

Bryan Hobson Wildenthal

Educational History

Ph. D., Major in Physics, University of Kansas, Lawrence, Kansas, 1964
Thesis title: The Mechanism of the Si(d,p) Reaction Below 3 MeV
Advisors: R. W. Krone and F. W. Prosser

B. A., Mathematics/English, Sul Ross State College, Alpine, Texas, 1958

High School Diploma, Alpine, Texas, Public Schools, 1955

Principal Employment History

President *ad interim*, The University of Texas at Dallas, July 1, 2015 -

Executive Vice President and Provost, The University of Texas at Dallas, 1999-

Vice President for Academic Affairs, The University of Texas at Dallas, 1994-99

Vice President for Academic Affairs, The University of Texas at Dallas, 1992-94

Dean, College of Arts and Sciences, and Professor, Department of Physics and Astronomy,
The University of New Mexico, Albuquerque, New Mexico, 1987-1992

Professor and Head, Department of Physics and Atmospheric Science,
Drexel University, Philadelphia, Pennsylvania, 1983-1987

Professor of Physics,
Michigan State University, East Lansing, Michigan, 1972-1983

Associate Professor of Physics,
Michigan State University, East Lansing, Michigan, 1969-1972

Assistant Professor of Physics,
Texas A and M University, College Station, Texas, 1968-1969

AEC Postdoctoral Fellow,
Oak Ridge National Laboratory, Oak Ridge, Tennessee, 1966-1968

Research Associate and Lecturer in Physics,
Rice University, Houston, Texas, 1964-1966

Teaching Assistant and Research Assistant
University of Kansas, Lawrence, Kansas, 1958-63

Secondary and Visiting Appointment History

Consultant,
Los Alamos National Laboratory, Los Alamos, New Mexico, 1987-1993

Guest Professor of Physics,
University of Sao Paulo, Sao Paulo, Brazil, March, 1985

Adjunct Professor of Physics,
University of Pennsylvania, Philadelphia, Pennsylvania, 1984-1988

Guest Lecturer in Physics,
University of Manchester, Manchester, England, June-August, 1980

Consultant,
Los Alamos National Laboratory, Los Alamos, New Mexico, June-August, 1979

Senior Visiting Fellow,
University of Oxford, Oxford, England, April-May, 1979

Executive Secretary, DOE/NSF Nuclear Science Advisory Committee,
National Science Foundation, Washington, D. C., 1978

Visiting Professor of Nuclear Physics,
University of Paris, Orsay, France, 1977

Visiting Scientist,
Institute for Heavy-ion Research, Darmstadt, West Germany, 1977

Visiting Scientist,
Max-Planck-Institute for Nuclear Physics, Heidelberg, West Germany, March, 1976

Visiting Scientist,
Brookhaven National Laboratory, Upton, New York, October, 1974

Senior U.S. Fellow of the Alexander von Humboldt Foundation,
University of Munich, Munich, West Germany, 1973

Honors, Awards, Activities

LAMPF Program Advisory Committee,
Los Alamos National Laboratory, Los Alamos, New Mexico, 1989-1992

Editorial Advisor,
Modern Physics Letters A and International Journal of Modern Physics A, 1987-1990

T. W. Bonner Prize Award Committee,
Division of Nuclear Physics, American Physical Society, 1981

Junior Research Award,
Michigan State University Chapter of Sigma Xi, 1978

Fellow,
John Simon Guggenheim Memorial Foundation, 1977

Vice Chairman/Chairman,
Gordon Research Conference, Nuclear Structure Physics, 1976/1977

T. W. Bonner Prize Award Committee,
Division of Nuclear Physics, American Physical Society, 1975

Program Committee,
Division of Nuclear Physics, American Physical Society, 1974-1975

Elected Fellow,
American Physical Society, 1973

Senior U.S. Fellowship,
Alexander von Humboldt Foundation of West Germany, 1973

AEC Postdoctoral Fellowship,
Oak Ridge National Laboratory, Oak Ridge, Tennessee, 1966

Phi Beta Kappa, 1962

Extramural Funding

Shell-Model Calculations and Experimental Frontiers in Nuclear Spectroscopy

B. H. Wildenthal

National Science Foundation, Physics Division

PHY-91-23332, February 1, 1992 - January 31, 1993; \$28,000

PHY-91-23332, February 1, 1993 - January 31, 1994; \$28,800

PHY-91-23332, February 1, 1994 - January 31, 1995; \$29,700

Nuclear Physics in the 1990's; International Conference in Santa Fe, New Mexico, May 1-5, 1990

B. H. Wildenthal

National Science Foundation, Physics Division (Group Travel Award)

PHY-89-22287, March 15 - August 31, 1990- \$4,983

Realistic Shell-Model Calculations and Medium-Energy Experiments

B. H. Wildenthal

National Science Foundation, Physics Division

PHY-87-18772, October 1, 1989 - August 31, 1990; \$44,000

PHY-87-18772, October 1, 1988 - August 31, 1989; \$44,000

PHY-87-18772, October 1, 1987 - August 31, 1988; \$52,041

U.S. - Brazil Cooperative Research on Collective and Statistical Properties of Large-Basis

Shell-Model Wave Functions

B. H. Wildenthal

National Science Foundation, International Programs

INT-86-02642, July 15, 1986 - June 30, 1988; \$4,200

Shell-Model Calculations and Medium-Energy Experiments

B. H. Wildenthal

National Science Foundation, Physics Division

PHY-85-09736, October 15, 1986 - October 14, 1987; \$51,000

PHY-85-09736, October 15, 1985 - October 14, 1986; \$51,000

Research supported under the block-grant funding of the MSU Cyclotron Laboratory (later, MSU National Superconducting Cyclotron Laboratory) by the National Science Foundation, 1969-1983

B. H. (Bryan Hobson) Wildenthal
Publications 1961 - 1998

Gamma radiation from proton capture in ^{23}Na
F. W. Prosser, Jr., W. P. Unruh, B. H. Wildenthal and R. W. Krone
Physical Review 125 (1962) 594-599; **9-11-1961**

$^{10}\text{B}(d,\alpha)^8\text{Be}$ reaction and the 2.94 MeV state in ^8Be
K. H. Purser and B. H. Wildenthal
Nuclear Physics 44 (1963) 22-33; **1-31-1963**

Mechanism of the $\text{Si}(d,p)$ reactions below 3 MeV
B. H. Wildenthal, R. W. Krone, and F. W. Prosser, Jr.,
Physical Review 135 (1964) B680-B693; **4-30-1964**

$^3\text{He}(^3\text{He},2p)^4\text{He}$ reaction
J. P. Aldridge, III, B. H. Wildenthal, and D. H. Youngblood
Reviews of Modern Physics 37 (1965) 430-429; ????

