65Wa01 \(Li^7, \ C^{12}, \ and \ O^{16}(t,\alpha)\) Angular Distributions


**Nuclear Structure:** \(^{16}O, \ ^{12}C, \ ^{7}Li\); measured not abstracted; deduced nuclear properties.
65Wa02 Polarization of Neutrons from the $^{13}(p,n)N^{13}$ and $^{15}(p,n)O^{15}$ Reactions


*Nuclear Structure*: $^{15}$N; measured not abstracted; deduced nuclear properties.
65Wa03  Gamma-Ray Transitions from the 5-MeV Doublet Levels in \(^{15}\text{N}\) and \(^{15}\text{O}\)


**Nuclear Structure:** \(^{15}\text{O}\), \(^{15}\text{N}\), \(^{15}\text{C}\), \(^{13}\text{C}\); measured not abstracted; deduced nuclear properties.
Angular Distribution and Polarization of Neutrons from the \( \text{Be}^9(p,n)\text{B}^9 \) and \( \text{B}^{11}(p,n)\text{C}^{11} \) Reactions


**Nuclear Structure**: \( ^9\text{Be}, ^{11}\text{B} \); measured not abstracted; deduced nuclear properties.
65Wa05 Decay Scheme of $^{131}$Te


*Nuclear Structure:* $^{131}$Te; measured not abstracted; deduced nuclear properties.
Angular-Correlation Studies for the $^{12}\text{C}(\text{He}^{3},\alpha\gamma)^{11}\text{C}$, $^{12}\text{C}(\text{He}^{3},p\gamma)^{14}\text{N}$, and $^{18}\text{O}(p,\alpha\gamma)^{15}\text{N}$ Reactions


**Nuclear Structure:** $^{18}\text{O}, ^{12}\text{C}$; measured not abstracted; deduced nuclear properties.
65Wa07 Nuclear Structure and Parity Impurities


*Nuclear Structure:* $^{181}$Ta, $^{175}$Lu, $^{57}$Fe; measured not abstracted; deduced nuclear properties.
Direct Reaction Analysis of the $^{19}(p,\alpha)O^{16}$ Reaction


**Nuclear Structure**: $^{19}$F; measured not abstracted; deduced nuclear properties.
65Wa09 *The Branching Ratio of $^{212}$Bi(ThC)*


*Nuclear Structure: $^{212}$Bi; measured not abstracted; deduced nuclear properties.*
65Wa10 *Inelastic Scattering and Neutron Pickup for $^{12}$C and $^{16}$O Projectiles on $^{208}$Pb*


*Nuclear Structure:* $^{207}$Pb, $^{208}$Pb; measured not abstracted; deduced nuclear properties.
65Wa11 Decay Scheme of 25-Minute Te$^{131}$


*Nuclear Structure:* $^{131}$Te; measured not abstracted; deduced nuclear properties.
65Wa12 A New Excited State of $^8$Li


*Nuclear Structure*: $^9$Be, $^8$Li; measured not abstracted; deduced nuclear properties.
65Wa13 Anwendung der Koinzidenzmethode Zur Bestimmung von Totalen Konversionskoeffizienten


Nuclear Structure: $^{198}$Au, $^{203}$Hg, $^{129}$I, $^{141}$Ce, $^{139}$I; measured not abstracted; deduced nuclear properties.
65Wa14 \((n,d)\) Reaction Studies on \(\text{Ni}^{58}\), \(\text{Cu}^{63}\), and \(\text{Zn}^{64}\)


**Nuclear Structure:** \(\text{Co}^{57}\), \(\text{Cu}^{63}\), \(\text{Ni}^{62}\); measured not abstracted; deduced nuclear properties.
65Wa15 Search for Direct Neutron Capture in Manganese


