Appendix B  Graduate Degrees in Physics

Recipients of Masters Degrees in Physics

Before 1949, the only physics graduate degrees were at the Masters level. Listed here are the
dates and names of the recipients, along with the thesis title and advisor, if available. After the
federation of Case and Western Reserve in 1967, most of the Masters degrees have been earned as a
result of passing a set of required courses and a qualifying exam, a written thesis no longer being
required. Only a handful of thesis titles appear after that date. In general, terminal Masters students
are no longer admitted to the physics graduate program. Most of the students after 1967 who are listed
here went on to complete the Doctorate. Some left the University after earning their Masters degrees.
Therefore, the list is cut off at 1990.

1895  Woodward, Harry Wilmot
1901  Skeels, Arthur A.
1901  Springsteen, Harry W.
1902  Jones, Franklin Turner
1904  Peabody, Carroll Adelbert
1913  Dreisback, Robert Rickert
1914  Randall, Dorus Powers
1915  Hoff, Clayton Malvern
1917  Hoover, Haider Hazel
1917  Hower, Harry Sloan
1918  Schad, Lloyd W.
1920  Hodgman, Charles D.
1921  Smith, Leland Ray
1922  MacLeone, Archibald Garrard
1926  Martin, John Richard
1928  Goss, Norman Philip
1928  Grebe, John J.
1928  Ott, Lawrence Henry
1930  Jones, Matthew Turner
1931  Offner, Abe
1932  Balas, Michael
1932  Barton, Roger
1932  Danstedt, Rudolph T.
1932  Taylor, Philander B.
1933  Wanamaker, John H.
1933  Buxton, Chester L.
1933  Carpenter, Otis R.
1933  Lamb, Robert E.
1933  Robner, Leopold
1933  Shankland, Robert S.
1934  White, Herbert E.
The Laws of Radiation: A Critical Survey
1935 Boyer, Raymond R.
1935 Prettyman, Irven B.
1936 Anderson, Norma
1936 Eckstein, Richard W.
1936 Ford, James W.
1936 LaGanke, Robert S.
1936 Shear, Sidney K.
Design of an Infra-Red Spectrometer
1936 Thompson, Bruce
1936 Wenger, Emerson
The Extinction Coefficient of Smoke Haze
1937 Donaldson, John B.
1938 Spremulli, Paul Francis
New Terms of the First Spark Spectrum of Manganese
1938 Tindal, Charles H.
1939 Hine, Jerome Brooks
Construction of a Supersonic Oscillator
1939 Stearns, Hoyt A.
1939 Zapf, Kenyon L.
1940 Krumhansl, James A.
1940 McDaniel, Boyce Dawkins
1940 Taylor, James Earl
Ultrasonic Emulsification and Coagulation Effects
1941 Byers, Robert Cummins
An Investigation of Striations in a Kundt's Tube
1941 Davis, Gordon Albert
1941 Parks, J. R.
1941 Yanko, John A.
Dielectric Constants of Some Isomers of Hexyl Alcohol by a Radio Frequency Method
1942 Blythe, Richard H.
1942 Rice, Philip James
1942 Strough, Robert Irving
The Design and Construction of a High Intensity Electron Gun for use in Electron Diffraction
1943 Rogers, Edward Stanley
An Electron Diffraction Camera for Metal Surface Studies
1943 Sharkey, Andrew Gans
1944 Elashowick, Murray
1944 Ellis, Murray
1946 Kerr, George P. Jr.
1947 Arrowsmith, Charles
1947 Carstensen, Edwin Lorenz
Self Reciprocity Calibration of Electroacoustic Transducers
1947 Krohmer, Jack S.
