

JOACHIM JÄNECKE

Publications, Books, Conference Proceedings, and Oral Presentations

Articles in Refereed Journals

1955–1960 (Refereed Journals)

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3. “Die Halbwertszeiten einiger Positronenstrahler mit übererlaubten Übergängen”, J. Jänecke, *Z. Naturforschung* **15a** (1960) 593-600.
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5. “Die Coulomb-Energien leichter Atomkerne”, J. Jänecke, *Z. Physik* **160** (1960) 171-185.

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6. “Übererlaubter Positronenzerfall von K^{38} , Sc^{42} , and Ti^{43} ”, J. Jänecke and H. Jung, *Z. Physik* **165** (1961) 94-98.
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12. “Search for a Super-Allowed β^- -Decay of H^{4+} ”, J. Jänecke, *Z. Physik* **183** (1965) 499-503.

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14. “Vector and Tensor Coulomb Energies”, J. Jänecke, *Phys. Rev.* **147** (1966) 734-742.
15. “Positive Parity Levels in ^{36}S Observed in the $^{37}\text{Cl}(d, ^3\text{He})^{36}\text{S}$ Reaction”, W.S. Gray, T. Wei, J. Jänecke and R. Polichar, *Phys. Lett.* **26B** (1968) 383-385.
16. “Coulomb Displacement Energies in the $(1f_{7/2})$ Shell”, J. Jänecke, *Nucl. Phys.* **A114** (1968) 433-448.
17. “Semidirect T-Forbidden Reaction $^{12}\text{C}(d,\alpha)^{10}\text{B}_{0^+,T=1}$ ”, J. Jänecke, T.F. Yang, R.M. Polichar and W.S. Gray, *Phys. Rev.* **175** (1968) 1301-1308.
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69. “Energy Dependence of the Total Nuclear Reaction Cross Section for Metastable $^{18}\text{F}^m$ ($J^\pi=5^+$, $E_x=1.2$ MeV)”, D.A. Roberts, F.D. Becchetti, J. Jänecke, T. O’Donnell, R.S. Tickle, J.A. Brown, R. Ronningen, H. Wilschut, and R.E. Warner, *International Symposium on Physics of Unstable Nuclei* (Niigata, Japan, November 1994). Invited Presentation D.A. Roberts.

1995 (Conference Proceedings)

70. “Experimental Study of the Microscopic Structure of Spin-Isospin Modes”, M.N. Harakeh, H. Akimune, I. Daito, Y. Fujita, M. Fujiwara, M.B. Greenfield, T. Inomata, J. Jänecke, K. Katori, S. Nakayama, H. Sakai, Y. Sakami, M. Tanaka, and Y. Yosoi, *International Workshop on Physics with Recoil Separators and Detector Arrays*, (New Delhi, India, January 1995). R.K. Bhowmik and A.K. Sinha, editors, (Allied Publishers Limited, New Delhi, 1995) p. 337-345. Invited Presentation M.N. Harakeh.
71. “Microscopic structure of spin-isospin excited states in ^{13}N ”, M. Fujiwara, H. Akimune, I. Daito, Y. Fujita, M. B. Greenfield, T. Inomata, M. N. Harakeh, J. Jänecke, K. Katori, S. Nakayama, A. Tamii, M. Tanaka, H. Toyokawa, and M. Yosoi, *International Workshop on Physics with Recoil Separators and Detector Arrays*, (New Delhi, India, January 1995), eds. R. K. Bhowmik and A. K. Sinha (Allied Publishers Limited, New Delhi, 1995) p. 346-359. Invited Presentation M. Fujiwara.
72. “Evidence for the isoscalar giant dipole resonance in ^{208}Pb using inelastic alpha scattering at and near 0° ”, B. F. Davis, H. Akimune, A. Bacher, G. P. A. Berg, C. C. Foster, M. Fujiwara, U. Garg, M. N. Harakeh, J. Jänecke, J. Lisanti, K. Pham, W. Reviol, D. Roberts, E. J. Stephenson, and Y. Wang, *International Workshop on Physics with Recoil Separators and Detector Arrays*, (New Delhi, India, January 1995), eds. R.K. Bhowmik

and A.K. Sinha (Allied Publishers Limited, New Delhi, 1995) p. 400-409.
Invited Presentation U. Garg.

