. Korschinek, G. Rugel, A. Wallner, and C. Wallner:
Radionuklide auf der Erde von ausserhalb des Sonnensystems
Verhandl. DPG (VI) 36 (2001) HK19.6

A. V. Fedenev, V. F. Tarasenko, A. Ulrich, and J. Wieser:
Wide-band Radiation Dynamics in Rare Gases at Pumping by Ion and Electron Beams,
Proc. in print: SPIE Vol. 4747

F. Gabbiani, P. F. Bedaque, and H. W. Grießhammer:
Higher Partial Waves in an Effective Field Theory Approach to nd **Scattering**
Nucl.Phys. **A675** (2000) 601

T. Gaitanos, H. H. Wolter, C. Fuchs, and A. Faessler:
Can we determine the nuclear equation of state from heavy ion collisions?
Proceedings: Structure of the Nucleus at the Dawn of the Century, Bologna 2000, ed. G.C. Bonsignori, M. Bruno, A. Ventura, D. Vretenar, World Scientific, 2001, Vol.1, p.273

T. Gaitanos, H. H. Wolter, and C. Fuchs:
Thermodynamical description of heavy ion collisions
Proceedings: Structure of the Nucleus at the Dawn of the Century, Bologna 2000, ed. G.C. Bonsignori, M. Bruno, A. Ventura, D. Vretenar, World Scientific, 2001, Vol.1, p.279

T. Gaitanos, C. Fuchs, H. H. Wolter, and A. Faessler:
Testing Dirac-Brueckner models via collective flow of heavy-ion collisions
EPJ; in Druck; nucl-th/0102010

D. Gassmann, P. G. Thirolf, E. Mergel, D. Habs, M. J. Chromik, J. Domscheit, A. Görgen, K. Hauschild, H. Hübel, M. Hunyadi, A. Krasznahorkay, A. Lopez-Martens, S. Neumann, A. Neusser, D. Pansegrau, P. Reiter, H. Scheit, G. Schönwasser, and D. Schwalm:
Conversion Electron Spectroscopy in the Superdeformed Minimum of ^{240}**Pu**
Phys.Lett. **B497** (2001) 181

G.C. Gellas, T.R. Hemmert, and U.-G. Meißner:
Reply to Comment by Birse et al.
Phys.Rev.Lett. **86** (2001) 3205

H. Gilg, H. Geissel, A. Gillitzer, R.S. Hayano, S. Hirenzaki, K. Itahashi, M. Iwasaki, P. Kienle, M. Münch, and G. Münzenberg:
Deeply bound 1s and 2p pionic states in ^{205}**Pb and effective pion mass in nuclear matter**

H. Gilg, H. Geissel, A. Gillitzer, R.S. Hayano, S. Hirenzaki, K. Itahashi, M. Iwasaki, P. Kienle , M. Münch, G. Münzenberg, W. Schott, K. Suzuki, T. Tomono, H. Weick, T. Yamazaki, and T. Yoneyama:
Tief-gebundene pionische 1s und 2p Zustände und die Pion-Kern-Wechselwirkung
Verhandl. DPG (VI) 36 (2001) HK4.3

C. Goeden and G. Dollinger:
Energy distribution of thermally emitted negative particles from type ia diamond (100)
Diam.Rel.Mat. **10** (2001) 496

V. Granata, S. Paul, for the RD39 Collaboration:
Cryogenic technology for tracking detectors
Nucl.Instr.Meth. **A461** (2001) 197-199

H. W. Grießhammer:
Effective Field Theory with Two and Three Nucleons
Nucl.Phys. **A689** (2001) 147c

M. Groß, D. Habs, L. Beck, O. Engels, O. Kester, H.-J. Maier , P. Reiter, P. G. Thirolf, and T. Faestermann:
Status des Münchner Spaltfragmentbeschleunigers MAFF
Verhandl. DPG (VI) 36 (2001) HK28.3

