

Full list of Publications

Hans Joachim Specht

Original work in refereed journals and as conference papers if not available otherwise

1. Szintillationsspektrometer für Elektronen mit reduzierter γ -Empfindlichkeit
P. Armbruster und H.J. Specht
Nukleonik 4 (1962) 283-288
2. Determination of the Mean Primary Charge of ^{235}U Fission Products
P. Armbruster, D. Hovestadt, H. Meister and H.J. Specht
Nucl. Phys. 54 (1964) 586-614
3. Die Untersuchung fast-adiabatischer Stöße mit Spaltprodukten
P. Armbruster, E. Röckl, H.J. Specht und A. Vollmer
Z. Naturforsch. 19a (1964) 1301-1304
4. Messung der Gasverstärkung in Methan bei niedrigen Drucken mit einem
Transmissions-Proportional-Zählrohr für Spaltprodukte
H.J. Specht und P. Armbruster
Nukleonik 7 (1965) 8-14
5. Ionisation innerer Elektronenschalen bei fast-adiabatischen Stößen schwerer Ionen
H.J. Specht
Z. Phys. 185 (1965) 301-330
6. Recent Experiments on the Beta-Activity of Fission Products from the Thermal
Neutron Fission of ^{233}U , ^{235}U and ^{239}Pu
H.J. Specht and H. Seyfarth
Physics and Chemistry of Fission, IAEA, Vienna (1965) II, 253-262
7. Prompt and Delayed Gamma Rays from Fission
H. Maier-Leibnitz, P. Armbruster and H.J. Specht
Physics and Chemistry of Fission, IAEA, Vienna (1965) II, 113-123
8. Anisotropy and Kinetic Energy in the Reactions ^{235}U (d,pf) and ^{239}Pu (d,pf)
H.J. Specht, J.S. Fraser and J.C.D. Milton
Int. Nucl. Phys. Conf., Gatlinburg (1966) 737-741
9. Fission-Fragment Angular Anisotropy in the Reactions ^{235}U (d,pf) and ^{239}Pu
(d,pf)
H.J. Specht, J.S. Fraser and J.C.D. Milton
Phys. Rev. Lett. 17 (1966) 1187-1190
10. A High Resolution Study of the ^{239}Pu (d,pf) Reaction
H.J. Specht, J.S. Fraser, J.C.D. Milton and W.G. Davies
Physics and Chemistry of Fission, IAEA, Vienna (1969) 363-373

11. A Spark Chamber System for Magnetic Spectrographs
H.J. Specht
Berichte der Kernforschungsanlage Jülich, Jül-Conf-4 (1970) 71-120
12. Fission Fragment Mass and Kinetic Energy Distribution in the ^{239}Pu (d,pf) Reaction
J.C.D. Milton, J.S. Fraser and H.J. Specht
J. Physique 33 C5 (1972) 17
13. Search for Conversion Electrons Populating the ^{236}U Fission Isomer
E. Konecny, H.J. Specht, J. Weber, H. Weigmann, R.L. Ferguson, P. Osterman M. Waldschmidt and G. Siegert
Nucl.Phys. A187 (1972) 426-432
14. Identification of a Rotational Band in the ^{240}Pu Fission Isomer
H.J. Specht, J. Weber, E. Konecny and D. Heunemann
Phys. Lett. 41B (1972) 43-46
15. Symmetric and Asymmetric Fission of Ac Isotopes near the Fission Threshold
E. Konecny, H.J. Specht and J. Weber
Phys. Lett. 45B (1973) 329-331
16. The Shape of the Fission Barrier
H.J. Specht
in "Nuclear Structure Physics", Lecture Notes in Physics 23 (1973) 105-128,
Springer, Heidelberg
17. Fragment Anisotropy in Isomeric Fission
H.J. Specht, E. Konecny, J. Weber und C. Kozhuharov
Physics and Chemistry of Fission, IAEA, Vienna (1974) I, 285-296
18. Symmetric and Asymmetric Fission of Ra- and Ac-Isotopes
E. Konecny, H.J. Specht and J. Weber
Physics and Chemistry of Fission, IAEA, Vienna (1974) II, 3-18
19. Nuclear Fission
H.J. Specht
Rev. Mod. Phys. 46 (1974) 773-787
20. Experimental Observables and the Fission Barrier
H.J. Specht
Physica Scripta 10A (1974) 21-29
21. Fragment Mass and Kinetic Energy Distribution in Isomeric Fission of ^{240}Pu
J. Weber, H.J. Specht, E. Konecny and D. Heunemann
Nucl. Phys. A221 (1974) 414-420
22. The Shape of the Fission Barrier
H.J. Specht
Nukleonika 20 (1975) 717-753