**Nuclear Reactions:** $^{55}\text{Mn}(n,\gamma)$, $E = 5-4000$ ev; measured $I_\gamma(E)$ for high, low $E_\gamma$; deduced interference between capture, resonance.
Studies of Electromagnetic Transitions in $N^{15}$ and $O^{15}$


Nuclear Structure: $^{13}$C, $^{15}$O, $^{15}$N, $^{16}$O, $^{14}$C, $^{14}$N; measured not abstracted; deduced nuclear properties.
65Wa17 Location of the p-Shell Hole States in Mass 15 Nuclei


*Nuclear Structure:* $^{16}$O, $^{15}$O; measured not abstracted; deduced nuclear properties.
65Wa18 $^{235}\text{U}$ Fission Cross Section for Resonance Neutrons


**Nuclear Structure:** $^{236}\text{U}$; measured not abstracted; deduced nuclear properties.
65Wa19 γ-n Reactions in $^7$Li


*Nuclear Structure*: $^7$Li; measured not abstracted; deduced nuclear properties.
65Wa20


*Nuclear Structure:* $^{213}$Bi; measured not abstracted; deduced nuclear properties.
65Wa21 *Thermal and Resonance Neutron Capture in Copper, Nickel, and Manganese*


*Nuclear Structure*: $^{64}$Cu; measured not abstracted; deduced nuclear properties.
Small-Angle Elastic Scattering of Fast Neutrons and the Electric Polarizability of the Neutron


**Nuclear Reactions:** U(n,n), E=0.57 MeV; measured \( \sigma(\theta) \); deduced neutron electric polarizability.
65Wa27 Two-Proton and Two-Neutron Binding-Energy Systematics and Alpha-Decay Energies

65We01 $\gamma$-Rays from Neutron Capture in Gold


**Nuclear Structure**: $^{198}$Au; measured not abstracted; deduced nuclear properties.
65We02 *Polarization of Silver Nuclei in Metallic Iron and Nickel*


*Nuclear Structure:* $^{104}$Ag, $^{110}$Ag; measured not abstracted; deduced nuclear properties.
65We03 The Energy Levels of Co\textsuperscript{56}


\textit{Nuclear Structure}: \textsuperscript{56}Co; measured not abstracted; deduced nuclear properties.
65We04 Rapid Separation of Indium from Tin by Sublimation. Formation of $^{121}\text{In}$ in Fission of $^{235}\text{U}$


**Nuclear Structure:** $^{121}\text{In}$; measured not abstracted; deduced nuclear properties.
65We05 Energy Levels of $^{31}$S and $^{19}$Ne


**Nuclear Reactions:** $^{31}$P(p,\(n\)), $^{19}$F(p,\(n\)), \(E = 7.5-13.0\) MeV; measured \(\sigma(E;E_n,\theta)\), \(Q\). $^{31}$S, $^{19}$Ne deduced levels.
**65We06 Dipole Photoeffect in $^{16}\text{O}$ II**


*Nuclear Structure:* $^{16}\text{O}$; measured not abstracted; deduced nuclear properties.
65We07 *Investigation of the Neutron Capture Mechanism in Gold*


*Nuclear Reactions: ${}^{197}$Au(n,γ), E=thermal, resonance; measured Eγ, Iγ; deduced reaction mechanism. Ge(Li) detector. K. J. Wetzel, Thesis, Yale Univ.*
A Survey of Values of the 2200 m/s Constants for Four Fissile Nuclides


Nuclear Structure: $^{235}\text{U}$, $^{233}\text{U}$, $^{239}\text{Pu}$, $^{241}\text{Pu}$; measured not abstracted; deduced nuclear properties.
65We09 Near-Symmetric Fission - Identification and Yield of Cd$^{121}$


Radioactivity: $^{121}$Cd[from $^{235}$U(n,F)]; measured $T_{1/2}$. 
65Wh01 $\gamma$ Emission Following Neutron Capture in As$^{75}$