Comparison of the effective two-nucleon interaction in $2s_{1/2}$ - $1d_{3/2}$ shell nuclei
with a surface delta interaction
P. W. M. Glaudemans, B. H. Wildenthal, and J. B. McGrory
Physics Letters 21 (1966) 427-429; **4-14-1966**

The $^{28}\text{Si}(^3\text{He},^4\text{He})^{27}\text{Si}$ reaction
B. H. Wildenthal and P. W. M. Glaudemans
Nuclear Physics A92 (1967) 353-364; **8-23-1966**

Two-body matrix elements from a modified surface delta interaction
P. W. M. Glaudemans, P. J. Brussaard, and B. H. Wildenthal
Nuclear Physics A102 (1967) 593-601; **5-25-1967**

Proton single-particle states above $Z = 82$, as observed with the reaction
 $^{208}\text{Pb}(^3\text{He},d)^{209}\text{Bi}$ at $E(^3\text{He}) = 51\text{MeV}$
B. H. Wildenthal, B. M. Preedom, E. Newman, and M. R. Cates
Physical Review Letters 19 (1967) 960-963; **9-11-1967**

Spectroscopic factors from the reaction $^{30}\text{Si}(d,p)^{31}\text{Si}$
B. H. Wildenthal and P. W. M. Glaudemans
Nuclear Physics A108 (1968) 49-62; **9-25-1967**

$^{28}\text{Si}(d,^3\text{He})^{27}\text{Al}$ reaction and the structure of ^{28}Si and ^{27}Al
B. H. Wildenthal and E. Newman
Physical Review 167 (1968) 1027-1034; **10-2-1967**

Study of ^{41}Sc levels by the $^{40}\text{Ca}(p,\gamma)^{41}\text{Sc}$ reaction
D. H. Youngblood, B. H. Wildenthal, and C. M. Class
Physical Review 169 (1968) 859-877; **11-17-1967**

Shell-model calculations of $B(E2)$ values in s-d shell nuclei with $A = 19-22$
E. C. Halbert, J. B. McGrory, and B. H. Wildenthal
Physical Review Letters 20 (1968) 1112-1114; **3-11-1968**

Shell-model calculation for $A = 20-28$ nuclei
B. H. Wildenthal, J. B. McGrory, E. C. Halbert and P. W. M. Glaudemans

Physics Letters 26B (1968) 692-694; **4-1-1968**

Shell-model calculation for nuclei of masses 30 through 33

B. H. Wildenthal, J. B. McGrory, E. C. Halbert and P. W. M. Glaudemans
Physics Letters 27B (1968) 611-613; **7-1-1968**

$^{39}\text{K}(d, ^3\text{He})^{38}\text{Ar}$ and the sd-shell structure of ^{38}Ar

B. H. Wildenthal and E. Newman
Nuclear Physics A118 (1969) 347-360; **7-1-1968**

Study of levels in ^{22}Ne , ^{26}Mg , and ^{34}S by proton pickup

B. H. Wildenthal and E. Newman
Physical Review 175 (1968) 1431-1441; **7-25-1968**

Levels in ^{137}Cs , ^{139}La , ^{143}Pm and ^{145}Eu observed with proton-transfer reactions

B. H. Wildenthal, E. Newman and R. L. Auble
Physics Letters 27B (1968) 628-630; **8-22-1968**

Nature of 0^+ levels in Calcium isotopes

J. B. McGrory and B. H. Wildenthal
Physics Letters 28B (1968) 237-239; **10-12-1968**

Study of a possible 3^+ level in ^{30}Si

B. H. Wildenthal and E. Newman
Physics Letters 28B (1968) 108-110; **10-15-68**

Shell model for $N = 82$ nuclei

B. H. Wildenthal
Physical Review Letters 22 (1969) 1118-1120; **3-17-1969**

Structure of levels of ^{141}Pr

B. H. Wildenthal
Physics Letters 29B (1969) 274-276; **4-3-1969**

Level structure in ^{145}Eu

E. Newman, K. S. Toth, R. L. Auble, R. M. Gaedke, M. F. Roche, and B. H. Wildenthal
Physical Review C1 (1970) 186-212; **10-31-1969**

Shell-model structure of $^{42-50}\text{Ca}$

J. B. McGrory, B. H. Wildenthal and E. C. Halbert
Physical Review C2 (1970) 186-212; **1-12-1970**

Shell-model structure of ^{35}Cl - ^{35}Ar

B. H. Wildenthal, E. C. Halbert, J. B. McGrory and T. T. S. Kuo
Physics Letters 32B (1970) 339-342; **5-15-1970**

Study of the level structure of $N = 82$ nuclei via proton-transfer reactions

B. H. Wildenthal, E. Newman and R. L. Auble
Physical Review C3 (1971) 1199-1220; **6-19-1970**

Ultra-high resolution spectrometer system for charged particle studies of nuclei

H. G. Blosser, G. M. Crawley, R. DeForest, E. Kashy and B. H. Wildenthal
Nuclear Instruments and Methods 91 (1971) 61-65; **8-14-1970**

Static quadrupole moments in $A = 18-38$ nuclei as predicted in the shell model

B. H. Wildenthal, J. B. McGrory and P. W. M. Glaudemans

Physical Review Letters 26 (1971) 96-99; **11-5-1970**

A truncated shell-model calculation of ^{23}Na , ^{24}Mg and ^{28}Si

J. B. McGrory and B. H. Wildenthal

Physics Letters 34B (1971) 373-376; **12-28-1970**

An s-d shell-model study for $A = 18-22$

E. C. Halbert, J. B. McGrory, B. H. Wildenthal and S. P. Pandya

Advances in Nuclear Physics, Vol. IV ed. by M. Baranger and E. Vogt, Plenum Press, New York (1971) 315-442

Calculations with a ls-0d shell model for $A = 34-38$ nuclei

B. H. Wildenthal, E. C. Halbert, J. B. McGrory and T. T. S. Kuo

Physical Review C4 (1971) 1266-1314; **4-26-1971**

Structure of nuclei with masses $A = 30-35$, as calculated in the shell model

B. H. Wildenthal, J. B. McGrory, E. C. Halbert and H. D. Graber

Physical Review C4 (1971) 1708-1758; **5-19-1971**

The structure of the lighter $N = 82$ nuclei

B. H. Wildenthal and Duane Larson

Physics Letters 37B (1971) 266-268; **10-5-1971**

Electromagnetic transition rates in ^{28}Al

J. V. Maher, G. B. Beard, G. H. Wedberg, E. Sprenksel-Segel, A. Yousef, B. H. Wildenthal and R. E. Segel

Physical Review C5 (1972) 365-378; **11-15-1971**

$^{19}\text{F}(d,p)^{20}\text{F}$ and the nuclear structure of ^{20}F

H. T. Fortune, G. C. Morrison, R. C. Bearse, J. L. Yntema and B. H. Wildenthal

Physical Review C6 (1972) 21-29; **12-6-1971**

Shell-model calculations for ^{22}Na and ^{22}Ne

B. M. Preedom and B. H. Wildenthal

Physical Review C6 (1972) 1633-1644

Calculations of $T=2$ to $T=1$ to $T=0$ M1 decays in $A = 20$ and $A = 32$ nuclei

S. Maripuu and B. H. Wildenthal

Physics Letters 38B (1972) 464-466; **2-2-1972**

Inelastic electron scattering form factors calculated from shell-model wave functions

G. R. Hammerstein, Duane Larson and B. H. Wildenthal

Physics Letters 39B (1972) 176-178; **2-10-1972**

Shell-model calculations for masses 27, 28 and 29: electromagnetic transition rates and multipole moments