23. Intermediate Structure in the ^{239}Pu (d,pf) Reaction
P. Glässel, H. Rösler and H.J. Specht
Nucl. Phys. A256 (1976) 220-242
24. Hyperfine Interactions and Charge Distributions of Actinide Ions Recoiling into Vacuum
V. Metag, D. Habs, H.J. Specht, G. Ulfert and C. Kozhuharov
Hyperfine Interactions I (1976) 405-418
25. Impact-Parameter Dependence of Noncharacteristic Radiation Emitted in 35-MeV Cl-Cl Collisions
I. Tserruya, H. Schmidt-Böcking, R. Schulé, K. Bethge, R. Schuch and H.J. Specht
Phys. Rev. Lett. 36 (1976) 1451-1454
26. The Quadrupole Moment of the 8 μs Fission Isomer in ^{239}Pu
D. Habs, V. Metag, H.J. Specht and G. Ulfert
Phys. Rev. Lett. 38 (1977) 387-389
27. Fission of ^{238}U Induced by ^{136}Xe for Energies Close to the Coulomb Barrier
D. Habs, V. Metag, J. Schukraft, H.J. Specht, C.O. Wene and K.D. Hildenbrand
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28. Reaction between ^{238}U and ^{238}U at 7.42 MeV/Nucleon
K.D. Hildenbrand, H. Freiesleben, F. Pühlhofer, W.F.W. Schneider, R. Bock, D. v. Harrach and H.J. Specht
Phys. Rev. Lett. 39 (1977) 1065-1068
29. A Position-Sensitive Multiwire Proportional Chamber for Fission Fragments with Large Solid Angle
P. Glässel, H. Rösler, R. Männer and H.J. Specht
Nucl. Instr. Meth. 141 (1977) 111-114
30. A Position-Sensitive Parallel Plate Avalanche Detector for Heavy-Ion X-Ray Coincidence Measurements
G. Gaukler, H. Schmidt-Böcking, R. Schuch, R. Schulé, H.J. Specht and I. Tserruya
Nucl. Instr. Meth. 141 (1977) 115-118
31. Fission and Quasi-Fission
H.J. Specht
in "Nuclear Structure Physics", Eds. S.J. Hall and J.M. Irvine, SUSSP Publications, Edinburgh (1978), 519-556
32. Determination of the Fission Barrier in ^{232}Pu from β -delayed Fission and the Problem of the First Barrier
D. Habs, H. Klewe-Nebenius, V. Metag, B. Neumann and H.J. Specht
Z. Phys. A285 (1978) 53-57
33. Resonances in the Isomeric and Prompt Fission Probabilities of ^{240}Pu
U. Görlach, D. Habs, M. Just, V. Metag, P. Paul and H.J. Specht
Z. Phys. A287 (1978) 171-181