D. Habs, F. Ames, W. Assmann, S. Emhofer, O. Engels, M. Groß, O. Kester, H.-J. Maier, P. Reiter, T. Sieber, and P. G. Thirolf:
The REX-ISOLDE Project and the Munich Accelerator for Fission Fragments MAFF
Prog.Part.Nucl.Phys. **46** (2001) 343

F. J. Hartmann, R. Schmidt, B. Ketzer, T. v. Egidy, S. Wycech, R. Smolanczuk, T. Czosnyka, J. Jastrzebski, M. Kisielinski, P. Lubinski, P. Napiorkowski, L. Pienkowski, A. Trzcinska, B. Klos, K. Gulda, W. Kurczewicz, and E. Widmann:
Nucleon density in the nuclear periphery determined with antiprotonic x-rays: Calcium isotopes
Phys.Rev. **C65** (2001) 1-7014306

T.R. Hemmert:
Chiral Effective Field Theories with Explicit Spin 3/2 Degrees of Freedom: A Status Report
"NSTAR2001, Proceedings of the Workshop on the Physics of Excited Nucleons", Eds. D. Drechsel and L. Tiator, World Scientific (Singapore) 2001

T.R. Hemmert:
Theory of the Nucleon Spin Polarizabilities. 2
"GDH2000", Proceedings of the Symposium on the Gerasimov-Drell-Hearn Sum Rule and the Nucleon Spin Structure in the Resonance Region", Eds. D. Drechsel and L. Tiator, World Scientific (Singapore) 2001

E. M. Henley, T. Renk, and W. Weise:
Coordinate space distributions of antiquark flavor asymmetries in the proton
Phys.Lett. **B502** (2001) 99

H. Hofmann, F.A. Ivanyuk, C. Rummel, and S. Yamaji:
Nuclear Fission: The "Onset of dissipation" from a microscopic point of view
Phys.Ref. **C64** (2001) 054316

M. Hunyadi, D. Gassmann, A. Krasznahorkay, D. Habs, P. G. Thirolf, M. Csatlos, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyas, R. Hertenberger, H.-J. Maier, Z. Mate, and A. Metz:
Excited Superdeformed $K^{\pi} = 0^{+}$ Rotational Bands in β-Vibrational Fission Resonances of ^{240}Pu
Phys.Lett. **B505** (2001) 27

M. Hunyadi, D. Gassmann, A. Krasznahorkay, D. Habs, M. Csatlos, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyas, R. Hertenberger, H.-J. Maier, Z. Mate, A. Metz, P. G. Thirolf, M. J. Chromik, and S.Y.van der Werf:
Superdeformed Rotational Bands in ^{240}Pu
Acta Phys.Polon. **B32** (2001) 699

R. A. Ionescu, H. H. Wolter, and R. Fauser:
Equal-time hierarchies for transport descriptions of fermionic fields
submitted to Nucl.Phys.A; nucl-th/0009022

J. Jastrzebski, A. Trzcinska, P. Lubinski, F. J. Hartmann, R. Schmidt, T. v. Egidy, and B. Klos:
Antiprotons and nuclear periphery
Proc. 9^{th} Int. Conf. on Nuclear Reaction Mechanisms, ed. E. Gadioli, Università degli Studi di Milano, Ricerca Scientifica ed Educazione Permanente, Supplemento, N. 115, 2001, 349-358

N. Kaiser:
Chiral 3π-Exchange NN-Potentials: Results for Representation-Invariant Classes of Diagrams
Phys.Rev. **C61** (2000) 014003

N. Kaiser:
Chiral 3π-Exchange NN-Potentials: Results for Diagrams Proportional to g_A^4 and g_A^6
Phys.Rev. **C62** (2000) 0024001

N. Kaiser:
Chiral 3π-Exchange NN-Potentials: Results for Dominant Next-to-leading Order Contributions
Phys.Rev. **C63** (2001) 044010

N. Kaiser and W. Weise:
Systematic Calculation of S-Wave Pion and Kaon Self-energies in Asymmetric Nuclear Matter
Phys.Lett. **B512** (2001) 283

N. Kaiser:
Isospin Breaking in Neutron β-decay and $SU(3)$ Violation in Semi-leptonic Hyperon Decays
Phys.Rev. **C64** (2001) 028201

