

Bryan Hobson Wildenthal - Curriculum Vita

09/13/02

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

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

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

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

Cecil H. Green Distinguished Chair of Academic Leadership, The University of Texas at Dallas, 2001

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

Bryan Hobson Wildenthal

Articles in Refereed Journals:

- J181. Structure of ^{32}S
J. Brenneisen, B. Erhardt, F. Glatz, T. Kern, R. Ott, H. Röpke, J. Schmäglin, P. Siedle and B. H. Wildenthal to be published
- J180. 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. Schmäglin, P. Siedle, and B. H. Wildenthal
Zeitschrift für Physik A 354 (1996) 301-310
- J179. 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 (1995) 642-645
- J178. 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. Schmäglin, P. Siedle and B. H. Wildenthal
Zeitschrift für Physik A 352 (1995) 403-415
- J177. 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. Schmäglin, P. Siedle and B. H. Wildenthal
Zeitschrift für Physik A 352 (1995) 279-291
- J176. 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. Schmäglin, P. Siedle and B. H. Wildenthal
Zeitschrift für Physik A 352 (1995) 149-159
- J175. 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. Tamisier and B. H. Wildenthal
Nuclear Physics A571 (1994) 1-42
- J174. $^{27}\text{Al}(d,^3\text{He})^{26}\text{Mg}$ 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 C48 (1993) 205-220
- J173. 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 C47 (1993) 1455-1465

- J172. 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 C44 (1991) 2413-2418
- J171. The structure of ^{25}Mg
F. Heidinger, P. Betz, W. Brendler, F. Glatz, A. Hoffmann, H. Röpke and B. H. Wildenthal
Zeitschrift für Physik A338 (1991) 23-49
- J170. 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 A517 (1990) 176-192
- J169. 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 C42 (1990) 581-587
- J168. $^{30}\text{Si}(^3\text{He},d)^{31}\text{P}$ reaction at ^{25}MeV
J. Verotte, A. Khendriche, G. Berrier-Ronsin, S. Grafeuille, J. Kalifa, G. Rotbard, R. Tamisier and B. H. Wildenthal
Physical Review C41 (1990) 1956-1974
- J167. 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 C41 (1990) 1625-1636
- J166. Shell-model calculations for the energy levels of the $N = 50$ isotones with $A = 80-87$
Xiangdong Ji and B. H. Wildenthal
Physical Review C40 (1989) 389-398
- J165. Chaotic behaviour 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
- J164. 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 A493 (1989) 124-144
- J163. A generalized LS-coupling scheme for shell-model calculations and related truncation schemes
Xiangdong Ji, B. H. Wildenthal, and M. Vallieres
Nuclear Physics A492 (1989) 215-236
- J162. Structure of the mirror nuclei ^{21}Ne and ^{21}Na
A. Hoffman, P. Betz, H. Röpke, and B. H. Wildenthal
Zeitschrift für Physik A332 (1989) 289-304

- J161. Shell-model calculations of the neutron-rich ^{40}Cl nucleus
Xiangdong Ji and B. H. Wildenthal
Physical Review C39 (1989) 701-703
- J160. 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 C39 (1989) 680-686
- J159. The 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 A331 (1988) 409-432
- J158. 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 A487 (1988) 221-250.
- J157. 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 C38 (1988) 2902-2920
- J156. Shell-model predictions for electromagnetic properties of $N = 50$ nuclei
Xiangdong Ji and B. H. Wildenthal
Physical Review C38 (1988) 2849-2859
- J155. 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 C38 (1988) 2180-2186
- J154. 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 C38 (1988) 1698-1721
- J153. 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 C38 (1988) 1382-1391
- J152. Test of the singly magic character of the $N=50$ isotone ^{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 C38 (1988) 285-294
- J151. 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 C37 (1988) 2428-2434