73. "Nuclear spin-isospin response and weak processes", M. Fujiwara, H. Akimune, I. Daito, H. Ejiri, Y. Fujita, M. B. Greenfield, M.N. Harakeh, R. Hazama, T. Inomata, J. Jänecke, N. Kudomi, K. Kume, S. Nakayama, H. Shinmiyo, Y. Tamii, M. Tanaka, M. Toyokawa, and M. Yosoi, in *IV International Conference on Weak and Electromagnetic Interactions in Nuclei WEIN'95*, (Osaka, Japan, 12-16 June 1995), (World Scientific, Singapore, 1995). Invited Presentation M. Fujiwara.
74. "Evidence for the isoscalar giant dipole resonance in ^{208}Pb using inelastic alpha scattering at and near 0° ", B. F. Davis, H. Akimune, A. Bacher, G. P. A. Berg, C. C. Foster, M. Fujiwara, U. Garg, M. N. Harakeh, J. Jänecke, J. Lisantti, K. Pham, W. Reviol, D. Roberts, E. J. Stephenson, and Y. Wang, in *International Workshop on Physics with Recoil Separators and Detector Arrays*, (New Delhi, India, January 1995). Invited Presentation U. Garg.
75. "Microscopic structure of spin-isospin excited states in ^{13}N ", M. Fujiwara, H. Akimune, I. Daito, Y. Fujita, M. B. Greenfield, T. Inomata, M. N. Harakeh, J. Jänecke, K. Katori, S. Nakayama, A. Tamii, M. Tanaka, H. Toyokawa, and M. Yosoi, in *International Workshop on Physics with Recoil Separators and Detector Arrays*, (New Delhi, India, January 1995). Invited Presentation M. Fujiwara.
76. "Structure of the neutron-halo nucleus ^6He ", J. Jänecke, T. Annakkage, G. P. A. Berg, B. A. Brown, J. A. Brown, G. Crawley, S. Danczik, M. Fujiwara, D. J. Mercer, K. Pham, D. A. Roberts, J. Stasko, J. S. Winfield, and G. H. Yoo, in *Proceedings of the First International Conference on Exotic Nuclei and Atomic Masses ENAM1995* (Arles, France, June 1995), (Editions Frontieres, Gif-sur-Yvette Cedex, France, 1995) p. 301-302. Invited Presentation.
77. Isovector giant resonances in ^6He , ^{12}B , ^{90}Y , ^{120}In , and ^{208}Tl , J. Jänecke, T. Annakkage, G. P. A. Berg, J. A. Brown, G. Crawley, S. Danczig, M. Fujiwara, D. J. Mercer, K. Pham, D. A. Roberts, J. Stasko, J. S. Winfield, and G. H. Yoo, in *Groningen Conference on Giant Resonances* (Groningen, The Netherlands, June 1995). Invited Presentation.
78. Spin-isospin resonances in nuclei, M. Fujiwara, H. Akimune, I. Daito, H. Ejiri, Y. Fujita, M. B. Greenfield, M. N. Harakeh, T. Inomata, J. Jänecke, S. Nakayama, N. Takemura, A. Tamii, M. Tanaka, M. Toyokawa, and M. Yosoi, in *Groningen Conference on Giant Resonances* (Groningen, The Netherlands, June 1995). Invited Presentation M. Fujiwara.
79. Fine structure of Gamow-Teller strength observed in the $(^3\text{He},t)$ reaction and decomposition into isospin components, H. Akimune, I. Daito, Y.

Fujita, M. Fujiwara, M. B. Greenfield, M. N. Harakeh, T. Inomata, J. Jänecke, K. Katori, S. Nakayama, A. Tamii, M. Tanaka, H. Toyokawa, and M. Yosoi, in *Groningen Conference on Giant Resonances* (Groningen, The Netherlands, June 1995). Invited Presentation Y. Fujita.