34. Experimental Determination of the Production Mechanism for Noncharacteristic Radiation in Swift Heavy-Ion Collisions
H. Schmidt-Böcking, R. Schuch, I. Tserruya, R. Schulé, H.J. Specht and K. Bethge
Z. Phys. A284 (1978) 39-42
35. A Position Sensitive Parallel Plate Avalanche Detector (PPAD) for Fission Fragments
M. Just, D. Habs, V. Metag and H.J. Specht
Nucl. Instr. Meth. 148 (1978) 283-289
36. Lifetime Measurements of Nuclear Levels with the Charge Plunger Technique
G. Ulfert, D. Habs, V. Metag and H.J. Specht
Nucl. Instr. Meth. 148 (1978) 369-379
37. Fission Phenomena in Deep Inelastic Collisions
H.J. Specht
in "Nuclear Interactions", Lecture Notes in Physics 92 (1978) 1-15, Springer, Heidelberg
38. Spectroscopy in the Second Minimum of the Potential Energy Surface of ^{239}Pu
H. Backe, L. Richter, D. Habs, V. Metag, J. Pedersen, P. Singer and H.J. Specht
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39. Quadrupole Moment of the 200-ns Fission Isomer in ^{238}U
G. Ulfert, V. Metag, D. Habs and H.J. Specht
Phys. Rev. Lett. 42 (1979) 1596-1599
40. Angular Momentum Transfer in Deeply Inelastic Collisions from Exclusive Sequential- Fission Experiments
D. v.Harrach, P. Glässel, Y. Civelekoglu, R. Männer and H.J. Specht
Phys. Rev. Lett. 42 (1979) 1728-1732
41. Direct Observation of Coulomb Fission of ^{238}U with ^{184}W Projectiles
H. Backe, F. Weik, P.A. Butler, V. Metag, J.B. Wilhelmy, D. Habs, G. Himmele and H.J. Specht
Phys. Rev. Lett. 43 (1979) 1077-1080
42. The Reaction $^{238}\text{U}+^{238}\text{U}$ at 7.42 MeV/u
H. Freiesleben, K.D. Hildenbrand, F. Pühlhofer, W.F.W. Schneider, R. Bock, D. v. Harrach and H.J. Specht
Z. Phys. A292 (1979) 171-189
43. Three-Particle Exclusive Measurements of the Reactions $^{238}\text{U}+^{238}\text{U}$ and $^{238}\text{U}+^{248}\text{Cm}$
P. Glässel, D. v.Harrach, Y. Civelekoglu, R. Männer, H.J. Specht, J.B. Wilhelmy, H. Freiesleben and K.D. Hildenbrand
Phys. Rev. Lett. 43 (1979) 1483-1486
44. A Square Meter Position Sensitive Parallel Plate Detector for Heavy Ions
D. v. Harrach and H.J. Specht
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45. Combined Analysis of the Prompt Fission, Delayed Fission, Photofission, and Angular Distribution Data from 234 , ^{236}U and 238 , ^{240}Pu
M. Just, U. Görlach, D. Habs, V. Metag and H.J. Specht
Physics and Chemistry of Fission 1979, IAEA, Wien (1980) I, 71-86
46. Fission Properties of Very Heavy Nuclei Produced in Deep Inelastic Collisions
D. v. Harrach, P. Glässel, Y. Civelekoglu, R. Männer, H.J. Specht and J. B. Wilhelmi
Physics and Chemistry of Fission 1979, IAEA, Wien (1980) I, 575-586
47. Summary of the Symposium
H.J. Specht
Physics and Chemistry of Fission 1979, IAEA, Wien (1980) II, 459-476
48. Fission Phenomena in Deep Inelastic Collisions
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In Continuum Spectra in Heavy Ion Reactions (San Antonio 1979), Harwood, Chur (1980), 341-365
49. K-Shell Excitation Probabilities in 32 MeV S on Ar Collisions
G. Nolte, J. Volpp, R. Schuch, H.J. Specht, W. Lichtenberg and H. Schmidt-Böcking
J. Phys. B: Atom. Molec. Phys. 13 (1980) 4599-4606
50. Spectroscopic Properties of Fission Isomers
V. Metag, D. Habs and H.J. Specht
Physics Reports 65 (1980) 1-41
51. Fission Phenomena in Deep Inelastic Collisions
H.J. Specht
in Nuclear Structure and Heavy Ion Collisions (Int. School of Physics "Enrico Fermi", LXXVII Corso, Varenna 1979), Soc. It. Fis., Bologna (1981) 150-184
52. Future Experiments (Summary)
H.J. Specht
in Proc. Workshop on Future Relativistic Heavy Ion Experiments (Darmstadt 1980), GSI 81-6, Darmstadt (1981), 551-558
53. Reaktionen zwischen schweren Atomkernen - gegenwärtige und künftige Entwicklungen
H.J. Specht
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54. Three and Four Body Decay in Heavy Ion Collisions
H.J. Specht
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55. Inner Shell Excitation Investigated by Particle-Photon Coincidences
H. Schmidt-Böcking, W. Schadt, K.E. Stiebing, K. Bethge, R. Schuch, G. Nolte, G. Gaukler and H.J. Specht
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56. Direct Observation of Proximity Effects in Ternary Heavy Ion Reactions