1947 Levine, Marc S.
The Electrokinetics of Certain Immune Reactions
1947 MacIntyre, William James
1947 Macklin, Eugene S.
1947 Miller, Harry Bernard
A Method of Artificial Reverberation
Mountcastle, H.W.
Curtis, C. W.
Curtis, C. W.
Curtis, C. W.
Curtis, C. W.
Curtis, E. C. Jr.
Curtis, E. C. Jr.
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<td>1947</td>
<td>Schenk, Harry Millard</td>
<td>Measurement of Secondary Emission</td>
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<td>Arthur, N. Robert</td>
<td>X-Ray Study of the Anomalous Structure of Cobalt Smith, C. S.</td>
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<td>1948</td>
<td>Fawcett, Sherwood L.</td>
<td>The Effect of Centrifugal Force on the Flutter of a Uniform Cantilever Beam Shankland, R. S.</td>
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<td>Halteman, Eber Kingdom</td>
<td>Quanitative Analysis of Iron and Cobalt Mixtures by Fluorescent X-Ray Spectra Smith, C. S.</td>
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<td>1948</td>
<td>Hart, John Charles</td>
<td>The Thermal Expansion of the Monoclinic Crystal Li2SO4H2O Smith, C. S.</td>
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<td>1948</td>
<td>Landon, Harry Hill Jr.</td>
<td>Scintillation Counter Characteristics</td>
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<td>1948</td>
<td>Landon, Harry Hill Jr.</td>
<td>An Electorn Multiplier as a Particle Detector Shrader, E. F.</td>
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<td>1948</td>
<td>Strough, Robert Irving</td>
<td>A Study of the Evaporation of Iron from Tungsten Smith, C. S.</td>
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<td>1949</td>
<td>Cook, Wilbur Schuyler</td>
<td>Secondary Emission of Metallic Surfaces and Films Shrader, E. F.</td>
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<td>1949</td>
<td>Paulovic, Arthur Stephen</td>
<td>Streaming in Liquids Resulting from Quartz Crystal Vibrations Shankland, R. S.</td>
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<td>1949</td>
<td>Peterson, Richard Holmes</td>
<td>Photomultiplier Tube as a Scintillation Detector of Alpha, Gammas, Neutrons Shrader, E. F.</td>
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<td>1949</td>
<td>Zentner, Robert J.</td>
<td>Ultrasonic Light Diffraction Effects Shankland, R. S.</td>
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<td>1950</td>
<td>Van Horn, David D.</td>
<td>The Calibration and Operational Performance of a 30 MeV Betatron Gregg, E. C.</td>
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<td>A Beta Ray Spectrometer Shrader, E. F.</td>
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<td>1950</td>
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<td>Fleischer, Melvin D.</td>
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<td>Hale, Donald W.</td>
<td>A Beta Ray Spectrometer Shrader, E. F.</td>
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</table>
Appendix B    Graduate Degrees in Physics