80. Evidence for the isoscalar giant dipole resonance in ^{208}Pb using inelastic alpha scattering at and near 0° , B. F. Davis, U. Garg, W. Reviol, M. N. Harakeh, A. Bacher, G. P. A. Berg, C. C. Foster, E. J. Stephenson, J. Jänecke, K. Pham, D. Roberts, H. Akimune, M. Fujiwara, and J. Lisantti, in *Groningen Conference on Giant Resonances* (Groningen, The Netherlands, June 1995). Invited Presentation U. Garg,
81. "Isovector giant resonances in nuclei from ($^3\text{He},t$), ($t,^3\text{He}$), and ($^7\text{Li},^7\text{Be}$) charge-exchange reactions", J. Jänecke, in *Meeting of the Nuclear Physics Division of the American Physical Society* (Bloomington, Indiana, October 1995), Bull. Am. Phys. Soc. **40** (1995) 1631. Invited Presentation.

1996 (Conference Proceedings)

82. "Isovector giant resonances in nuclei from ($^3\text{He},t$), ($t,^3\text{He}$), and ($^7\text{Li},^7\text{Be}$) charge-exchange reactions", J. Jänecke, in *XIV International Symposium on Nuclear Reaction Dynamics of the Nucleon-Hadron Many-Body System – RCNP Winter School* (Osaka, Japan, December 1995), Editors H. Ejiri, T. Noro, K. Takahisa, and H. Toki (World Scientific, Singapore, 1996), pp. 155-168. Invited Lecture.

1998 (Conference Proceedings)

83. "Charge-exchange reactions with a radioactive triton beam", J. Jänecke, in *Proceedings of the Second International Conference on Exotic Nuclei and Atomic Masses ENAM1998* (Bellaire, Michigan, USA, June 1998), eds. B. Sherrill, D. Morrissey, and C. Davids, (American Institute of Physics (AIP) Conference Proceedings **455**) p. 773-776.
84. "What can we learn from particle- and gamma-decay of charge-exchange giant resonances?" M.N. Harakeh, H. Akimune, Y. Arimoto, *et al.*, in *International Symposium on New Facet of Spin Giant Resonances in Nuclei* (University of Tokyo, Japan, November 1997), eds. H. Sakai, H. Okamura, T. Wakasa (Tokyo, 1998) p. 247-263; 17 pages. Invited Presentation M.N.Harakeh.
85. "Proton decays from spin-isospin excitations via the ($^3\text{He},t$) reactions at 450 MeV", H. Akimune, U. Daito, H. Fujimura, *et al.*, in *International Symposium on New Facet of Spin Giant Resonances in Nuclei*, (University of Tokyo, Japan, November 1997), eds. H. Sakai, H. Okamura, T. Wakasa (Tokyo, 1998) p. 274-279; 6 pages. Invited Presentation H.Akimune.

86. "The (t,³He) measurement at intermediate energy at NSCL", I.Daito, H.Akimune, S.M.Austin *et al.*, in *International Symposium on New Facet of Spin Giant Resonances in Nuclei*, (University of Tokyo, Japan, November 1997), eds. H. Sakai, H. Okamura, T. Wakasa (Tokyo, 1998) p. 253-255; 3 pages. Invited Presentation I.Daito.
87. "Microscopic structure of spin-isospin excited states in ¹³N", H.Fujimura, H.Akimune, A.M.van den Berg, *et al.*, in *International Symposium on New Facet of Spin Giant Resonances in Nuclei*, (University of Tokyo, Japan, November 1997), eds. H. Sakai, H. Okamura, T. Wakasa (Tokyo, 1998) p. 256-258; 3 pages. Invited Presentation A.M. van den Berg.