N. Kaiser:
Chiral Corrections to Kaon-Nucleon Scattering Lengths
Phys.Rev. **C64** (2001) 045204

N. Kaiser:
Chiral 2π-Exchange NN-Potentials: Two-Loop Contributions
Phys.Rev. **C64** (2001) 057001

O. Kenn, K.-H. Speidel, R. Ernst, J. Gerber, N. Benczer-Koller, G. Kumbartzki, P. Maier-Komor, and F. Nowacki:
Striking harmony between the nuclear shell model and new experimental g factors and B(E2) values of even Ni isotopes
Phys.Rev. **C63** (2001) 021302(R)

O. Kenn, K.-H. Speidel, R. Ernst, J. Gerber, P. Maier-Komor, N. Benczer-Koller, G. Kumbartzki, and F. Nowacki:
Measurements of g factors and lifetimes of the 2_1^+ states in ^{58,60,62,64}Ni and their implication for shell model calculations
Phys.Rev. **C63** (2001) 064306

B. Ketzer, M.C. Altunbas, K. Dehmelt, J. Ehlers, J. Friedrich, B. Grube, S. Kappler, I. Konorov, S. Paul, A. Placci, L. Ropelewski, and F. Sauli:
Triple GEM tracking detectors for COMPASS
CERN-OPEN-2002-004, 6pp, Dec 2001
Submitted to IEEE Trans.Nucl.Sci.

B. Ketzer, S. Bachmann, M. Capeans, M. Deutel, J. Friedrich, S. Kappler, I. Konorov, S. Paul, A. Placci, K. Reisinger, L. Ropelewski, L. Shekhtman, and F. Sauli:
GEM detectors for COMPASS
IEEE Trans.Nucl.Sci. **48** (2001) 1065-1069

B. Ketzer, T. v. Egidy, F. J. Hartmann, C. Maierl, R. Pohl, J. Eades, E. Widmann, T. Yamazaki, M. Kumakura, N. Morita, R.S. Hayano, M. Hori, T. Ishikawa, H.A. Torii, I. Sugai, and D. Horváth:
Collisional quenching of metastable states of antiprotonic helium by hydrogen and deuterium molecules
Eur.Phys.J. **D13** (2001) 305-326

P. Kienle, T. Faestermann, J. Friese, H.-J. Körner, M. Münch, R. Schneider, A. Stolz, E. Wefers, H. Geissel, G. Münzenberg, C. Schlegel, K. Sümmerer, H.Weick, M. Hellström, and P. G. Thirolf:
Synthesis and Halflives of Heavy Nuclei Relevant for the rp-Proces
Prog.Part.Nucl.Phys. **46** (2001) 73

P. Kienle and T. Yamazaki:
Empirical Deduction of a Medium-Modified Chiral Order Parameter from 1s π^-- States in Heavy Nuclei.
Phys.Lett. **B514** (2001) 1

O. Kortner:
Quasianalytische Rekonstruktion gerader Spuren in ATLAS-Driftrohkammern
Verhandl. DPG (VI) 36 (2001) T507.6

A. Kozlov, J. Friedrich, and the A1 Collaboration: **The longitudinal and transverse response of the ^{4}He(e,e'p) reaction in the dip region**
Nucl.Phys. **A684** (2001) 460-463

A. Krasznahorkay, D. Habs, M. Hunyadi, D. Gassmann, M. Csatlós, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyás, R. Hertenberger, H.-J. Maier, Z. Máté, A. Metz, J. Ott, P. G. Thirolf, and S.Y. van der Werf:
Hyperdeformation and clusterization in the actinide region
Acta Phys.Hung., Heavy Ion Physics **13** (2001) 111

A. Krasznahorkay, D. Habs, M. Hunyadi, M. Csatlós, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyás, R. Hertenberger, H.-J. Maier, Z. Máté, A. Metz, J. Ott, P. G. Thirolf, and S.Y. van der Werf:
Superdeformation, Hyperdeformation and Clustering in the Actinide Region
Acta Phys.Polon. **B32** (2001) 657