M. J. A. de Voigt, P. W. M. Glaudemans, J. de Boer and B. H. Wildenthal

Nuclear Physics A186 (1972) 365-378; **2-17-1972**

Study of the $^{27}\text{Al}(^3\text{He},p)^{29}\text{Si}$ reaction

H. Nann, T. Mozgovoy, R. Bass and B. H. Wildenthal

Nuclear Physics A192 (1972) 417-425; **5-1-1972**

Investigation of the $^{32}\text{S}(^3\text{He},p)^{34}\text{Cl}$ reaction

H. Nann, L. Armbruster and B. H. Wildenthal

Nuclear Physics A198 (1972) 11-20; **6-10-1972**

Some comments on the cross section of ^{37}Cl for solar neutrino absorption

W. A. Lanford and B. H. Wildenthal

Physical Review Letters 29 (1972) 606-608; **6-16-1972**

Inelastic proton scattering from ^{138}Ba and ^{144}Sm at 30 MeV

D. Larson, S. M. Austin and B. H. Wildenthal

Physics Letters 41B (1972) 145-147; **7-17-1972**

Calculations of allowed beta decay in the (0d-1s) shell

W. A. Lanford and B. H. Wildenthal

Physical Review C 7 (1973) 668-676; **7-24-1972**

Shell-model calculation for masses 27, 28 and 29: general methods and specific applications to ^{27}Al , ^{28}Si and ^{29}Si

B. H. Wildenthal and J. B. McGrory

Physical Review C 7 (1973) 714-732; **7-26-1972**

Spins of states in ^{19}O near 2.7 MeV excitation

D. J. Crozier, H. T. Fortune, R. Middleton, J. L. Wiza and B. H. Wildenthal

Physics Letters 41B (1972) 291-294; **8-4-1972**

Energy levels in ^{142}Nd

S. Raman, J. L. Foster, Jr., O. Dietzsch, D. Spalding, L. Bimbot and B. H. Wildenthal

Nuclear Physics A 201 (1973) 21-40; **9-17-1972**

Microscopic (p,p') calculations and polarization charges with large-basis shell-model wave functions

Duane Larson, S. M. Austin and B. H. Wildenthal

Physics Letters 42B (1972) 153-156; **9-25-1972**

Shell-model calculations for A=18, 19 and 20 nuclei with core excitation included explicitly

J. B. McGrory and B. H. Wildenthal

Physical Review C 7 (1973) 974-993; **10-25-1972**

An anomalous M1 transition in ^{38}Cl

S. Maripuu, B. H. Wildenthal and A. O. Evaraye

Physics Letters 43B (1973) 368-370; 1-24-1973; **1-24-1973**

Shell-model calculations for masses 27, 28 and 29: specific applications to ^{27}Mg , ^{28}Mg , ^{28}Al and ^{29}Al

M. J. A. de Voigt and B. H. Wildenthal

Nuclear Physics A 206 (1973) 305-320; **1-25-1973**

Shell-model study of ^{24}Ne

R. G. H. Robertson and B. H. Wildenthal

Physical Review C 8 (1973) 241-246; 3-2-1973; **3-12-1973**

A shell-model calculation for masses 15, 16 and 17

B. S. Reehal and B. H. Wildenthal

Particles and Nuclei 6 (1973) 137-179; **3-6-1973**

Isospin mixing from the effective nucleon interaction

G.F. Bertsch and B. H. Wildenthal

Physical Review C 8 (1973) 1023-1028; **6-6-1973**

Inelastic proton scattering from ^{138}Ba and ^{144}Sm at 30 MeV

Duane Larson, Sam M. Austin and B. H. Wildenthal

Physical Review C 9 (1974) 1574-1588; **6-9-1973**

Mass of ^{31}S

A. Moalem and B. H. Wildenthal
Physical Review C 8 (1973) 1961-1962; **7-23-1973**

Prediction of weak-coupling structure from a shell-model basis
B. H. Wildenthal, H. Nann and K. K. Seth
Physical Review Letters 32 (1974) 794-797; **1-24-1974**

(p,t) reactions on odd-A nuclei and the weak-coupling core-excitation model
K. K. Seth, A. Saha, W. Stewart, W. Benenson, W. A. Lanford, H. Nann and B. H. Wildenthal
Physics Letters 49B (1974) 794-797; **2-22-1974**

Discovery of the missing two-particle, two-hole 0^+ states in ^{40}Ca
K. K. Seth, A. Saha, W. Benenson, W. A. Lanford, H. Nann and B. H. Wildenthal
Physical Review Letters 33 (1974) 233-236; **3-25-1974**

(p, ^3He) and (p,t) reactions on ^{29}Si
H. Nann, W. Benenson, W. A. Lanford and B. H. Wildenthal
Physical Review C 10 (1974) 1001-1012; **6-3-1974**

Decays of the $f_{7/2}$ isomers $^{53}\text{Fe}(g)$ and $^{53}\text{Fe}(m)$
J. A. Black, Wm. C. McHarris, W. H. Kelly and B. H. Wildenthal
Physical Review C 11 (1975) 939-951; **7-22-1974**

$^{39}\text{K}(p,d)^{38}\text{K}$ reaction at $E_p = 33\text{MeV}$
B. H. Wildenthal, J. A. Rice and B. M. Preedom
Physical Review C 10 (1974) 2184-2196; **7-29-1974**

Study of $^{30}\text{Si}(^3\text{He},p)^{32}\text{P}$ reaction
H. Nann, U. Friedland, B. Hubert, W. Patscher and B. H. Wildenthal
Nuclear Physics A238 (1975) 111-119; **9-19-1974**

A study of the nuclear structure of ^{36}Cl with the (p,d) reaction
J. A. Rice, B. H. Wildenthal, and B. M. Preedom
Nuclear Physics A239 (1975) 189-208; **9-25-1974**

Structure of ^{33}S from a study of the $^{34}\text{S}(p,d)^{33}\text{S}$ reaction at 35 MeV
A. Moalem and B. H. Wildenthal
Physical Review C 11 (1975) 654-663; **9-25-1974**

Microscopic interpretation of inelastic proton scattering from ^{138}Ba and ^{144}Sm
Duane Larson, Sam M. Austin and B. H. Wildenthal
Physical Review C 11 (1975) 1638-1648; **12-9-1974**

The $^{29}\text{Si}(^3\text{He},p)^{31}\text{P}$ reaction
H. Nann, B. H. Wildenthal, H. H. Duhm and H. Hafner
Nuclear Physics A236 (1975) 323-332; **2-27-1975**

$^{17}\text{O}(\alpha,d)^{19}\text{F}$ to the $7/2^+$ and $11/2^+$ states
H. T. Fortune, L. R. Medsker, W. S. Chien, H. Nann and B. H. Wildenthal
Physical Review C 12 (1975) 359-361; **3-24-1975**

$^{37}\text{Cl}(^3\text{He},\alpha\gamma)^{36}\text{Cl}$ reaction: gamma-decay of the two lowest-lying $T=2$ states
J. Vernet, S. Fortier, M. Langevin, J. M. Maison, M. Vergnes and B. H. Wildenthal
Physical Review C 13 (1976) 461-472; **5-27-1975**

$^{37}\text{Cl}(p,^3\text{He})^{35}\text{S}$ reaction

A. Guichard, H. Nann and B. H. Wildenthal
*Physical Review C*12 (1975) 1109-1117; **6-22-1975**

Comment on “prediction of weak-coupling structure from a shell-model basis”
H. Nann, B. H. Wildenthal, A. Saha, and K. K. Seth
Physical Review Letters 35 (1975) 609-611; **6-30-1975**

$f_{7/2}, d_{3/2}^{-1}$ configuration states in ^{41}Ca strongly populated in the $^{39}\text{K}(\alpha, d)$ reactions
H. Nann, W. S. Chien, A. Saha and B. H. Wildenthal
*Physical Review C*12 (1975) 1524-1528; **8-11-1975**

Structure of positive parity states in ^{29}P and 2-step processes in (p,t) reactions
K. K. Seth, A. Saha, H. Nann, and B. H. Wildenthal
Physics Letters B 59 (1975) 333-335; **9-17-1975**