- J150. Rotational collectivity in shell-model wave functions for $A = 20-28$ nuclei
M. Carchidi and B. H. Wildenthal
Physical Review C37 (1988) 1681-1696
- J149. Elastic and inelastic scattering of 0.8 GeV protons from ^{40}Ar
G. S. Blanpied, B. G. Ritchie, M. L. Barlett, R. W. Fergerson, J. A. McGill and B. H. Wildenthal
Physical Review C37 (1988) 1304-1306
- J148. Effective Interaction for $N=50$ isotones
X. Ji and B. H. Wildenthal
Physical Review C37 (1988) 1256-1266
- J147. Status of the nuclear shell model
B. A. Brown and B. H. Wildenthal
Annual Review of Nuclear and Particle Science 38 (1988) 29-65
- J146. Semi-empirical effective interactions for the $1s-0d$ shell
B. A. Brown, W. A. Richter, R. E. Julies and B. H. Wildenthal
Annals of Physics 182 (1988) 191-236
- J145. 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 A480 (1988) 175-187
- J144. Empirically optimum $M1$ operator for sd -shell nuclei
B. A. Brown and B. H. Wildenthal
Nuclear Physics A474 (1987) 290-306
- J143. 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 B198 (1987) 433-437
- J142. 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
- J141. Gamow-Teller and $M1$ Strength in the $^{32}\text{S}(p,n)^{32}\text{Cl}$ Reaction at 135 MeV
B. D. Anderson, T. C. Chittrakarn, 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 C36 (1987) 2195-2205
- J140. 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

- J139. Short lifetimes in ^{30}P
P. Tikkanen, J. Keinonen and R. Lappalainen and B. H. Wildenthal
Physical Review C36 (1987) 32-43
- J138. 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
- J137. Study of (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
- J136. 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
- J135. 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
- J134. 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
- J133. Quadrupole moments of sd-shell nuclei
M. Carchidi, B. H. Wildenthal and B. A. Brown
Physical Review C34 (1986) 2280-2297
- J132. Structure of ^{22}Mg , ^{26}Si , 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
- J131. Two-neutron excitations in ^{26}Mg and ^{30}Si
W. P. Alford, J. A. Cameron, E. Habib and B. H. Wildenthal
Nuclear Physics A454 (1986) 189-212
- J130. 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 A324 (1986) 187-204

- J129. Search for 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 A324 (1986) 173-186
- J128. Electric hexadecupole 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 C32 (1985) 2185-2188
- J127. 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 C32 (1985) 1700-1706
- J126. 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 C32 (1985) 1127-1156
- J125. Spin-tensor analysis of effective nuclear interactions in the 1s-0d shell
 B. A. Brown, W. A. Richter and B. H. Wildenthal
 Journal of Physics G 11 (1985) 1191-1198
- J124. 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
- J123. 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
- J122. 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 C31 (1985) 570-574
- J121. 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 A431 (1984) 237-255
- J120. 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 C30 (1984) 1233-1237

- J119. Level densities in ^{20}F : Experimental, shell model and weak-coupling results
H. T. Fortune and B. H. Wildenthal
Physical Review C30 (1984) 1063-1065
- J118. 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
- J117. Observation of quenching in isoscalar and isovector $0^+ \rightarrow 1^+$ transitions in $^{28}\text{Si}(p,p)$
N. 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
- J116. 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
- J115. 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 C28 (1983) 2397-2413
- J114. Predicted features of the beta decay of neutron-rich sd-shell nuclei
B. H. Wildenthal, M. S. Curtin and B. A. Brown
Physical Review C28 (1983) 1343-1366
- J113. 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
- J112. 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 C27 (1983) 1387-1393
- J111. 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 C27 (1983) 1296-1301
- J110. The $^{26}\text{Mg}(^3\text{He},n)^{28}\text{Si}$ reaction
W. K. D. Bohne, H. Buchs, K. Fuchs, D. Grabisch, U. Hilscher, U. Janke, T. G. Kenge, H. Masterson, H. Morgenstern and B. H. Wildenthal
Nuclear Physics A378 (1982) 525

- J109. 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 C26 (1982) 2247-2272
- J108. (d,²He) 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 C26 (1982) 720-722
- J107. Shell-model calculation of M1 scattering strengths in ^{42,44,48}Ca
J. B. McGrory and B. H. Wildenthal
Physics Letters 103B (1981) 173-176
- J106. Energy levels in ²³Mg from the ²⁵Mg(p,t)²³Mg reaction
H. Nann, A. Saha and B. H. Wildenthal
Physical Review C23 (1981) 606-615
- J105. 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 C22 (1980) 2260-2262
- J104. ²⁴Mg(¹⁸O, ¹⁶O)²⁶Mg reaction at E(¹⁸O)=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 C22 (1980) 1872-1884
- J103. The effective M3 operator and relevant transitions in ²⁴Al, ²⁴Na, ³⁴Cl, ³⁸K and ³⁸Cl
B. A. Brown, S. E. Massen, W. Chung, B. H. Wildenthal and T. A. Shibata
Physical Review C22 (1980) 842-852
- J102. 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
- J101. Inelastic scattering E4 transition probabilities in the 0d, 1s shell
B. A. Brown, W. Chung and B. H. Wildenthal
Physical Review C21 (1980) 2600-2612
- J100. 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
- J99. 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