A. Kraus:
Aufbau eines berührungslosen kapazitiven Alignierungssystems
Verhandl. DPG (VI) 36 (2001) T407.5

The LEP Collaborations:
A Combination of Preliminary Electroweak Measurements and Constraints on the Standard Model
CERN-EP-2001-098

The LEP Collaborations:
A Combination of Preliminary Electroweak Measurements and Constraints on the Standard Model
CERN-EP-2001-021

G. A. Lalazissis, D. Vretenar, and P. Ring:
Mapping the Proton Drip Line from Z=31 to Z=49.
Nucl.Phys. **A679** (2001) 481

G. A. Lalazissis, D. Vretenar, and P. Ring:
Relativistic Hartree-Bogoliubov Description of Sizes and Shapes of A$\sim$ 20 Isobars.
Phys.Rev. **C63** (2001) 034305

A. Leins:
Suche nach der Produktion von einzelnen top-Quarks bei LEP2
Verhandl. DPG (VI) 36 (2001) T605.6

H. Lenske, H. H. Wolter, and A. Weigel:
Statistical multistep reaction approach for pre-equilibrium processes
Nucl.Phys. **A690** (2001) 267c

B. Lott, F. Goldenbaum, A. Böhm, W. Bohne, T. v. Egidy, P. Figuera, J. Galin, D. Hilscher, U. Jahnke, J. Jastrzebski, M. Morjean, G. Pausch, A. Peghaire, L. Pienkowski, D. Polster, S. Proschitzki, B. Quednau, H. Rossner, S. Schmid, and W. Schmid:
Thermal excitation and decay of nuclei from antiproton-nucleus interactions at 1.22 GeV
Phys.Rev. **C63** (1-22) 2001034616

Zhong-yu Ma, Nguyen Van Giai, A. Wandelt, D. Vretenar, and P. Ring:
Isoscalar Compression Modes in Relativistic Random Phase Approximation.
Nucl.Phys. **A685** (2001) 173

Zhong-yu Ma, Nguyen Van Giai, A. Wandelt, D. Vretenar, and P. Ring:
A Consistent Approach in Relativistic Random Phase Approximation.
Nucl.Phys. **A687** (2001) 64c

L. Maier, T. Faestermann, P. Kienle, R. Schneider, A. Stolz, E. Wefers, and the ESR and FRS workgroups:
Messung der Lebensdauer von nacktem ^{207}Tl und ^{206}Tl
Verhandl. DPG (VI) 36 (2001) HK12.2

L. Mankiewicz and G. Piller:
Exclusive electroproduction of transversely polarized vector mesons
Phys.Rev. **D61** (2000) 074013

E. Marco and W. Weise:
QCD spectral sum rules and spontaneous chiral symmetry breaking
Phys.Lett. **B482** (2000) 87

E. Marco and W. Weise:
Photoproduction of quasibound ω mesons in nuclei
Phys.Lett. **B502** (2001) 59

G. Marx, D. Ackermann, J. Dilling, F.P. Heßberger, S. Hofmann, H.-J. Kluge, R. Mann, G. Münzenberg, W. Quint, D. Rodriguez, M. Schädel, J. Schönfelder, G. Sikler, C. Toader, C. Weber, Z. Qamhieh, O. Engels, D. Habs, P. G. Thirolf, H. Backe, A. Dretzke, W. Lauth, W. Ludolphs, and M. Sewtz:
and the SHIPTRAP Collaboration:
Status of the SHIPTRAP project: A capture and storage facility for heavy radionuclides from SHIP
Hyperfine Interactions **132** (2001) 459

E. Mergel, G. Schönwasser, H. Hübel, D. Rossbach, P. G.Thirolf, M. J. Chromik, D. Gassmann, D. Habs, and P. Reiter:
A Setup for the Search for E0 Decay of Superdeformed ^{236}U
Acta Phys.Hung. **NS13** (2001) 199