Further comment on spurious center-of-mass motion
J. B. McGrory and B. H. Wildenthal
Physics Letters 60B (1975) 5-8; **10-1-1975**

$^{34}\text{S}(p, t)^{32}\text{S}$ reaction
H. Nann and B. H. Wildenthal
*Physical Review C*13 (1976) 1009-1017; **10-20-1975**

The strongest $L=6$ transitions observed in the (α, d) reaction on odd-mass $A = 33-41$ target nuclei
H. Nann, W. S. Chien, A. Saha and B. H. Wildenthal
Physics Letters 60B (1975) 32-34; **10-31-1975**

Coupled-channel Born approximation analysis of $^{22}\text{Ne}(p, t)^{20}\text{Ne}$ and $^{24}\text{Mg}(p, t)^{22}\text{Mg}$ using model wave functions
C. H. King, M. A. M. Shahabuddin and B. H. Wildenthal
*Nuclear Physics A*270 (1976) 399-412; **2-3-1976**

A high resolution study of ^{26}Al via the (p,d) reaction
D. L. Show, B. H. Wildenthal, J. A. Nolen, Jr., and E. Kashy
*Nuclear Physics A*263 (1976) 293-314; **2-13-1976**

Shell-model calculations for zinc isotopes
J. F. A. van Hienen, W. Chung, and B. H. Wildenthal
Nuclear Physics A 269 (1976) 159-188; **4-9-1976**

Anomalous quenching of $S=1$ two-nucleon transfer
H. Nann and B. H. Wildenthal
Physical Review Letters 37 (1976) 1129-1131; **6-14-1976**

Realistic shell-model calculations
B. H. Wildenthal
Elementary Modes of Excitation in Nuclei
(Proceedings of the International School of Physics Enrico Fermi; course 69) Italian Physical Society, ed. by A. Bohr and R.A. Broglia, North-Holland Publ. Co. (1977) 383-462; **7-26-76**

Calculation of recoil-order matrix elements for the beta decays of ^{20}F and ^{20}Na
F. C. Calaprice, W. Chung and B. H. Wildenthal
*Physical Review C*15 (1977) 2178-2186; **11-1-1976**

High-spin states of (fp) 2 character in $^{34,35,36}\text{Cl}$ and $^{37,39}\text{Ar}$
H. Nann, W. S. Chien, A. Saha and B. H. Wildenthal

*Physical Review C*15 (1977) 1959-1966; **2-10-1977**

The $^{40}\text{Ca}(\alpha, d)^{42}\text{Sc}$ reaction

H. Nann, W. S. Chien, A. Saha, and B. H. Wildenthal

*Nuclear Physics A*292 (1977) 195-204; **6-1-1977**

Spectroscopy of ^{16}C

H. T. Fortune, R. Middleton, M. E. Coburn, G. E. Moore, S. Mordechai, R. V. Kollarits, H. Nann,

W. Chung and B. H. Wildenthal

Physics Letters 70B (1977) 408-410; **6-10-1977**

Analysis of nuclear spectroscopic data with shell-model

B. H. Wildenthal

Tenth Summer School of Nuclear Physics, Mikolajki, Poland

Nukleonika 23 (1978) 459-506; **8-30-1977**

Study of the $^{17}\text{O}(\alpha, d)^{19}\text{F}$ reaction

H. T. Fortune, L. R. Medsker, H. Nann and B. H. Wildenthal

*Nuclear Physics A*301 (1978) 441-447; **10-12-1977**

(p,t) and (p, ^3He) reactions on ^{39}K

H. Nann and B. H. Wildenthal

*Physical Review C*17 (1978) 916-926; **11-27-1977**

Empirical renormalization of the one-body Gamow-Teller beta-decay matrix elements in the ls-0d shell

B. A. Brown, W. Chung and B. H. Wildenthal

Physical Review Letters 40 (1978) 1631-1635; **12-6-1977**

$^{31}\text{P}(\text{}^3\text{He}, d)^{32}\text{S}$ reaction at 25 MeV

J. Kalifa, J. Vernotte, Y. Deschamps, F. Pougheon, G. Rotbard, M. Vergnes and B. H. Wildenthal

*Physical Review C*17 (1978) 1961-1980; **12-27-1977**

$^{21}\text{Ne}(\text{}^3\text{He}, p)^{23}\text{Na}$ reaction

H. T. Fortune, J. R. Powers, R. Middleton, H. Nann and B. H. Wildenthal

*Physical Review C*18 (1978) 1-8; **3-24-1978**

Configuration of ^{19}Ne (4.033, $3/2^+$)

H. T. Fortune, H. Nann and B. H. Wildenthal

*Physical Review C*18 (1978) 1563-1565; **4-27-1978**

Direct determination of $[(sd)^3]_{5/2, 1/2} (lp^{-2})_{01}$ component in ^{17}O (g.s.)

H. T. Fortune, J. N. Bishop, L. R. Medsker and B. H. Wildenthal

Physical Review Letters 41 (1978) 527-529; **5-22-1978**

Mechanism of the $^{26}\text{Mg}(\text{}^{18}\text{O}, \text{}^{16}\text{O})^{28}\text{Mg}$ reaction at $E(\text{}^{18}\text{O}) = 50$ MeV and the energy levels of ^{28}Mg

M. Bernas, M. Roy-Stephan, F. Pougheon, M. Langevin, G. Rotbard, P. Roussel, J. B. LeFevre, M. C. Lemaire, K. S. Low and B. H. Wildenthal

*Physical Review C*19 (1979) 2246-2258; **7-10-1978**

Alpha-particle spectroscopy in Ni and Zn

C. L. Bennett, H. W. Fulbright, J. F. A. van Hienen, W. Chung and B. H. Wildenthal

*Physical Review C*19(1979) 1099-1106; **8-10-1978**

Parity of ^{19}F (5.10) and ^{19}Ne (5.09)

H. T. Fortune, J. N. Bishop, H. Nann and B. H. Wildenthal

*Physical Review C*19 (1979) 1147-1148; **8-28-1978**

Shell-model predictions of α -spectroscopic factors between ground states of $16 \leq A \leq 40$ nuclei

W. Chung, J. F. A. van Hienen, B. H. Wildenthal and C. L. Bennett

Physics Letters 79B (1978) 381-384; **9-25-1978**

Electroexcitation and the determination of the K-band structure of $^{24}\text{Mg}^*$

H. Zarek, S. Yen, B. O. Pich, T. E. Drake, C. F. Williamson, S. Kowalski, C. P. Sargent, W. Chung, B. H. Wildenthal, M. Harvey and H. C. Lee

Physics Letters 80B (1978) 26-29; **9-26-1978**

Alpha-transfer spectroscopic factors in ^{23}Na

W. Chung, H. T. Fortune and B. H. Wildenthal

Physical Review C19 (1979) 530-532; **10-10-1978**

(p,t) and (p, ^3He) reactions on ^{33}S

H. Nann and B. H. Wildenthal

Physical Review C19 (1979) 2146-2154; **11-27-1978**

Implications of experimental magnetic moment values in light nuclei for the presence and characteristics of mesonic exchange currents

B. H. Wildenthal and W. Chung

Mesons in Nuclei, ed. by M. Rho and D. H. Wilkinson, North-Holland Publ. Co. (1979) 723-753