- J98. 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
- J97. ^{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
- J96. $^{17}\text{O}(^3\text{He},p)^{19}\text{F}$ 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
- J95. Mechanism of the $^{26}\text{Mg}(^{18}\text{O}, ^{16}\text{O})^{28}\text{Mg}$ reaction at $E(^{18}\text{O}) = 50$ 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 C19 (1979) 2246-2258
- J94. (p,t) and $(p,^3\text{He})$ reactions on ^{33}S
H. Nann and B. H. Wildenthal
Physical Review C19 (1979) 2146-2154
- J93. Parity of $^{19}\text{F}(5.10)$ and $^{19}\text{Ne}(5.09)$
H. T. Fortune, J. N. Bishop, H. Nann and B. H. Wildenthal
Physical Review C19 (1979) 1147-1148
- J92. 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 C19(1979) 1099-1106
- J91. Alpha-transfer spectroscopic factors in ^{23}Na
W. Chung, H. T. Fortune and B. H. Wildenthal
Physical Review C19 (1979) 530-532
- J90. 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
- J89. 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
- J88. Direct determination of $[(sd)^3]_{5/2\ 1/2}(lp^{-2})_{01}$ component in $^{17}\text{O}(\text{g.s.})$
H. T. Fortune, J. N. Bishop, L. R. Medsker and B. H. Wildenthal
Physical Review Letters 41 (1978) 527-529

- J87. 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 A301 (1978) 441-447
- J86. Empirical renormalization of the one-body Gamow-Teller beta-decay matrix elements in the 1s-0d shell
B. A. Brown, W. Chung and B. H. Wildenthal
Physical Review Letters 40 (1978) 1631-1635
- J85. Configuration of ^{19}Ne (4.033, $3/2^+$)
H. T. Fortune, H. Nann and B. H. Wildenthal
Physical Review C18 (1978) 1563-1565
- J84. $^{21}\text{Ne}(^3\text{He}, p)^{23}\text{Na}$ reaction
H. T. Fortune, J. R. Powers, R. Middleton, H. Nann and B. H. Wildenthal
Physical Review C18 (1978) 1-8
- J83. $^{31}\text{P}(^3\text{He}, d)^{32}\text{S}$ reaction at 25 MeV
J. Kalifa, J. Veronotte, Y. Deschamps, F. Pougheon, G. Rotbard, M. Vergnes and B. H. Wildenthal
Physical Review C17 (1978) 1961-1980
- J82. (p,t) and (p, ^3He) reactions on ^{39}K
H. Nann and B. H. Wildenthal
Physical Review C17 (1978) 916-926
- J81. The $^{40}\text{Ca}(\alpha, d)^{42}\text{Sc}$ reaction
H. Nann, W. S. Chien, A. Saha, and B. H. Wildenthal
Nuclear Physics A292 (1977) 195-204
- J80. 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
- J79. 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 C15 (1977) 2178-2186
- J78. 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 C15 (1977) 1959-1966
- J77. Anomalous quenching of S=1 two-nucleon transfer
H. Nann and B. H. Wildenthal
Physical Review Letters 37 (1976) 1129-1131

- J76. A 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 A270 (1976) 399-412
- J75. Shell model for the Zinc isotopes
F. A. van Hienen, W. Chung and B. H. Wildenthal
Nuclear Physics A269 (1976) 159-188
- J74. 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 A263 (1976) 293-314
- J73. $^{34}\text{S}(p,t)^{32}\text{S}$ reaction
H. Nann and B. H. Wildenthal
Physical Review C13 (1976) 1009-1017
- J72. $^{37}\text{Cl}(^3\text{He},\alpha\gamma)^{36}\text{Cl}$ reaction: gamma-decay of the two lowest-lying T=2 states
J. Verotte, S. Fortier, M. Langevin, J. M. Maison, M. Vergnes and B. H. Wildenthal
Physical Review C13 (1976) 461-472
- J71. 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
- J70. Further comment on spurious center-of-mass motion
J. B. McGrory and B. H. Wildenthal
Physics Letters 60B (1975) 5-8
- J69. Structure of positive-parity states in ^{29}P and two-step processes in (p,t) reactions
K. K. Seth, A. Saha, H. Nann, and B. H. Wildenthal
Physics Letters 59B (1975) 333-335
- J68. 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
- J67. $f_{7/2}^2 - d_{3/2}^{-1}$ 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 C12 (1975) 1524-1528
- J66. $^{37}\text{Cl}(p,^3\text{He})^{35}\text{S}$ reaction
A. Guichard, H. Nann and B. H. Wildenthal
Physical Review C12 (1975) 1109-1117
- J65. $^{17}\text{O}(\alpha,d)^{19}\text{F}$ 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 C12 (1975) 359-361