2000 (Conference Proceedings)

88. "Excitation and decay of spin-isospin modes in charge-exchange reactions", M. Fujiwara, H. Akimune, I. Daito, in *et al.*, *International Symposium on Quasiparticle and Phonon Excitations in Nuclei, in Memory of Professor Vadim Soloviev (1925-1998)*, (Wako, Japan, December 1999), eds. N.D. Dang, A. Arima, (Riken 2000) 78-85; 8 pages, Invited Presentation M. Fujiwara.
89. "Study of isospin structure of A=58 nuclei by comparison of ⁵⁸Ni(p,p') and ⁵⁸Ni(³He,t) reaction", H. Fujita, Y. Fujita, A. Bacher, G.P.A. Berg, T. Black, C.C. Foster, K. Hara, K. Harada, K. Hatanaka, J. Jänecke, K. Katori, T. Noro, Y. Shimbara, T. Shinada, E.J. Stephenson, H. Ueno and M. Yosoi, in *Proceedings International Workshop Pingst2000*, (Lund, Sweden, June 2000), eds. D. Rudolph and M. Hellström (Bloms i Lund, 2000) p. 176; 5 pages. Invited Presentation Y. Fujita.

2001 (Conference Proceedings)

90. "Study of isospin structure of 1⁺ spin states in ⁵⁸Ni and ⁵⁸Cu by the comparison of ⁵⁸Ni(p,p') and ⁵⁸Ni(³He,t)⁵⁸Cu reactions", H. Fujita, Y. Fujita, G.P.A. Berg, *et al.*, in *14th International Spin Physics Symposium* (Osaka University, Japan, October 2000), eds. K. Hatanaka, T. Nakano, K. Imai, *et al.* (American Institute of Physics (AIP) Conference Proceedings **570** 2001) 614-618.
91. "Collective and single-particle states at high excitation energy", A.M. van den Berg, H. Akimune. I. Daito, H. Fujimura, M. Fujiwara, Y. Fujita, M.N. Harakeh, F. Ihara, T. Inomata, K. Ishibashi, J. Jänecke, N. Kalantar-Nayestanaki, H. Laurent, I. Lhenry, H.K.T. van der Molen, T. O'Donnell, V.A. Rodin, A. Tamii, H. Toyokawa, M.H. Urin, H. Yoshida, and M. Yosoi, *International Symposium on Exotic Nuclear Structures* (Debrecen, Hungary, May 2000), (Acta Physica Hungarica, New Series **13** 2001) 21-30.

2002 (Conference Proceedings)

92. "Symmetry energies, pairing energies, and binding energies of atomic nuclei", J. Jänecke, T.W. O'Donnell, and V.I. Goldanskii, in *Proceedings of the Third International Conference on Exotic Nuclei and Atomic Masses ENAM2001*, (Hämeenlinna, Finland, July 2001), eds J. Ästö, P. Dendooven, A. Jokinen, and M. Leino, (Euro. Phys. J. **A15** - Hadrons and Nuclei, 2002) p. 43.

2005 (Conference Proceedings)

93. "Symmetry energies and the curvature of the nuclear mass surface", J. Jänecke and T.W. O'Donnell, in *Proceedings of the Fourth International Conference on Exotic Nuclei and Atomic Masses ENAM2004* (Callaway Gardens, Pine Mountain, Georgia, USA, September 2004), eds C.J. Gross, W. Nazarewicz, and K.P. Rykaszewski, (Euro. Phys. J. A - Hadrons and Nuclei, **A25** Suppl.1, 2005) 79-80.

Invited Presentations, Lectures and Some Seminars

1966–1970 (Invited Presentations, Lectures, Seminars)

Coulomb Energy Systematics, *Conference on Isobaric Spin in Nuclear Physics* (Tallahassee, Florida, 1966). Invited Presentation,

Systematics of Coulomb Energies and Excitation Energies of Isobaric Analogue States, *Third International Conference on Atomic Masses AMCO3* (Winnipeg, Canada, 1967). Invited Presentation.

A Phenomenological Coulomb Energy Equation, *Symposium on Coulomb Energies in Nuclei* (University of North Carolina at Chapel Hill, May 1970). Invited Presentation.

Coulomb Displacement Energies, *Summer Seminar in Nuclear Theory* (Queen's University, Kingston, Ontario, August 1970). Invited Presentation.