P. Mendez-Lorenzo:
Bestimmung der Masse des W-Bosons im rein leptonischen Kanal mit den Daten des OPAL-Detektors
Verhandl. DPG (VI) 36 (2001) T506.4

S. Merchel, T. Faestermann, U. Herpers, K. Knie, G. Korschinek, I. Leya, M. E. Lipschutz, and R. Michel:
Cosmogenic Nuclides in Iron Meteorites: Challenging Canyon Diablo
Meteoritics and Planeary Science **A132** (2001) 36

T. J. Mertzimekis, N. Benczer-Koller, J. Holden, G. Jakob, G. Kumbartzki, K.-H. Speidel, R. Ernst, A. Macchiavelli, M. McMahan, L. Phair, P. Maier-Komor, A. Pakou, S. Vincent, and W. Korten:
First measurements of g factors in the even Kr isotopes
Phys.Rev. **C64** (2001) 024314

N. Nesvadba:
Vier Jets, fünf Higgs und kein b
Verhandl. DPG (VI) 36 (2001) T206.8

P. Neumaier, G. Dollinger, A. Bergmaier, I. Genchev, L. Görgens, R. Fischer, C. Ronning , and H. Hofsäss:
High resolution elastic recoil detection utilising bayesian probabilility theory
Nucl.Instr.Meth. **B183** (2001) 48

E. Nolte, E. Beck, C. Winklhofer, and C. Steinhausen:
Compartmental model for aluminium biokinetics
Human & Experimental Toxicology202001111

The OPAL Collaboration:
Search for Leptoquarks in Electron-Photon Scattering at $\sqrt{s}$ up to 209 GeV at LEP
CERN-EP-2001-093
Phys.Lett. **B526** (2002) 233-246

The OPAL Collaboration:
Search for Doubly Charged Higgs Bosons with the OPAL Detector at LEP
CERN-EP-2001-082
Phys.Lett. **B256** (2002) 221-232

The OPAL Collaboration:
Search for Yukawa Production of a Light Neutral Higgs Boson at LEP
CERN-EP-2001-077

The OPAL Collaboration:
Particle Multiplicity of Unbiased Gluon Jets from e^+e^- Three-jet Events
CERN-EP-2001-076

The OPAL Collaboration:
Genuine Correlations of Like-Sign Particles in Hadronic Z0 Decays
Phys.Lett. **B523** (2001) 35-52

The OPAL Collaboration:
Search for Single Top Quark Production at LEP2
Phys.Lett. **B521** (2001) 181-194

The OPAL Collaboration:
Measurement of the Hadronic Cross-Section for the Scattering of Two Virtual Photons at LEP
CERN-EP-2001-064

The OPAL Collaboration:
Search forlepton flavour violation in e^+e^- collisions at $\sqrt{s}$ = 189–209 GeV
Phys.Lett. **B519** (2001) 23-32

The OPAL Collaboration:
Measurement of Z/γ^* production in Compton scattering of quasi-real photons
CERN-EP-2001-053

The OPAL Collaboration:
Measurement of the Branching Ratio for the Process $b \to \tau\nu X$
Phys.Lett. **B520** (2001) 1-10

The OPAL Collaboration:
Angular Analysis of the Muon Pair Asymmetry at LEP1
Phys.Lett. **B516** (2001) 1-20

The OPAL Collaboration:
Measurement of V_{ub} using b hadron semileptonic decay
Eur.Phys.J. **C21** (2001) 399-410

The OPAL Collaboration:
Determination of the b Quark Mass at the Z Mass Scale
CERN-EP-2001-034
Eur.Phys.J. **C21** (2001) 411-422

The OPAL Collaboration:
Measurement of the Branching Ratio for $D_s \to \tau\nu_\tau$ Decays
Phys.Lett. **B516** (2001) 236-248

The OPAL Collaboration:
Precision Neutral Current Asymmetry Parameter Measurements from the Tau Polarization at LEP
Eur.Phys.J. **C21** (2001) 1-21

The OPAL Collaboration:
A Search for a Narrow Radial Excitation of the $D^{*\pm}$ Meson
Eur.Phys.J. **C20** (2001) 445-454