- J64. 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
- J63. Study of the $^{30}\text{Si}(^3\text{He,p})^{32}\text{P}$ reaction
 H. Nann, U. Friedland, B. Hubert, W. Patscher and B. H. Wildenthal
 Nuclear Physics A238 (1975) 111-119
- J62. 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
- J61. Microscopic interpretation of inelastic proton scattering from ^{138}Ba and ^{144}Sm
 Duane Larson, Sam M. Austin and B. H. Wildenthal
 Physical Review C11 (1975) 1638-1648
- J60. Decays of the $f_{7/2}$ isomers, $^{53}_g\text{Fe}$ and $^{53}_m\text{Fe}$
 J. A. Black, Wm. C. McHarris, W. H. Kelly and B. H. Wildenthal
 Physical Review C11 (1975) 939-951
- J59. 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 C11 (1975) 654-663
- J58. $^{39}\text{K}(p,d)^{38}\text{K}$ reaction at $E = 33$ MeV
 B. H. Wildenthal, J. A. Rice and B. M. Preedom
 Physical Review C10 (1974) 2184-2196.
- J57. (p, ^3He) and (p,t) reactions on ^{29}Si
 H. Nann, W. Benenson, W. A. Lanford and B. H. Wildenthal
 Physical Review C10 (1974) 1001-1012
- J56. 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
- J55. (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
- J54. 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
- J53. Inelastic proton scattering from ^{138}Ba and ^{144}Sm at 30 MeV
 Duane Larson, Sam M. Austin and B. H. Wildenthal
 Physical Review C9 (1974) 1574-1588

- J52. A shell-model calculation for masses 15, 16 and 17
B. S. Reehal and B. H. Wildenthal
Particles and Nuclei 6 (1973) 137-179
- J51. Mass of ^{31}S
A. Moalem and B. H. Wildenthal
Physical Review C8 (1973) 1961-1962
- J50. Isospin mixing from the effective nucleon interaction
G.F. Bertsch and B. H. Wildenthal
Physical Review C8 (1973) 1023-1028
- J49. Shell-model study of ^{24}Ne
R. G. H. Robertson and B. H. Wildenthal
Physical Review C8 (1973) 241-246
- J48. An anomalous MI transition in ^{38}Cl
S. Maripuu, B. H. Wildenthal and A. O. Evaraye
Physics Letters 43B (1973) 368-370
- J47. Shell-model calculations for A=18, 19 and 20 nuclei with core excitation included explicitly
J. B. McGrory and B. H. Wildenthal
Physical Review C7 (1973) 974-993
- J46. 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 A206 (1973) 305-320
- J45. 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 C7 (1973) 714-732
- J44. Calculations of allowed beta decay in the (0d-1s) shell
W. A. Lanford and B. H. Wildenthal
Physical Review C7 (1973) 668-676
- J43. Energy levels in ^{142}Nd
S. Raman, J. L. Foster, Jr., O. Dietzsch, D. Spalding, L. Bimbot and B. H. Wildenthal
Nuclear Physics A201 (1973) 21-40
- J42. 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
- J41. 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

- J40. Shell-model calculations for ^{22}Na and ^{22}Ne
B. M. Freedom and B. H. Wildenthal
Physical Review C6 (1972) 1633-1644
- J39. 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
- J38. 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
- J37. 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
- J36. 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
- J35. $^{19}\text{F}(d,p)^{20}\text{F}$ and the nuclear structure of ^{20}F
H. T. Fortune, G. C. Morrison, R. C. Barse, J. L. Yntema and B. H. Wildenthal
Physical Review C6 (1972) 21-29
- J34. 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
- J33. 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
- J32. 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
- J31. 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
- J30. The structure of the lighter N = 82 nuclei
B. H. Wildenthal and Duane Larson
Physics Letters 37B (1971) 266-268