$^{17}\text{O}(^3\text{He,p})^{19}\text{F}$ and the structure of ^{19}F

J. N. Bishop, L. R. Medsker, H. T. Fortune and B. H. Wildenthal

Physical Review C20 (1979) 1221-1227; **1-12-1979**

Microscopic structure of $\Delta J = 1^+$ excitations in sd-shell nuclei

B. H. Wildenthal and W. Chung

The (p,n) Reaction and the Nucleon-Nucleon Force ed. by C.D. Goodman et al.,

Plenum Press, New York (1980) 89-114; **3-29-1979**

Multinucleon transfer reactions induced by ^{18}O on ^{28}Si

M.C. Mermas, A. Greiner, B.T. Kim, M.A.G. Fernandes, N. Lisbona, E. Muller, W. Chung and B. H. Wildenthal

Physical Review C20 (1979) 2130-2142; **6-15-1979**

^{20}O from $^{18}\text{O}(t,p)$

S. LaFrance, H. T. Fortune, S. Mordechai, M. E. Cobern, G. E. Moore, R. Middleton, W. Chung and B. H. Wildenthal

Physical Review C20 (1979) 1673-1679; **7-2-1979**

Systematics of ground-state (t,p) cross sections in the 2s-1d shell

H. T. Fortune, L. Bland, R. Middleton, W. Chung and B. H. Wildenthal

Physics Letters 87B (1979) 29-31; **8-21-1979**

Relative importance of neutron and proton components of nuclear transitions and comparative π/π inelastic scattering

B. A. Brown and B. H. Wildenthal

Physical Review C21 (1980) 2107-2110; **9-14-1979**

Large-scale shell-model calculations

J. B. McGrory and B. H. Wildenthal

Annual Review of Nuclear and Particle Science 30 (1980) 383-436

Electromagnetic multipole moments of ground states of stable odd-mass nuclei in the sd-shell

B. A. Brown, W. Chung and B. H. Wildenthal

Physical Review C22 (1980) 774-786; **1-23-1980**

Inelastic scattering E4 transition probabilities in the 0d, 1s shell

B. A. Brown, W. Chung and B. H. Wildenthal

Physical Review C 21 (1980) 2600-2612; **1-25-1980**

The effective M3 operator and relevant transitions in ^{24}Al , ^{24}Na , ^{34}Cl , ^{38}K and ^{38}Cl

B. A. Brown, S. E. Massen, W. Chung, B. H. Wildenthal and T. A. Shibata

Physical Review C 22 (1980) 842-852; **2-7-1980**

Collapse of the conventional shell-model ordering in the very-neutron-rich isotopes of Na and Mg

B. H. Wildenthal and W. Chung

Physical Review C 22 (1980) 2260-2262; **3-21-1980**

$^{24}\text{Mg}(^{18}\text{O}, ^{16}\text{O})^{26}\text{Mg}$ reaction at $E(^{18}\text{O})=50$ MeV including scattering in entrance and exit channels

M. Bernas, F. Pougheon, M. Roy-Stephan, G. P. A. Berg, B. Berthier, J. P. LeFevre and B. H. Wildenthal

Physical Review C 22 (1980) 1872-1884; **5-12-1980**

Energy levels in ^{23}Mg from the $^{25}\text{Mg}(p,t)^{23}\text{Mg}$ reaction

H. Nann, A. Saha and B. H. Wildenthal

Physical Review C 23 (1981) 606-615; **9-29-1980**

Critique of nuclear spectroscopy

B. H. Wildenthal

Proceedings of the Conference on Nuclear Structure and Particle Physics of the Institute of Physics, Oxford, 6-8 April, 1981 (1981) 85-125; **4-6-1981**

Shell-model calculation of M1 scattering strengths in $^{42,44,48}\text{Ca}$

J. B. McGrory and B. H. Wildenthal

Physics Letters 103B (1981) 173-176; **5-11-1981**

Study of the reactions ^{24}Mg , $^{26}\text{Mg}(^3\text{He},n)^{26}\text{Si}$, ^{28}Si and $^{28}\text{Si}(^3\text{He},n)^{30}\text{S}$

W. Bohne, K. D. Buchs, H. Fuchs, K. Grabisch, D. Hilscher, U. Jahnke, H. Kluge, T. G. Masterson, H. Morgenstern and B. H. Wildenthal

Nuclear Physics A 378, Issue: 3 (1982) 525-538; **10-7-1981**

$(d,^2\text{He})$ reaction at $E_d=99$ MeV

K. B. Beard, J. Kasagi, E. Kashy, B. H. Wildenthal, D. L. Freisel, H. Nann and R. E. Warner

Physical Review C 26 (1982) 720-722; **3-11-1982**

Isovector E2 matrix elements from electromagnetic transitions in the sd-shell: experiment and shell model calculations

B. A. Brown, B. H. Wildenthal, W. Chung, S. E. Massen, M. Bernas, A. M. Bernstein, R. Miskimen, V. R. Brown and V. A. Madsen

Physical Review C 26 (1982) 2247-2272; **6-25-1982**

Strengths of transitions between 0^+ and 1^+ states and their relationship to inelastic electron scattering form factors: the example of ^{24}Mg

B. A. Brown and B. H. Wildenthal,

Physical Review C 27 (1983) 1296-1301; **10-26-1982**

Gamow-Teller strength in the $^{18}\text{O}(p,n)^{18}\text{F}$ reaction at 135 MeV

B. D. Anderson, A. Fazely, R. J. McCarthy, P. C. Tandy, J. W. Watson, R. Madey, W. Bertozzi, T.N. Buti, J. M. Finn, J. Kelly, M. A. Kovash, B. Pugh, B. H. Wildenthal and C. C. Foster

Physical Review C 27 (1983) 1387-1393; **10-26-1982**

Predicted features of the beta decay of neutron-rich sd-shell nuclei

B. H. Wildenthal, M. S. Curtin and B. A. Brown
Physical Review C 28 (1983) 1343-1366; **2-22-1983**

Empirical Strengths of Spin Operators in Nuclei
B. H. Wildenthal

Proceedings of the International School of Nuclear Physics, Erice, Sicily
Progress in Particle and Nuclear Physics, Vol.11, Pergamon Press, Oxford, (1984) 5-51; **4-6-1983**

Corrections to the free-nucleon values of the single-particle matrix elements of the M1 and Gamow-Teller operators, from a comparison of shell-model predictions with sd-shell data

B. A. Brown and B. H. Wildenthal
Physical Review C 28 (1983) 2397-2413; **5-19-1983**

Electric quadrupole and hexadecupole nuclear excitations from the perspectives of electron scattering and modern shell-model theory

B. A. Brown, R. Radhi and B. H. Wildenthal
Physics Reports 101 (1983) 314-358; **6-1-1983**

Simultaneous analysis of magnetic moments and elastic magnetic electron scattering form factors

B. A. Brown, R. Radhi and B. H. Wildenthal
Physics Letters 133B (1983) 5-8; **6-4-1983**

Excitation of the ground state rotational band in ^{20}Ne by 0.8 GeV protons

G. S. Blanpied, G. A. Balchin, G. E. Langston, B. G. Ritchie, M. L. Bartlett, G. W. Hoffman, J. A. McGill, M. A. Franey, M. Gazzaly and B. H. Wildenthal
Physical Review C 30 (1984) 1233-1237; **8-5-1983**

Electromagnetic and Weak Observables in the Context of the Shell Model

B. H. Wildenthal

Thirty Years of Configuration Mixing and Future Directions of Nuclear Shell Model

Proceedings of the International Symposium on Electromagnetic Properties of Atomic Nuclei, ed. by H. Horie and H. Ohnuma, published by Tokyo Inst. of Technology (1984) 42-53; **11-9-1983**