The OPAL Collaboration:
A Simultaneous Measurement of the QCD Colour Factors and the Strong Coupling
Eur.Phys.J. **C20** (2001) 601-615

M.G. Pellegriti, M. Aliotta, P. Figuera, M. Lattuada, D. Miljanic, A. Musumarra, R.G. Pizzone, C. Rolfs, S. Romano, C. Spitaleri, S. Tudisco, A. Tumino, S. Typel, and H. H. Wolter:
The $\alpha -^{12} C$ radiative capture process and the Trojan Horse Method
Nucl.Phys. **A688** (2001) 543

G. Piller, M. Vänttinen, L. Mankiewicz, W. Weise, and K. Eskola:
Nuclear Parton Distributions in Coordinate Space
Nucl.Phys. **A663** (2000) 328

G. Piller and W. Weise:
Nuclear deep inelastic scattering and coherence phenomena
Phys.Reports **330** (2000) 1

G. Piller and W. Weise:
Nuclear Deep-Inelastic Scattering
Nucl.Phys. **A680** (2001) 108

G. Piller, M. Vänttinen, L. Mankiewicz, and W. Weise:
Nuclear shadowing and the optics of hadronic fluctuations
Nucl.Phys. **A688** (2001) 905

T. Pospischil, J. Friedrich, and the A1 Collaboration:
Measurement of $\mathrm{G_{Ep}/G_{Mp}}$ via polarization transfer at $\mathrm{Q}^2 = 0.4\,(GeV/c)^2$
Eur.Phys. **A12** (2001) 125-127

T. Pospischil, J. Friedrich, and the A1 Collaboration:
Measurement of the recoil polarization in the $p(\vec{e}, e'\vec{p})\pi^0$ reaction at the Δ(1232) resonance
Phys.Rev.Lett. **86** (2001) 2959

E. Ramström, H. Lenske, and H. H. Wolter:
Multistep description of nucleon production spectra in nucleon-induced reactions at intermediate energy
Proceedings: Structure of the Nucleus at the Dawn of the Century, Bologna 2000, ed. G.C. Bonsignori, M. Bruno, A. Ventura, D. Vretenar, World Scientific, 2001, Vol.3, p.431

F. Rauscher:
Test von Driftrohrkammern mit kosmischen Myonen - Ergebnisse mit einem vorl"aufigen Aufbau
Verhandl. DPG (VI) 36 (2001) T307.6

T. Renk:
Note on the impact parameter analysis of high energy proton proton collisions
Eur.Phys.J. **A11** (2001) 251

T. Renk, G. Piller, and W. Weise:
Coherence effects in diffractive electroproduction of ρ mesons from nuclei
Nucl.Phys. **A689** (2001) 869

P. Ring, Zhong-yu Ma, Nguyen Van Giai, D. Vretenar, A. Wandelt, and Li-gang Cao:
The time-dependent relativistic mean field theory and the random phase approximation.
Nucl.Phys. **A694** (2001) 249

P. Ring:
The microscopic treatment of the nuclear system.
Lecture Notes in Physics **581** (2001) 195

P. Ring and A. V. Afanasjev:
Effective field theory for rotational bands in deformed and superdeformed nuclei.
Acta Phys.Polon. **B32** (2001) 2469

P. Ring:
Relativistic Theory of Nuclear Structure far from the Valley of β-Stability.
Nato Science Series II **17** (2001) 115

D. Rossbach, A. Görgen, H. Hübel, E. Mergel, G. Schönwasser, F. Azaiez, A. Astier, D. Bazzacco, M. Bergstrøm, C. Bourgeois, N. Buforn, K. Hauschild, A. Korichi, W. Korten, T. Kröll, A. Lopez-Martens, R. Lucas, H.-J. Maier, N. Redon, P. Reiter, C. Rossi-Alvarez, O. Stezowski, P. G. Thirolf, and A.N. Wilson:
Linear polarisation of inter-band transitions in superdeformed ^{196}Pb
Phys.Lett. **B513** (2001) 9