**Nuclear Structure**: $^{76}$As; measured not abstracted; deduced nuclear properties.
Study of the $^{40}\text{(p,d)}^{39}A$ and $^{30}\text{(p,t)}^{38}A$ Reactions


**Nuclear Structure:** $^{39}\text{Ar}$, $^{38}\text{Ar}$; measured not abstracted; deduced nuclear properties.
65Wh03 *Hyperfine Structure of Lu$^{176m}$ by the Method of Atomic Beams*


*Nuclear Structure:* $^{176}$Lu; measured not abstracted; deduced nuclear properties.
65Wh04 Calorimetric Determination of the Mean $\beta$-Energy and Half-Life of Promethium-147


**Nuclear Structure**: $^{147}$Pm; measured not abstracted; deduced nuclear properties.
65Wh05 A Remeasurement of the Half-Life of $^{235}\text{U}$


*Nuclear Structure*: $^{235}\text{U}$; measured not abstracted; deduced nuclear properties.
65Wh06 Neutron-Capture Gamma Ray Studies of Low-Lying $^{52}$V Levels


**Nuclear Reactions:** $^{50, 51}$V$(n, \gamma)$ $E =$ reactor spectrum; measured $E_\gamma$, $I_\gamma$, $\gamma_\gamma$-coin, $\gamma_\gamma(\theta)$. $^{52}$V deduced levels. Natural target.
65Wh08 *Search for a Spontaneously Fissioning Isomer of Am$^{242}$ Formed by Thermal-Neutron Capture*


*Nuclear Structure:* $^{242}$Am; measured not abstracted; deduced nuclear properties.
65Wh09 Neutron Capture Gamma-Ray Spectrometry at the LPTR

Study of the $^{7}\text{Li}(p,\gamma)^{8}\text{Be}$ (16.62-Mev) Reaction


**Nuclear Structure:** $^{7}\text{Li}$; measured not abstracted; deduced nuclear properties.
65Wi02 Energy Levels of Ar\textsuperscript{37}


\textit{Nuclear Structure:} \textsuperscript{37}Ar; measured not abstracted; deduced nuclear properties.
65Wi03 On the Decay of $^{16}$O Giant-Dipole States to Positive-Parity States of $^{15}$O


**Nuclear Structure:** $^{16}$O; measured not abstracted; deduced nuclear properties.
Scattering of 22-MeV Alpha Particles by Fe$^{56}$, Zn$^{64}$, Zn$^{66}$, and Zn$^{68}$


_Nuclear Structure:_ $^{56}$Fe, $^{64}$Zn, $^{66}$Zn, $^{68}$Zn; measured not abstracted; deduced nuclear properties.
65Wi05 Carrier-Free Separation of Titanium and Half-Life Determination of $^{44}$Ti


*Nuclear Structure:* $^{44}$Ti; measured not abstracted; deduced nuclear properties.
65Wi06 *Higher Excited States of Ca*\textsuperscript{41}


*Nuclear Structure*: \textsuperscript{41}Ca; measured not abstracted; deduced nuclear properties.
65Wi07 New Results for the $^7Li(p,\gamma)^{8}Be$


*Nuclear Structure:* $^7Li$; measured not abstracted; deduced nuclear properties.
An Odd-Odd-Nucleus with 0+ Ground State ($^{156}\text{Eu}$)


*Nuclear Structure*: $^{156}\text{Sm}$; measured not abstracted; deduced nuclear properties.
65Wi09 Hyperfeinstruktur-Anomalie und Quadrupolmomente von $^{151}$, $^{153}$Eu


**Nuclear Structure:** $^{153}$Eu, $^{151}$Eu; measured not abstracted; deduced nuclear properties.
Continuum Resonances in He$^4(p,p')He^4^*$


*Nuclear Structure:* $^4$He; measured not abstracted; deduced nuclear properties.
Angular Distributions of the Reactions $^12C(d,p)$, $^14N(d,\alpha)$ and $^{27}Al(d,\alpha)$