Observation of quenching in isoscalar and isovector 0^+ to 1^+ transitions in $^{28}\text{Si}(p,p)$

Anantaraman, B. A. Brown, G. M. Crawley, A. Galonsky, C. Djalali, N. Marty, M. Morlet, A. Willis, J.C. Jourdain and B. H. Wildenthal
Physical Review Letters 52 (1984) 1409-1412; **12-28-1983**

Bound state M1 transitions in sd-shell nuclei

U. E. P. Berg, K. Ackermann, K. Bangert, C. Blasing, W. Naatz, R. Stock, K. Wienhard, M. K. Brussel, T. E. Chapuran and B. H. Wildenthal
Physics Letters 140B (1984) 191-196; **3-16-1984**

Level densities in ^{20}F : Experimental, shell model and weak-coupling results

H. T. Fortune and B. H. Wildenthal
Physical Review C 30 (1984) 1063-1065; **3-26-1984**

The $^{27}\text{Al}(t,p)^{29}\text{Al}$ reaction at $E_t = 15$ MeV

C. Bland, H. T. Fortune, D. L. Watson, M. A. Abouzeid and B. H. Wildenthal
Nuclear Physics A 431 (1984) 237-255; **5-9-1984**

Shell model predictions for the broad trends and fine details of electromagnetic matrix elements nuclei

B. H. Wildenthal

Capture Gamma-ray Spectroscopy and Related Topics (International Symposium, Knoxville, Tennessee, September 10-14, 1984), AIP Conference Proceedings No. 125, ed. by S. Raman, American Institute of Physics, New York (1985) 89-102; **9-10-1984**

The g-factor of 4^+ states in the N=82 isotones ^{136}Xe and ^{138}Ba

Z. Berant, A. Wolf, John C. Hill, F. K. Wohn, R. L. Gill, H. Mach, M. Rafailovich, H. Kruse, B. H. Wildenthal, G. Peaslee, A. Aprahamian, J. Goulden and C. Chung
Physical Review C 31 (1985) 570-574; **9-27-1984**

The common genesis of energy eigenstates in the $1s_0d$ shell

B. H. Wildenthal

Nuclear Shell Models, ed. by M. Vallieres and B. H. Wildenthal, World Scientific Publishing Co., Singapore, (1985) 346-364; **10-31-1984**

Experimental and theoretical Gamow-Teller beta-decay observables for the sd-shell nuclei

B. A. Brown and B. H. Wildenthal

Atomic Data and Nuclear Data Tables 33 (1985) 347-404

Shell-model analysis of high-resolution data for elastic and inelastic electron scattering on ^{19}F

B. A. Brown, B. H. Wildenthal, C. F. Williamson, F. N. Rad, S. Kowalski, J. Heisenberg, H. Crannell and J. T. O'Brien
Physical Review C 32 (1985) 1127-1156; **4-4-1985**

Spin tensor analysis of a new empirical shell-model interaction for the $1s_0d$ shell nuclei

B. A. Brown, W. A. Richter, and B. H. Wildenthal

Journal of Physics G-Nuclear and Particle Physics 11 (1985) 1191-1198; **5-22-1985**

Electric hexadecapole transition strength in ^{32}S and shell-model predictions for systematics in the sd shell

B. H. Wildenthal, B. A. Brown and I. Sick

Physical Review C 32 (1985) 2185-2188; **6-2-1985**

Beta-delayed proton decays of ^{27}P and ^{31}Cl : A study of Gamow-Teller decays with large Q-values

J. Aysto, X. J. Xu, D. M. Moltz, J. E. Reiff, J. Cerny and B. H. Wildenthal

Physical Review C 32 (1985) 1700-1706; **7-1-1985**

Relationship between Gamow-Teller transition probabilities and (p,n) cross sections at small momentum transfers

J. W. Watson, W. Pairsuwan, B. D. Anderson, A. R. Baldwin, B. S. Flanders, R. Madey, R. J.

McCarthy, B. A. Brown and B. H. Wildenthal

Physical Review Letters 55 (1985) 1369-1372; **7-12-1985**

Analysis of features in the A=34-48 region in terms of $d_{3/2}$ and $f_{7/2}$ degrees of freedom

S. T. Hsieh, X. Ji, R. Mooy and B. H. Wildenthal

Nuclear Structure at High Spin, Excitation and Momentum Transfer, ed. by Hermann Nann, AIP Conference Proceedings No. 142 (1986) 357-375; **10-21-1985**

Search for missing predicted high-spin states in ^{28}Si

F. Glatz, M. Lickert, A. Bunkard, Th. Kern, R. Lehmann, S. Norbert, H. Röpke, J. Siefert and

B. H. Wildenthal

Zeitschrift für Physik A 324 (1986) 173-185; **11-19-1985**

Two-neutron excitations in ^{26}Mg and ^{30}Si

W. P. Alford, J. A. Cameron, E. Habib and B. H. Wildenthal

Nuclear Physics A 454 (1986) 189-212; **11-18-1985**

High-spin states in ^{26}Mg

F. Glatz, S. Norbert, E. Bitterwolf, A. Burkard, F. Heidinger, Th. Kern, R. Lehmann, H. Röpke,

J. Siefert, C. Schneider and B. H. Wildenthal

Zeitschrift für Physik A 324 (1986) 187-204; **11-19-1985**

Structure of ^{22}Mg , ^{26}Si , ^{34}Ar and ^{38}Ca via the ($^3\text{He},n$) reaction

W. P. Alford, P. Craig, D. A. Lind, R. S. Raymond, J. Ullman, C. D. Zafiratos and B. H. Wildenthal

Nuclear Physics A457 (1986) 317-336; **3-13-1986**

Study of (π/π ,p) reactions at low excitation energy

G. S. Blanpied, C. S. Mishra, G. S. Adams, B. M. Preedom, C. S. Whisnant, J. P. Egger, C. L. Morris, H. Breur, N. S. Chant, B. G. Richie, B. H. Wildenthal, B. Hoistad and B. A. Brown

Physical Review C35 (1987) 1567-1569; **6-16-1986**

Core Polarization Effects on Transition Densities in Medium-Heavy Nuclei

H. Sagawa, O. Scholten, B. A. Brown and B. H. Wildenthal

Nuclear Physics A462 (1987) 1-25; **6-23-1986**

Shell-model analyses of weak and electromagnetic data: The interplay of many-body and single-nucleonic features

B. H. Wildenthal

Proceedings of the International Symposium, Heidelberg, *Weak and Electromagnetic Interactions in*

Nuclei, ed. by H. V. Klapdor, Springer-Verlag (1986) 18-24; **7-1-1986**

Quadrupole moments of sd-shell nuclei

M. Carchidi, B. H. Wildenthal and B. A. Brown

Physical Review C34 (1986) 2280-2297; **8-7-1986**

M1 radiation widths in ^{27}Al

R. Vodhanel, R. Moreh, W. C. Sellyey, M. K. Brussel and B. H. Wildenthal

Physical Review C35 (1987) 921-930; **8-25-1986**

Lifetime of the lowest 0^+ , T=1 state of ^{22}Na

B. T. Neyer, D. L. Clark, J. S. Dunham, W. A. Seale, J. L. Thornton, R. T. Westervelt, S. S. Hanna, B. A. Brown and B. H. Wildenthal