C. Rummel and H. Hofmann:
Self-consistent quantal treatment of decay rates within the perturbed static path approximation
Phys.Ref. **E64** (2001) 066126

T. Sattler, Th. Tschentscher, J. R. Schneider, M. Vos, A.S. Keitfets, D.R. Lun, E. Weigold , G. Dollinger, H. Bross, and F. Bell:
The anisotropy of the electron momentum density of graphite studied by $(\gamma, E\gamma)$ and (E,2E) spectroscopy
Phys.Rev. **B63** (2001) 1

T. Schätz, U. Schramm, and D. Habs:
Crystalline Ion Beams
Nature **412** (2001) 717

O. Schmelmer, G. Dollinger, G. Datzmann, A. Hauptner, H.-J. Körner, P. Maier-Komor, and P. Reichart:
Particle-induced x-ray emission using high energy ions with respect to microprobe application,
Nucl.Instr.Meth. **B179** (2001) 469-479

R. A. Schneider and W. Weise:
Thermal Dileptons from Quark and Hadron Phases of an Expanding Fireball
Eur.Phys.J. **A9** (2000) 357

R. A. Schneider and W. Weise:
Thermal Dileptons from Quark and Hadron Phases of an Expanding Fireball
Eur.Phys.J. **A9** (2000) 357

R. A. Schneider and W. Weise:
The Omega Meson at High Temperature
Phys.Lett. **B515** (2001) 89

R. A. Schneider and W. Weise:
Quasiparticle Description of Lattice QCD Thermodynamics
Phys.Rev. **C64** (2001) 055201

U. Schramm, T. Schätz, and D. Habs:
Bunched Crystalline Ion Beams
Phys.Rev.Lett. **87** (2001) 184801

U. Schramm, T. Schätz, and D. Habs:
Laser-cooling of Ions and Ion Acceleration in the RF-Quadrupole Ring Trap PALLAS
AIP Conf.Proc. **576** (2001) 667

G. Seewald, E. Hagn, and E. Zech:
Electric field gradient of Pt, Ir, Os and Re in cubic cobalt
Phys.Rev. **B63** (2001) 054428

J. A. Sheikh, E. Lopes, and P. Ring:
On the Solution of the Number-Projected Hartree-Fock-Bogoliubov Equations.
Phys.At.Nuclei **64** (2001) 477, translated from Yadernaya Fisika **64**(3) (2001) 1

A. Stadler, I. Genchev, A. Bergmaier, G. Dollinger, V. Petrova-Koch, W. Hansch, H. Baumgärtner , and I. Eisele:
Nitrogen implantations for rapid thermal oxinitride layers
Microelectronics Reliability **41** (2001) 977-980

C. Stan-Sion, R. Behrisch, P. Coad, U. Kreißig, F. Kubo, V. Lazarev, S. Lindig, M. Mayer, E. Nolte, A. Peacock, L. Rohrer, and J. Roth:
Hydrogene Isotope Depth Profiling in Carbon samples from the erosion dominated inner vessel walls of JET
Journal of Nuclear Materials290-2932001491

R. Ströhmer:
W Mass Measurements using Semileptonic and Fully Leptonic Events at LEPII
Proceedings of the 30th International Conference on High-Energy Physics (ICHEP 2000), Osaka, World Scientific, 2001

K. Strobel and M. K. Weigel:
On the minimum and maximum mass of neutron stars and the delayed collapse
A & A **367** (2001) 582

P. G. Thirolf, D. Gassmann, D. Habs, M. J. Chromik, Y. Eisermann, G. Graw, R. Hertenberger, H.-J. Maier, A. Metz, P. Reiter, T. Faestermann, A. Krasznahorkay, M. Hunyadi, M. Csatlós, J. Gulyás, Z. Máté, D. Pansegrau, H. Scheit, D. Schwalm, E. Mergel, H. Hübel, and A. Görgen:
Detailed Spectroscopy in the Superdeformed Second Minimum of ^{240}Pu
Acta Phys.Hung., Heavy Ion Physics **13** (2001) 93