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57. Direct Observation of Non-Equilibrium Effects in Sequential Fission
P. Glässel, D. v.Harrach, L. Grodzins and H.J. Specht
Phys. Rev. Lett. 48 (1982) 1089-1093
58. Lowest β -Vibrational Phonon in the Second Minima of ^{236}U , ^{238}U
U. Görlach, D. Habs, V. Metag, B. Schwartz, H.J. Specht and H. Backe
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59. Experimental Features of Coulomb Fission
G. Himmele, H. Backe, P.A. Butler, D. Habs, V. Metag, J.B. Wilhelmy and H.J. Specht
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60. Inclusive Measurements and Particle Identification
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61. Observation of Proximity- and Non-Equilibrium Effects in Ternary Heavy Ion
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P. Glässel, D. v.Harrach, H.J. Specht and L. Grodzins
Z. Phys. A310 (1983) 189-21
62. Measurements of Nuclear Reaction Cross Sections for ^{183}W , ^{184}W + ^{238}U near the
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G. Himmele, H. Backe, P.A. Butler, D. Habs, V. Metag, H.J. Specht and J.B.
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63. Nucleus-Nucleus Collisions: Observations and Expectations
H.J. Specht
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64. First Results on γ -Ray Spectroscopy in the Second Minima of ^{238}U and ^{240}Pu
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Physica Scripta T5 (1983) 183-185
65. Systematic Study of Impact Parameter Dependent K-Vacancy Probabilities in Near
Symmetric Gas and Solid Target Collision Systems
R. Schuch, R. Hoffmann, K. Müller, E. Pflanz, H. Schmidt-Böcking and H.J. Specht
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66. Properties of Jets in High- E_T Events produced in pp Collisions at $\sqrt{s} = 63$ GeV
 The Axial Field Spectrometer Collaboration: T. Åkesson et al, M.G. Albrow, S. Almehed, R. Batley, O. Benary, H. Bøggild, O. Botner, H. Breuker, H. Brody, V. Burkert, B. Callen, R. Carosi, A.A. Carter, J.R. Carter, P. Cecil, Y. Choi, W.E. Cleland, D. Cockerill, S. Dagan, E. Dahl-Jensen, P. Dam, G. Damgaard, S. Eidelman, W.M. Evans, C.W. Fabjan, P. Frandsen, S. Frankel, W. Frati, M. Gibson, U. Görlach, H. Gordon, K.H. Hansen, V. Hedberg, J. Hiddleston, H.J. Hillke, J. Hooper, G. Jarlskog, P. Jeffreys, T. Jensen, A. Kalinovsky, G. Kessler, T. Killian, R. Kröger, K. Kulka, J.v.d. Lans, J. Lindsay, D. Lissauer, B. Lörstad, T. Ludlam, A. Markou, N.A. McCubbin, U. Mjörnmark, R. Møller, W. Molzon, B.S. Nielsen, A. Nilsson, L.H. Olsen, Y. Oren, L. Rosset, E. Rosso, A. Rudge, R. Schindler, J. Schukraft, H.J. Specht, I. Stumer, M. Sullivan, J. Thompson, G. Thorstenson, E. Vella, J. Williamson, W.J. Willis, M. Winik, W. Witzeling, C. Woody, W.A. Zajc
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67. Direct Photon and Lepton Production in High Energy Collisions
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68. Production of Prompt Positrons at low p_T in 63 GeV pp Collisions at the ISR
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74. A Study of the Production of Two Direct Photons in pp Collisions at the CERN ISR
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75. Inclusive η Production at Low Transverse Momentum in 63 GeV pp Collisions at
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78. Direct-Photon Plus Away-Side Jet Production in pp Collisions at $\sqrt{s} = 63$ GeV and
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79. Double Parton Scattering in pp Collisions at $\sqrt{s} = 63$ GeV
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80. Nuclear Collisions at Very High Energies
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81. The Production of Prompt Positrons at Low Transverse Momentum increases with
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84. The Transverse Energy Distribution in ^{16}O -Nucleus Collisions at 60 and 200 GeV per Nucleon
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88. A Ring-Imaging Cherenkov Counter with Low-Pressure Two-Step UV-Detector
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