Physical Review C35 (1987) 890-893; **11-17-1986**

Short lifetimes in ^{30}P

P. Tikkanen, J. Keinonen and R. Lappalainen and B. H. Wildenthal

Physical Review C36 (1987) 32-43; **2-24-1987**

Gamow-Teller Strength in the $^{26}\text{Mg}(p,n)^{26}\text{Al}$ Reaction at 135 MeV and its Fractionation into T= 0, 1, and 2 Isospin Channels

R. Madey, B. S. Flanders, B. D. Anderson, A. R. Baldwin, C. Lebo, J. W. Watson, S. M. Austin, A. Galonsky, B. H. Wildenthal and C. C. Foster

Physical Review C35 (1987) 2011-2022; **3-6-1987**

Prediction of a new high-spin mode of transverse excitation in electron scattering from nuclei

B. A. Brown and B. H. Wildenthal

Physics Letters B198 (1987) 29-32; **3-20-1987**

Gamow-Teller beta decay of ^{29}Na : Comparison with shell-model predictions

P. Baumann, Ph. Dessagne, A. Huck, G. Klotz, A. Knipper, G. Marguier, C. Miede, M. Ramdane, C. Richard-Serre, G. Walter and B. H. Wildenthal

Physical Review C36 (1987) 765-773; **3-23-1987**

Rotational collectivity in shell-model wave functions for $A=20-28$ nuclei

M. Carchidi and B. H. Wildenthal

Physical Review C37 (1988) 1681-1696; **4-30-1987**

Empirically optimum M1 operator for sd-shell nuclei

B. A. Brown and B. H. Wildenthal

Nuclear Physics A474 (1987) 290-306; **5-11-1987**

Gamow-Teller and M1 Strength in the $^{32}\text{S}(p,n)^{32}\text{Cl}$ Reaction at 135 MeV

B. D. Anderson, T. C. Chittarakarn, A. R. Baldwin, C. Lebo, R. Madey, P. C. Tandy, J. W. Watson, C. C. Foster, B. A. Brown and B. H. Wildenthal

Physical Review C 36 (1987) 2195-2205; **5-28-1987**

High-spin states and rotational coexistence in ^{25}Mg

D. M. Headly, R. K. Sheline, S. L. Tabor, U. J. Hüttmeier, C. J. Gross, E. F. Moore, B. H. Wildenthal, H. R. Weller, R. M. Whitton and I. Ragnarsson

Physics Letters B 198 (1987) 433-437; **6-24-1987**

Elastic and inelastic scattering of 0.8 GeV protons from ^{40}Ar

G. S. Blanpied, B. G. Ritchie, M. L. Barlett, R. W. Ferguson, J. A. McGill and B. H. Wildenthal

Physical Review C 37 (1988) 1304-1306; **9-23-1987**

Beta decay rates of sd-shell nuclei in stellar interiors

T. Kajino, E. Shiino, H. Toki, B. A. Brown and B. H. Wildenthal

Nuclear Physics A 480 (1988) 175-187; **9-28-1987**

Effective Interaction for N=50 isotones

X. Ji and B. H. Wildenthal

Physical Review C 37 (1988) 1256-1266; **10-5-1987**

Elastic and inelastic scattering of 0.8 GeV protons from ^{20}Ne and ^{22}Ne

G. S. Blanpied, B. G. Ritchie, M. L. Barlett, R. W. Ferguson, G. W. Hoffmann, J. A. McGill and B. H. Wildenthal

Physical Review C 38 (1988) 2180-2186; **10-22-1987**

Semi-empirical effective interactions for the ls-0d shell

B. A. Brown, W. A. Richter, R. E. Julies and B. H. Wildenthal

Annals of Physics 182 (1988) 191-236; **12-7-1987**

Test of the singly magic character of the N=50 isotope ^{83}As populated in ^{83}Ge decay

J. A. Winger, J. C. Hill, F. K. Wohn, R. L. Gill, X. Ji and B. H. Wildenthal

Physical Review C 38 (1988) 285-294; **12-29-1987**

Status of the nuclear shell model

B. A. Brown and B. H. Wildenthal

Annual Review of Nuclear and Particle Science 38 (1988) 29-65

Ground state M1 strengths of $d_{5/2}^{-1}$ levels in ^{39}K

R. Moreh, W. M. Sandefur, W. C. Sellyey, D. C. Sutton and B. H. Wildenthal

Physical Review C 37 (1988) 2428-2434; **1-29-1988**

Gamma decay of high spin states in ^{25}Mg above 6.1 MeV

D. M. Headly, R. K. Sheline, S. L. Tabor, U. J. Hüttmeier, C. J. Gross, E. F. Moore, B. H. Wildenthal, H. R. Weller, R. M. Whitton and I. Ragnarsson

Physical Review C 38 (1988) 1698-1721; **2-24-1988**

Spins, parities and isospins of ^{26}Al levels: Shell-Model aspects

P. M. Endt, P. de Wit, C. Alderliesten and B. H. Wildenthal

Nuclear Physics A 487 (1988) 221-250; **4-7-1988**

Neutron-proton weak coupling: Reducing shell-model dimensions by truncations in the neutron and Proton subspaces

A. Etchegoyen, M. C. Etchegoyen and B. H. Wildenthal

Physical Review C 39 (1989) 680-686; **5-4-1988**

Analysis of magnetic dipole transitions between *sd*-shell states

M. C. Etchegoyen, A. Etchegoyen, B. H. Wildenthal, B. A. Brown and J. Keinonen

Physical Review C 38 (1988) 1382-1391; **5-9-1988**

Limits to realistic shell-model calculations

B. H. Wildenthal

Second International Spring Seminar on Nuclear Physics, Capri, Italy

Shell-Model and Nuclear Structure: Where Do We Stand?, ed. by A. Covello, World Scientific

Publishing Co., Singapore (1989) 97-106; **5-16-1988**

Comparisons between shell-model calculations, seniority truncation, and quasi-particle approximations:

Application to the odd Ni isotopes and odd $N = 82$ isotones

L. Losano, H. Dias, F. Krmpotic and B. H. Wildenthal

Physical Review C 38 (1988) 2902-2920; **6-6-1988**

Structure of ^{27}Al

M. Lickert, J. Brenneisen, F. Glatz, D. Grathwohl, A. Martinez v. Remisowski, H. Röpke, J. Siefert and B. H. Wildenthal

Zeitschrift für Physik A 331 (1988) 409-432; **6-27-1988**

Structure of the mirror nuclei ^{21}Ne and ^{21}Na

A. Hoffman, P. Betz, H. Röpke, and B. H. Wildenthal

Zeitschrift für Physik A 332 (1989) 289-304; **8-1-1988**

Shell-model predictions for electromagnetic properties of $N = 50$ nuclei

Xiangdong Ji and B. H. Wildenthal

Physical Review C 38 (1988) 2849-2859; **8-9-1988**

Shell-model calculations of the neutron-rich ^{40}Cl nucleus

Xiangdong Ji and B. H. Wildenthal

Physical Review C 39 (1989) 701-703; **9-12-1988**

A generalized LS-coupling scheme for shell-model calculations and related truncation schemes

Xiangdong Ji, B. H. Wildenthal, and M. Vallieres

Nuclear Physics A 492 (1989) 215-236; **9-15-1988**

Short lifetimes in ^{24}Mg for test of rotational collectivity in shell-model wave functions

J. Keinonen, P. Tikkanen, A. Kuronen, Á. Z. Kiss, E. Somorjai and B. H. Wildenthal

Nuclear Physics A 493 (1989) 124-144; **11-3-1988**

Pion elastic and inelastic scattering from ^{24}Mg and ^{26}Mg

G.S. Blanpied, J. Hernandez, C. S. Mishra, W. K. Mize, C. S. Whisnant, B. G. Ritchie, C. L. Morris, S. J.