T. Trefzger:
Search for Higgs Bosons at LEP2 and Hadron Colliders
Fortsch.Phys. **49** (2001) 1147

T. Trefzger:
Search for Higgs Bosons at LHC
Proceedings of the Snowmass Conference, Snowmass, 2001

A. Trzcinska, J. Jastrzebski, P. Lubinski, F. J. Hartmann, R. Schmidt, T. v. Egidy, and B. Klos:
Neutron density distributions deduced from antiprotonic atoms
Phys.Rev.Lett. **87**(1-4) (2001) 082501

A. Trzcinska, J. Jastrzebski, P. Lubinski, F. J. Hartmann, R. Schmidt, T. v. Egidy, and B. Klos:
Information on the nuclear periphery from antiprotonic atoms
Acta Phys.Polon. **B32** (2001) 917-923

A. Trzcinska, J. Jastrzebski, T. Czosnyka, T. v. Egidy, K. Gulda, F. J. Hartmann, J. Iwanicki, B. Ketzer, M. Kisielinski, B. Klos, W. Kurczewicz, P. Lubinski, P. Napiorkowski, L. Pienkowski, R. Schmidt, and E. Widmann:
Information on antiprotonic atoms and the nuclear periphery from the PS209 experiment
Nucl.Phys. **A692** (2001) 176c-181c

S. Typel, O. Riedl, and H. H. Wolter:
Elastic Proton-Nucleus Scattering and Optical Potentials in a Relativistic Mean Field Model
submitted to Nucl. Phys. **A**

I. Uman:
Resonances with hidden strangeness in $\bar{p}p \rightarrow K^+K^-\pi^0$
Nucl.Phys. **A692** (2001) 302c-307c

C.F. Vollmer:
Optimierung der Faltungsmethode zur Bestimmung der W-Boson-Masse
Verhandl. DPG (VI) 36 (2001) T506.1

D. Vretenar, N. Paar, P. Ring, and G. A. Lalazissis:
Collectivity of Low-Lying Dipole Strength in Relativistic Random Phase Approximation.
Nucl.Phys. **A692** (2001) 496

D. Vretenar, N. Paar, P. Ring, and G. A. Lalazissis:
Pygmy Dipole Resonances in Relativistic Random Phase Approximation.
Phys.Rev. **C63** (2001) 047301 (BR)

S. Wagner, K.-H. Speidel, O. Kenn, R. Ernst, S. Schielke, J. Gerber, P. Maier-Komor, N. Benczer-Koller, G. Kumbartzki, Y. Y. Sharon, and F. Nowacki:
New measurement of the g factor of the ^{54}Cr(2^+) state and its shell model interpretation
Phys.Rev. **C64** (2001) 034320

S. Wallis-Plachner:
High statistics study of $\bar{p}n \rightarrow K\bar{K}\pi$
Nucl.Phys. **A692** (2001) 326c - 330c

E. Wefers, T. Faestermann, M. Münch, R. Schneider, K. Sümmerer, A. Stolz, J. Friese, H. Geissel, M. Hellström, P. Kienle, H.-J. Körner, G. Münzenberg, C. Schlegel, P. G. Thirolf, and H. Weick:
Untersuchung von p-Dripline-Kernen unterhalb von ^{100}Sn
Verhandl. DPG (VI) 36 (2001) HK5.3

W. Weise:
QCD aspects of hadron physics
Nucl.Phys. **A670** (2000) 3

W. Weise:
Pionic excitations and chiral symmetry in dense matter
Acta Phys.Polon. **B31** (2000) 2715

W. Weise:
Hadronic excitations and chiral symmetry in nuclear systems
Nucl.Phys. **A690** (2001) 98

J. Wieser, A. Ulrich, D. E. Murnick, and M. Salvermoser:
Quasi-monochromatische 121.56nm Lyman-α Lichtquelle
Ed. G. Babucke, Inst. Für Niedertemperatur-Plasmaphysik, Greifswald, p.101

R. Gernhäuser for the HADES collaboration:
First results from the e^+epair spectrometer HADES
Verhandl. DPG (VI) 36 (2001) HK6.6