A Photographic Pyrophotometer
1950    Hallam, Arthur F.

A Circuit for Short Ultrasonic Pulses
1950    Shankland, R. S.

John, Robert Donald

The Lattice Parameter-Composition Curve of Cobalt-Tungsten
1950    Smith, C. S.

Male, Donald
1950    Polmanteer, Keith Earl

Lattice Parameter V S. Composition Curves for Binary Metallic Solid Solutions
1950    Smith, C. S.

Trubey, Frank Keeler
High Temperature Electronic Recording X-Ray Diffraction Equipment

1950    Warner, Raymond M. Jr.

Design Considerations for a Pair Spectrometer Using Scintillation Counters
1950    Shrader, E. F.

Benedict, Robert Neil
Direct Detection of Photoneutrons Produced by the Bremsstrahlung Spectrum of the Betatron
1950    Crouch, M. F.

Bing, George Franklin
The Pulse Height Distribution from Scintillation Crystals
1951    Foldy, L. L.

Bond, Angus
1951    Foldy, L. L.

Bowman, John Charles
A Secondary Electron Multiplier Design
1951    Shrader, E. F.

Delio, John Gene
An Analysis of the Dynamic Characteristics of a Typical Gas-Turbine Engine
1951    Beth, Richard

Leary, Arthur P.
1951    Neighbours, John R.

The Elastic Constant of Nickel
1951    Smith, C. S.

Rudlin, Leonard
On the Determination of Temperatures of Flames by Means of K-Band Microwaves
1951    Beth, Richard

Trask, Richard Keith
The Lattice Parameter-Composition of Nickel-Tungsten
1951    Smith, C. S.