**Nuclear Reactions:** $^{12}C(d,p)$, $^{14}N$, $^{27}Al(d,\alpha)$, $E = 0.717-1.740$ MeV; measured $\sigma(E;\theta)$. $^{13}C$, $^{12}C$, $^{25}Mg$ deduced L, J, $\pi$, level density. Natural targets.
65Wi12 Das M/L Einfangverhältnis von $^{127}$Xe


**Radioactivity:** $^{127}$Xe [from $^{126}$Xe(n,γ)]; measured $T_{1/2}$, $I(X\gamma$-coin)/$I_\gamma$. $^{127}$Xe deduced K/ L, L/M electron capture ratio, Q. $^{126}$Xe(n, γ), reactor spectrum; measured $\sigma$(nA). Natural target.
65Wi13 *The Decay of $^{79}$Kr*

G. Winter, ZfK-PhA-17 (1965).

*Nuclear Structure*: $^{79}$Kr; measured not abstracted; deduced nuclear properties.
65Wi14 A Computer Program for Multiple Coulomb Excitation

65Wi15 Internal Pair Formation

65Wi16 Das Einfangverhältnis $P(L)/P(K)$ für den Elektroneneinfangzerfall von $\text{Ni}^{57}$


**Radioactivity:** $^{57}\text{Ni}$; measured L/K capture ratio.
65Wo01 The Second $T=3/2$ State of $^{9}\text{Be}$. Remarks on the $A=9$ System


**Nuclear Reactions:** $^{7}\text{Li}(d,p)$, $E=0.29-0.5$ MeV; measured $\sigma(E)$. $^{7}\text{Li}(d,\gamma)$, $E=0.35-0.4$ MeV; measured $\sigma(E; E\gamma)$. $^{9}\text{Be}$ deduced level, isobaric spin. Natural target.
65Wo02 Lifetime of the 103 keV Level in Np$^{237}$


*Radioactivity:* $^{241}$Am; measured Doppler shift of ce. $^{237}$Np deduced $T_{1/2}$. 
Neutron Spectrum from the T+T Reaction


**Nuclear Reactions:** $^3\text{H(t,n), (t,2n), } E = 0.5\text{ MeV; measured } \sigma(En, \theta n); \text{ deduced branching ratios for } ^3\text{H}+^3\text{H reactions.}$
65Wo04 Neutrons from Protons on Isotopes of Tin


**Nuclear Reactions:** $^{112, 116, 117, 118, 119, 120, 122, 124}$Sn(p,n), $E = 7$-$14$ MeV; measured $\sigma(E;\theta_{n})$. $^{116, 117, 118, 120}$Sb deduced levels, level densities. Enriched targets.
65Wo05 *Hyperfine-Structure Separation, Nuclear Magnetic Moment, and Hyperfine-Structure Anomaly of Cesium-131*


**Nuclear Structure:** $^{131}$Cs; measured not abstracted; deduced nuclear properties.


Nuclear Structure: $^{182}$Ta, $^{134}$Cs, $^{132}$Cs, $^{115}$Cd, $^{197}$Pt, $^{188}$Re, $^{58}$Co, $^{60}$Co, $^{56}$Mn, $^{69}$Zn, $^{111}$Pd, $^{104}$Rh, $^{93}$Tc, $^{95}$Nb; measured not abstracted; deduced nuclear properties.
Nuclear Charge Distribution in Fission: Fractional Yields of Krypton and Xenon Isotopes from Thermal Neutron Fission of $^{233}\text{U}$ and $^{239}\text{Pu}$ and from 14-MeV Neutron Fission of $^{235}\text{U}$


**Nuclear Reactions:** $^{233}\text{U}$, $^{239}\text{Pu}(n,F)$, $E=$thermal; $^{235}$, $^{238}\text{U}(n,F)$, $E=14$ MeV; measured fission yields; deduced most probable charge for a $\beta$-decay chain.