1971–1980 (Invited Presentations, Lectures, Seminars)

Coulomb Energies and Nuclear Shapes, *Fourth International Conference on Atomic Masses and Fundamental Constants AMCO4* (Teddington, England, 1971). Invited Presentation.

Coulomb Energies of Deformed Nuclei, *Workshop on Coulomb Energies* (Princeton University, 1972). Invited Presentation.

Nuclidic Mass Relationships and Mass Equations, *Fifth International Conference on Atomic Masses and Fundamental Constants AMCO5* (Paris, 1975). Invited Presentation.

Alpha-Clustering in Nuclei, April/May 1980, Seminars.

Kernfysisch Versneller Instituut (Groningen, The Netherlands)
University of Birmingham (England)
University of Manchester (England)
Daresbury National Accelerator Laboratory (England)
Oxford University (England)
Max-Planck-Institut (Heidelberg, Germany)
Universität Siegen (Germany)

Masses from Inhomogeneous Partial Difference Equations, *Sixth International Conference on Atomic Masses and Fundamental Constants AMCO6* (East Lansing, Michigan, 1980). Invited Presentation.

1981–1990 (Invited Presentations, Lectures, Seminars)

Aspects of Alpha-Particle Pickup Reactions, *Workshop on Nuclear Physics* (Trieste, Italy, October 1981). Invited Lecture.

Properties of Isobaric Analog States and the Isovector Monopole Resonance, Seminars.

Los Alamos Scientific Laboratory, July 1982

University of Pittsburgh, January 1983

New Aspects of Nuclear Binding Energies and Masses (Michigan State University, April 1984). Seminar.

Properties of Mass Equations Based on Mass Relations and Connections with Other Mass Models, *Seventh International Conference on Atomic Masses and Fundamental Constants AMCO7* (Darmstadt-Seeheim, Germany, September 1984). Invited Presentation.

Properties of Mass Equations, *Workshop on Mass Equations* (Technische Hochschule Darmstadt, September 1984). Invited Presentation.

Spreading Widths of Isobaric Analog States and the Isovector Monopole Resonance (Tel Aviv University, January 1987). Seminar.

Heavy-Ion Induced Production of High-Energy Light Ions (K.V.I. Groningen, The Netherlands, February 1988). Seminar.

($^3\text{He,t}$) Charge-Exchange Reactions, Isobaric Analog States, and the Isovector Monopole Resonance (Germany, Netherlands, France, March/April/May/June 1988). Seminars (in English and German).

Universität Oldenburg, Germany, March 18, 1988

Hahn-Meitner Institut, Berlin, Germany, April 25, 1988

Kernfysisch Versneller Instituut, Groningen, The Netherlands, May 10, 1988

Universität Mainz, Germany, June 13, 1988.

Kernforschungszentrum Karlsruhe, Germany, June 16, 1988

Centre de Recherches Nucléaires de Strasbourg, France, June 17, 1988

Theoretische Kernmodelle und Massen Gleichungen (Universität Braunschweig, Germany, June 1988). Colloquium.

Selectivity in ($^3\text{He,t}$) Charge Exchange at $\theta = 0^\circ$ and 200 MeV, *Symposium in Honor of Akito Arima: Nuclear Physics in the 1990's* (Santa Fe, New Mexico, May 1990). Invited Presentation.

1991 (Invited Presentations, Lectures, Seminars)

Observation of Giant Resonances and Isobaric Analog States and Their Neutron Decays in Spinflip and Non-Spinflip Charge Exchange at 200 MeV, *Workshop on*

Giant Resonances and Related Phenomena (University of Notre Dame, October 1991). Invited Presentation.

1992 (Invited Presentations, Lectures, Seminars)

Fermi and Gamow-Teller Transitions in $^{12-14}\text{C}(^3\text{He,t})^{12-14}\text{N}$ Charge Exchange and the Splitting and Fragmentation of Gamow-Teller Strength in $^{112-124}\text{Sn}(^3\text{He,t})^{112-124}\text{Sb}$, *International Conference on Nuclear Structure and Nuclear Reactions at Low and Intermediate Energies* (Joint Institute for Nuclear Research, Dubna, Russia, September 1992). Invited Presentation.