Anders, Frederic John Jr.
Crystal Imperfections in Thin Films in Metals
1952    Crittenden, E. C. Jr.

Broadbent, Kent D.
A Constant Energy Expander for a Field-Biased Betatron
1952    Gregg, E. C.

Burns, John Wallace
The Elastic Constants of Cu-Si Alloy
1952    Smith, C. S.

Dandois, M.
1952    Groselle, John Benjamin

Temperature Variation of Intensity of Magnetization in Thin Films
1952    Crittenden E. C. Jr.

Krohn, Victor E. Jr.
1952    Layer, Edwin H. Jr.

1952    Ogrinc, Raymond S.

Shrinkage of Proton Tracks in Water Loaded Emulsions
1952    Shrader, E. F.

Robson, John W.
Dosimetry Studies with a Scintillation Crystal
1952    Gregg, E. C.

Stearns, Robert L.
A Statistical Analysis of Interferometer Data
1952    Shrader, E. F.

Tucker, Benson Leland
A Pulsed Scintillation Counter
1952    Gregg, E. C.

Adams, Robert B.
1953
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<td>1953</td>
<td>An Electron Ejection System for the Case Betatron</td>
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<td>Effects of Annealing on Electron Diffraction Line Broadening in Nickel</td>
<td>Bacon, Roger</td>
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<td>Creager, Charles Bicknell</td>
<td>Daniels, Raymond D.</td>
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<td>A Coincidence Study of the Be$^9(\alpha,n)$C$^{12\ast}$ Reaction</td>
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<td>Garr, Carl R.</td>
<td>The Elastic Constants of Aluminum</td>
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<td>1953</td>
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<td>Variation of the Adiabatic Elastic Constants of Aluminum with Temperature</td>
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<td>1954</td>
<td>Cunningham, Donald E.</td>
<td>Magnetic Properties of Thin films at Low Temperatures</td>
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<td>Fessler, Theodore E.</td>
<td>Neutron Characteristic Times</td>
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<td>1954</td>
<td>French, Park</td>
<td>A New Electron Accelerator</td>
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<td>Harmon, Edward L.</td>
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<td>1955</td>
<td>Buskirk, Fred</td>
<td>A Table of Covariant Quantities for a Two Particle System</td>
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<td>Photoproton Detection with an Ionization Chamber</td>
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<td>Elastic Constants of Iron and Iron Silicon Alloys</td>
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<td>Green, David H.</td>
<td>Scattering of High Energy Gamma Rays</td>
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<td>Klann, Paul Gerhardt</td>
<td>The Photodisintegration Cross Sections of Be$^9$, Li$^7$, and Li$^6$</td>
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<td>Electrical Properties of Palladium Films</td>
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<td>Variational Methods for the Determination of Ground States of Two-Electron Systems</td>
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<td>A General purpose Fast Coincidence and Pulse Height Analyzer</td>
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<td>Romanowski, Thomas A.</td>
<td>Response of Organic Scintillators to Alpha Particles, Protons, and Electrons from 0-15 MEV.</td>
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<td>The Vibration Spectrum of a Square Lattice</td>
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<td>The Acoustic Transit Time Error in the Ultrasonic Pulse Echo Method</td>
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<td>Thermal Neutron Mean Lifetime in $\text{H}_2\text{O}$</td>
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<td>Stress Annealing in Vacuum Deposited Iron Films</td>
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<td>On Statistics of Composite Quantum Mechanical Systems</td>
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<td>Schmunk, Richard E.</td>
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<td>Production of Single Crystal Copper Films at Low Temperatures</td>
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<td>Observation of Domain Switching in Thin Vacuum Deposited Iron Films</td>
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<td>1960</td>
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<td>Experimental Investigation of the Anomalous Field Effect in Germanium</td>
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<td>Temperature Variation of Spontaneous Magnetization in Thin Iron Films</td>
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<td>Shoffner, Bruce M.</td>
<td>A Fast Neutron Detector</td>
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<td>Kramers' Theorems and One Dimensional Wave Propagation in Periodic Potentials</td>
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<td>Triple Angular Correlation in Nuclear Reactions Involving Neutrons and Gamma Rays</td>
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<td>Chapman, Jamie C.</td>
<td>The Pressure Derivatives of the Elastic Stiffnesses of Silicon</td>
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<td>Cook, Harlan J.</td>
<td>Band Structure of Black Phosphorus</td>
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<td>Effect of Internal Strain on the Elastic Shear Constants of the Sphalerite Structure</td>
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<td>The Effect of Pairing Correlations on Magnetic Dipole Moments of Odd-A Nuclei</td>
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<td>Galloway, Louie A. III</td>
<td>Neutron Total Cross Sections for U$^{235}$ and U$^{238}$</td>
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<td>A Data Processing and Storage system for Dot-on-Film Pulse analysis</td>
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<td>Jones, James Leo</td>
<td>A Radio-Frequency Mass Spectrometer</td>
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<td>A Study of the Gamma-Ray Spectrum of Sn$^{113}$</td>
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<td>Radiative Capture of Protons in K$^{39}$ and K$^{41}$</td>
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<td>Mountain, Raymond D.</td>
<td>Theory of Thermal Expansion at Low Temperature</td>
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<td>Ionization Potential of Linear Molecules Using a Delta Function Model</td>
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<td>Elastic and Inelastic Scattering of Neutrons from Tantalum</td>
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<td>Angle of Incidence Magnetic Anisotropy in Evaporated Nickel Films</td>
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<td>Smith, L. Dale</td>
<td>A Pulsed Vacuum Spark X-Ray Source</td>
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<td>Stark, Royal W.</td>
<td>Magnetoresistance and Hall Effect of Single Crystals of Aluminum</td>
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Zilsel, Paul R.
Appendix B  Graduate Degrees in Physics