- J29. 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
- J28. Calculations with a $1s-0d$ 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
- J27. 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
- J26. 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
- J25. 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
- J24. 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
- J23. 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
- J22. Shell-model structure of $^{42-50}\text{Ca}$
J. B. McGrory, B. H. Wildenthal and E. C. Halbert
Physical Review C2 (1970) 186-212
- J21. 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
- J20. Structure of levels of ^{141}Pr
B. H. Wildenthal
Physics Letters 29B (1969) 274-276
- J19. Shell model for $N = 82$ nuclei
B. H. Wildenthal
Physical Review Letters 22 (1969) 1118-1120
- J18. Nature of 0^+ levels in Calcium isotopes
J. B. McGrory and B. H. Wildenthal
Physics Letters 28B (1968) 237-239

- J17. Study of a possible 3^+ level in ^{30}Si
B. H. Wildenthal and E. Newman
Physics Letters 28B (1968) 108-110
- J16. 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
- J15. 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
- J14. 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
- J13. $^{39}\text{K}(d, ^3\text{He})^{38}\text{Ar}$ and the sd-shell structure of ^{38}Ar
B. H. Wildenthal and E. Newman
Nuclear Physics A118 (1969) 347-360
- J12. 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
- J11. 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
- J10. 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
- J9. The $^{28}\text{Si}(d, ^3\text{He})^{27}\text{Al}$ reaction and the structure of ^{28}Si and ^{27}Al
B. H. Wildenthal and E. Newman
Physical Review 167 (1968) 1027-1034
- J8. 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
- J7. The 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
- J6. 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

- J5. 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
- J4. A 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
- J3. 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
- J2. The $^{10}\text{B}(d,\alpha)^8\text{Be}$ reaction and the 2.94 MeV state in ^8Be
K. H. Purser and B. H. Wildenthal
Nuclear Physics 44 (1963) 22-33
- J1. 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

Full-length Reports in Edited Books and Conference Proceedings:

- B18. Shell structure in the identical-particle, multi-orbit space for $N = 82$ nuclei
B. H. Wildenthal
Understanding the Variety of Nuclear Excitations, ed. by Aldo Covello, World Scientific Publishing Co., Singapore (1990) 35-52
- B17. 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
- B16. Shell model predictions and Gamow-Teller data
B. H. Wildenthal
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
- B15. Limits to realistic shell-model calculations
B. H. Wildenthal
Shell-Model and Nuclear Structure: Where Do We Stand?, ed. by A. Covello, World Scientific Publishing Co., Singapore (1989) 97-106
- B14. Shell-model analyses of weak and electromagnetic data: The interplay of many-body and single-nucleonic features
B. H. Wildenthal
Weak and Electromagnetic Interactions in Nuclei, ed. by H. V. Klapdor, Springer-Verlag (1986) 18-24
- B13. 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
- B12. 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
- B11. 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
- B10. Electromagnetic and Weak Observables in the Context of the 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

- B9. Empirical Strengths of Spin Operators in Nuclei
B. H. Wildenthal
Progress in Particle and Nuclear Physics, Vol.11, Pergammon Press, Oxford, (1984) 5-51
- B8. 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
- B7. Large scale shell-model calculations
J. B. McGrory and B. H. Wildenthal
Annual Review of Nuclear and Particle Science, Vol. 30 (1980) 383-436
- B6. 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
- B5. 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
- B4. Analysis of nuclear spectroscopic data with the shell model
B. H. Wildenthal
NUKLEONIKA Vol. 23 (1978) 459-506
- B3. 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
- B2. 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
- B1. The ${}^3\text{He}({}^3\text{He},2p){}^4\text{He}$ reaction
J. P. Aldridge, III, B. H. Wildenthal, and D. H. Youngblood
Reviews of Modern Physics 37 (1965) 430-429

Invited Talks - 1976 and later (duplicates listing above when proceedings were published):

- T22. Large-scale shell model calculations
4th International Spring Seminar on Nuclear Physics: The Building Blocks of Nuclear Structure, Amalfi, Italy, May 18-22, 1992