Seestrom-Morris, C. Fred Moore, P. A. Seidl, R. A. Lindgren, B. H. Wildenthal and R. Gilman

Physical Review C 41 (1990) 1625-1636; **11-18-1988**

Shell-model calculations for the energy levels of the $N = 50$ isotones with $A = 80-87$

Xiangdong Ji and B. H. Wildenthal

Physical Review C 40 (1989) 389-398; **12-20-1988**

Chaotic behavior of the nuclear shell-model Hamiltonian

H. Dias, M. S. Hussein, N. A. de Oliveira, and B. H. Wildenthal

Journal of Physics G 15 (1989) L79-L84; **1-3-1989**

Shell model predictions and Gamow-Teller data

B. H. Wildenthal

Yamada Conference XXIII, Osaka, Japan

Nuclear Weak Process and Nuclear Structure, ed. by M. Morita, H. Ejiri, H. Ohtsubo and T. Sato, World Scientific Publishing Co., Singapore (1989) 314-329; **6-12-1989**

$^{30}\text{Si}(^3\text{He},d)^{31}\text{P}$ reaction at 25 MeV

J. Verotte, A. Khendriche, G. Berrier-Ronsin, S. Grafeuille, J. Kalifa, G. Rotbard, R. Tamsier and B. H. Wildenthal
Physical Review C 41 (1990) 1956-1974; **4-12-1989**

Short lifetimes in ^{29}Si - ^{29}P for the test of shell-model wave functions

P. Tikkanen, J. Keinonen, A. Kuronen, A. Z. Kiss, E. Koltay, E. Pintye and B. H. Wildenthal
Nuclear Physics A 517 (1990) 176-192; **3-22-1990**

Shell-model calculations for exotic nuclei

B. A. Brown, E. K. Warburton and B. H. Wildenthal

Proceedings of the Workshop, Nuclear Structure of Light Nuclei Far From Stability - Experiment and Theory, ed. by G. Klotz, Centre de Recherches Nucleaires, Strasbourg (1990) 147-189; **11-27-1989**

Lifetimes of the lowest $5/2^+$ and $9/2^+$ states in the mirror nuclei ^{23}Na - ^{23}Mg

P. Tikkanen, J. Keinonen, K. Arstila, A. Kuronen and B. H. Wildenthal
Physical Review C 42 (1990) 581-587; **2-13-1990**

Structure of ^{25}Mg

F. Heidinger, P. Betz, W. Brendler, F. Glatz, A. Hoffmann, H. Röpke and B. H. Wildenthal
Zeitschrift für Physik A 338 (1991) 23-49; **6-5-1990**

Shell structure in the identical-particle, multi-orbit space for $N = 82$ nuclei

B. H. Wildenthal

3rd International Spring Seminar on Nuclear Physics, May 21-25, 1990 Ischia, Italy

Understanding the Variety of Nuclear Excitations, ed. by Aldo Covello, World Scientific Publishing Co., Singapore (1991) 35-52; **5-21-1990**

Pion scattering to 6^- stretched states in ^{24}Mg and ^{26}Mg

R. A. Lindgren, B. L. Clausen, G. S. Blanpied, J. Hernandez, C. S. Mishra, W. K. Mize, C. S.

Whisnant, B. G. Ritchie, C. L. Morris, S. J. Seestrom-Morris, C. Fred Moore, P. A. Seidl, B. H. Wildenthal, R. Gilman and J. A. Carr

Physical Review C 44 (1991) 2413-2418; **8-20-1991**

Beta-delayed proton decay of ^{25}Si

J. D. Robertson, D. M. Moltz, T. F. Lang, J. E. Reiff, J. Cerny and B. H. Wildenthal
Physical Review C 47 (1993) 1455-1465; **9-8-1992**

$^{27}\text{Al}(d,^3\text{He})^{26}\text{Mg}$ reaction at 29 MeV

J. Verotte, G. Berrier-Ronsin, S. Fortier, E. Hourani, J. Kalifa, J. M. Maison, L. H. Rosier, G. Rotbard and B. H. Wildenthal

Physical Review C 48 (1993) 205-220; **2-1-1993**

Spectroscopic factors from one-proton stripping reactions on sd-shell nuclei: experimental measurements and shell-model calculations

J. Verotte, G. Berrier-Ronsin, J. Kalifa, R. Tamsier and B. H. Wildenthal

Nuclear Physics A 571 (1994) 1-42; **2-4-1993**

Absence of M3 quenching in ^{26}Mg

K. K. Seth, S. Soundranayagam, A. Saha, C. W. de Jager, H. de Vries, B. A. Brown and B. H. Wildenthal

Physical Review Letters 74, Issue 5 (1995) 642-645; **9-10-1993**

Structure of ^{28}Si above 10 MeV excitation energy I: gamma-decay modes and radiative widths of levels
J. Brenneisen, D. Grathwohl, M. Lickert, R. Ott, H. Röpke, J. Schmälzlin, P. Siedle and B. H. Wildenthal
Zeitschrift für Physik A 352 (1995) 149-159; **2-2-1995**

Structure of ^{28}Si above 10 MeV excitation energy II: assignments of quantum numbers
J. Brenneisen, D. Grathwohl, M. Lickert, R. Ott, H. Röpke, J. Schmälzlin, P. Siedle and B. H. Wildenthal
Zeitschrift für Physik A 352 (1995) 279-291; **2-2-1995**

Structure of ^{28}Si above 10 MeV excitation energy III: level scheme and shell model interpretation
J. Brenneisen, D. Grathwohl, M. Lickert, R. Ott, H. Röpke, J. Schmälzlin, P. Siedle and B. H. Wildenthal
Zeitschrift für Physik A 352 (1995) 403-415; **2-2-1995**

Quantum numbers of ^{26}Al levels above 6 MeV excitation energy
J. Brenneisen, D. Grathwohl, B. Ehrhard, P. M. Endt, S. Fischer, M. Lickert, R. Ott, H. Röpke, J. Schmälzlin, P. Siedle,
and B. H. Wildenthal
Zeitschrift für Physik A 354 (1996) 301-310; **10-2-1995**

Structure of ^{32}S I. Spectroscopy of highly-excited states
J. Brenneisen, B. Erhardt, F. Glatz, T. Kern, R. Ott, H. Röpke, J. Schmälzlin, P. Siedle, and B. H.
Wildenthal
Zeitschrift für Physik A-Hadrons and Nuclei 357 (1997) 157-173; **8-8-1996**

Structure of ^{32}S II. Shell model interpretation
J. Brenneisen, B. Erhardt, F. Glatz, T. Kern, R. Ott, H. Röpke, J. Schmälzlin, P. Siedle, and B. H.
Wildenthal
Zeitschrift für Physik A-Hadrons and Nuclei 357 (1997) 377-386; **12-11-1996**

$^{25}\text{Mg}(d, ^3\text{He})^{24}\text{Na}$ reaction at 29 MeV and a spectroscopic analysis of the levels of ^{24}Na
http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=1FnKF1a2kPmc27O4aO2&page=1&doc=2&cacheurlFromRightClick=noJ. Vernotte, G. Berrier-Ronsin, S. Fortier, E. Hourani, J. Kalifa, J.M.
Maison, L.H. Rosier, G. Rotbard,
and B. H. Wildenthal
Physical Review C 57 (1998) 1256-1268; **10-14-1997**