1993 (Invited Presentations, Lectures, Seminars)

Charge-exchange reactions and properties of giant Gamow-Teller resonances (Japan, May/June/July 1993), Seminars.

Research Center for Nuclear Physics, Osaka University, May 20, 1993

Kyoto University, May 26, 1993

Riken, Accelerator Research Facility, Institute for Physical and
Chemical Research, Tokyo, July 2, 1993

Institute for Nuclear Study, University of Tokyo, July 3, 1993

Niigata University, July 6, 1993

Microscopic Structure of the Gamow-Teller Resonance in ^{208}Bi , *Gull Lake Nuclear Physics Conference on Giant Resonances* (Gull Lake, Michigan, August 1993). Invited Presentation.

1994 (Invited Presentations, Lectures, Seminars)

Charge-Exchange Reactions and Giant Resonances (Kernfysisch Versneller Instituut, Groningen, The Netherlands, June 1994). Seminar.

Fragmentation and Splitting of Gamow-Teller Resonances in $\text{Sn}(^3\text{He,t})\text{Sb}$, *International Conference on Selected Problems in Nuclear Structure* (Joint Institute for Nuclear Research, Dubna, Russia, July 1994). Invited Presentation.

Giant Resonances in Proton-Rich Nuclei from the ($^7\text{Li},^7\text{Be}$) Charge-Exchange Reaction (Research Center for Nuclear Physics, Osaka University, Japan, October 1994). Seminar.

Gamow-Teller Strength from ($^3\text{He,t}$) Charge Exchange at High Energies (National Superconducting Cyclotron Laboratory, Michigan State University, November 1994). Seminar.

1995 (Invited Presentations, Lectures, Seminars)

Collective Phenomena in Atomic Nuclei (University of Michigan at Dearborn, January 1995). Seminar.

Structure of the neutron-halo nucleus ${}^6\text{He}$, *Proceedings of the First International Conference on Exotic Nuclei and Atomic Masses ENAM1995* (Arles, France, June 1995). Invited Presentation.

Isovector giant resonances in nuclei from (${}^3\text{He},t$), ($t,{}^3\text{He}$), and (${}^7\text{Li},{}^7\text{Be}$) charge-exchange reactions, *Meeting of the Nuclear Physics Division of the American Physical Society* (Bloomington, Indiana, October 1995). Invited Presentation.

Isovector giant resonances in nuclei from (${}^3\text{He},t$), ($t,{}^3\text{He}$), and (${}^7\text{Li},{}^7\text{Be}$) charge-exchange reactions, *XIV International Symposium on Nuclear Reaction Dynamics of the Nucleon-Hadron Many-Body System* (Winter School, Osaka University, Japan, December 1995). Invited Lecture.

1998 (Invited Presentations, Lectures, Seminars)

(p,n)-like and (n,p)-like charge-exchange reactions. Seminars.

Niigata University, March 27, 1998

Research Center for Nuclear Physics, Osaka University, April 30, 1998

1999 (Invited Presentations, Lectures, Seminars)

Charge-exchange experiments with a radioactive triton beam, *NSCL Workshop on Direct Reactions with Radioactive Beams* (National Superconducting Cyclotron Facility, Michigan State University, East Lansing, Michigan, July 1999). Invited Presentation.

2000 (Invited Presentations, Lectures, Seminars)

Direct and statistical proton decay from isovector giant resonances in ${}^{90}\text{Nb}$, *International Conference on Giant Resonances 2000* (Research Center for Nuclear Physics, Osaka, Japan, June 2000). Invited Presentation.

2006 (Invited Presentations, Lectures, Seminars)

Isobaric analog states, symmetry energies, nuclear masses and astrophysics (Notre Dame University, May 2006). Seminar.

<http://www.lsa.umich.edu/physics/> (people - emeritus)