- T21. Shell structure in multi-orbit, identical-particle spaces: the $N = 82$ isotones
3rd International Spring Seminar on Nuclear Physics: Understanding the Variety of Nuclear Excitations Ischia, Italy, May 21-25, 1990
- T20. Shell-model calculations for exotic nuclei, II
Nuclear Structure of Light Nuclei Far From Stability - Experiment and Theory
Obernai, France, November 27-24, 1989
- T19. Shell-model predictions and Gamow-Teller Data
XXIII Yamada Conference on Nuclear Weak Processes and Nuclear Structure
Osaka, Japan, June 12-15, 1989
- T18. Shell-model Calculations
2nd International Spring Seminar on Nuclear Physics, Capri, May 16-20, 1988
- T17. Shell-model analyses of weak and electromagnetic data: The interplay of many-body and single-nucleonic features
International Symposium on Weak and Electromagnetic Interactions in Nuclei
Heidelberg, July 1-5, 1986
- T16. Application of a $d_{3/2}$ - $f_{7/2}$ shell model to selected structural features of nuclei in the $A=34-48$ region
1985 Workshop, Indiana University Cyclotron Facility
Bloomington, Indiana, October 21-23, 1985
- T15. Shell-model extrapolations from stable to far-from stable nuclei
Recent Advances in the Study of Nuclei off the Line of Stability, A Symposium of the Division of Nuclear Chemistry and Technology, American Chemical Society
Chicago, Illinois, September 8-13, 1985
- T14. Understanding the strengths of magnetic dipole transitions
Transition Moments in Nuclei - A Symposium in Honor of Dieter Kurath
Argonne, Illinois, June 6-8, 1985
- T13. The common genesis of energy eigenstates in the $1s, 0d$ shell
International Symposium on Nuclear Shell Models,
Drexel University, October 31-November 3, 1984
- T12. Shell model predictions for the broad trends and fine details of electromagnetic matrix elements in nuclei
Fifth International Symposium on Capture Gamma-ray Spectroscopy and Related Topics,
Knoxville, Tennessee, September 10-14, 1984
- T11. Modern Experiments and the 'Neo-Classical Shell Model'
187th National Meeting of the American Chemical Society, St. Louis, Missouri, April 8-13, 1984
- T10. Electromagnetic and Weak Observables in the Context of the Shell Model
International Symposium on Electromagnetic Properties of Atomic Nuclei,
Tokyo, Japan, November 9-12, 1983

- T9. Calculation of all sd-shell Nuclear States from a Single, A-dependent Hamiltonian
Fall meeting of the Division of Nuclear Physics, Notre Dame, Indiana, October 13-15, 1983,
Bulletin of the American Physical Society 28 (1983) 987
- T8. Analysis of Data on Nuclear Spin Excitations
International School of Nuclear Physics, Erice, Sicily, April 6-18, 1983
- T7. A Critique of Nuclear Spectroscopy
Annual Conference of the Institute of Physics on Nuclear Structure and Particle Physics
Oxford, April 6-8, 1981
- T6. M1 and Gamow-Teller Transition Rates in Light Nuclei
Annual Meeting of the American Physical Society, New York, N. Y., January 26-29, 1981
Bulletin of the American Physical Society 26 (1981) 12
- T5. Analysis of Nuclear Spectroscopic Data with the Shell Model
Summer School on Nuclear Physics of the University of Warsaw,
Mikolajki, Poland, September 1-10, 1977
- T4. The Nuclear Shell Model
International Summer School on Nuclear Physics,
Nijenrode, The Netherlands, August 14-28, 1977
- T3. Extraction of the Fundamental Parameters of Nuclear Structure from Nuclear Data via the Shell Model
International Winter School on Nuclear Physics of the
University of Milan, Bormio, Italy, January 15-20, 1977
- T2. Shell-Model Calculations in the sd-shell
Gordon Research Conference on Photonuclear Reactions
Plymouth, New Hampshire, August 9-13, 1976
- T1. Shell-model Calculations in Large Dimensioned Spaces
Varenna Summer School on Nuclear Physics
Varenna, Italy, July 26-August 6, 1976

Books Edited:

- E2. *Relations Between Structure & Reactions in Nuclear Physics*
D. H. Feng, M. Vallieres and B. H. Wildenthal
World Scientific Publishing Co., Singapore (1987)
- E1. *Nuclear Shell Models*
M. Vallieres and B. H. Wildenthal
World Scientific Publishing Co., Singapore (1985)