1962 Ali, Hyder Amir  
Hartree-Fock Equations and Ionization Potential for O^{15} for a General Two Nucleon Potential  
Robinson, Berol L.
1962 Babinsky, Andrew Daniel  
Photo-Diffusion in Photoconductors  
Machlup, Stefan
1962 Brand, Darrell A.  
Deuteron Stripping reaction Evidence on Excited States of C^{12}  
Shrader, E. F.
1962 Corll, James A.  
Critical Evaluation of the Ultrasonic Pulse-Echo Technique in Single Crystals
1962 Harker, Yale Deon  
Design, Construction, and Testing of a Large Scale Nuclear Emulsion Processing System  
Frye, G. M. Jr.
1962 Lawrence, Gerald C.  
Effective Range and Expansions for the Cotangent of the Scattering Phase Shift
1962 Moazed, Freydoun  
Transverse Magnetoresistance in Single Crystals of Magnesium  
Eck, T. G.
1962 Munsee, Jack H.  
A Color Scheme for Spatial Resolution Using Liquid Scintillators  
Reines, F.
1962 Nezrick, Frank A.  
A Method to Detect Beta- radiation in the Presence of Gamma Rays  
Reines, F.
1962 Smith, Lawrence H.  
North Orienting System for High Altitude Balloon Research  
Frye, G. M. Jr.
1962 Stephany, Joseph F.  
A Vector Model Theory of Gravitation  
Winterberg, F.
1962 Synn, Eun Hi  
Angular Correlations of Gamma Rays in the Decay of Sb^{124}  
Casper, Karl J.
1962 Wolfe, Elizabeth Anne  
Wright, Donald  
Effect of Lattice Vibrations of Spin-Spin Relaxation Times in some Paramagnetic Materials  
Peterson, R. L.
1963 Bambakidis, Gust  
Blood, Frank Alden Jr.  
Theory of Einstein Bose Gas with an Energy Gap  
Foldy, L. L.
1963 Bond, Peter D.  
Brown, Gerald V.
1963 Chow, Tai-Low  
Chow, William Synjue  
Inelastic Scattering of Relativistic Electrons by Nuclei  
Weinberg, Joseph W.
1963 Erskine, James C. Jr.  
An Investigation of the Two-Center Integrals of Face-Centered Cubic Titanium Crystal  
Reitz, J. R.
1963 Fair, Gale  
An Investigation of Surface Properties of Cadmium Sulfide  
Nixon, J. D.
1963 Giltinan, David A.  
Theory of Thin Ferromagnetic Films by Bethe-Peierls-Weiss Method  
Klein, M. J.
1963 Gillman, David A.  
Non-Local Proton-Proton Interaction  
Thaler, R. M.
1963 Jackson, Jerome E.  
Mean Lives of Positrons in Aqueous Solutions  
McGervy, John D.
1963 Jeffers, Larry A.
1963 Kurfess, James D.
1963 Ogata, Hasashi  
Parker, Gerald H.
1963 Neutron Leakage from the Ends of a Cylindrical Gaseous Fueled Nuclear Reactor
1963 Peters, Harold J.  
A Preliminary Study of Thin Gadolinium Films  
Hoffman, R.W.
1963 Plummer, Robert D.  
Anharmonic Contributions to the Specific Heat of Metals  
Reitz, J. R.
1963 Rote, Donald M.
1963 Shaw, Melvin P.  
Electron Spin Resonance in Lithium  
Eck, T. G.
1963 Shilling, Gerd
1963 Spencer, George L.
1963 Sukow, Wayne W.
1963 Tippie, John W.
1963 Wu, Chi-Shiang  
The Nuclear Matrix for the Beta-Decay of Sb$^{124}$  
Kisslinger, L.
1964 Blaunstein, Robert P.  
Comparison of Mössbauer Sources for Scattering Experiments  
Major, John K.
1964 Bogan, Alexander Jr.  
The Effects of Collisions upon High Frequency Plasma Oscillations  
Foldy, L. L.
1964 Chen, Hsi-Tseng  
Variational Calculation for Deformed Nuclei Applied to Mg-Isotopes  
Tauber, G. E.
1964 Fausel, George William
1964 Frankovsky, Frank A.  
Lattice Parameters of Zinc at Low Temperatures  
Smith, C. S.
1964 Gurr, Henry S.  
Shortest Possible Resolution Time Achievable with a Bubble Chamber Motion Picture  
Reines, F.
1964 Harpster, Joseph W. C.  
Nuclear Spectroscopy with a Wide Depletion Region Silicon Radiation Detector  
Casper, Karl J.
1964 Kazzaz, Abdul-Amir
1964 Krinsky, Barnet  
Temperature Variation of the Grüneisen Parameter  
Foldy, L. L.
1964 Lancia, Frederick N.  
Measurement of Peltier Coefficients on Bi-Te Alloys at 0 Celsius and Kelvin's Second Relation  
McGervey, John D.
1964 Lawson, James R.  
Magnetic Breakdown in the Long DHVA Periods in Zinc  
Gordon, W. L.
1964 Lee, Wellington
1964 Nishiyama, Tatuichiro  
Analysis of an Interference Technique for Thin Film Stress Measurement  
Hoffman, R.W.
1964 Riesenfeld, James  
Annealing of Stress Anisotropy in Thin Iron Films  
Hoffman, R.W.
1964 Ruth, Charles W.  
A Self-Consistent Treatment of the Meissner Effect  
Tobocman, William
1964 Sawyer, Charles M.
1964 Stieglitz, Robert G.  
An Adaptation of the Direct Reaction Calculation Zimmerman, R. L.
1964 Walker, George E.  
An Investigation of the Conditions Under Which a Kernel is a One Particle Density Matrix  
Foldy, L. L.
1965 Berger, Michael A.  
Exchange Effects in Scattering of Slow Electrons by Atoms  
Thaler, R. M.
1965 Bose, Subhendu K.  
Compton, Russell A.  
Gordon, W. L.
1965 Chinh, Le Dinh  
Decision of Ionic Changes in Stimulated Neural Elements by ATR Spectroscopy
Eck, T. G.  
1965  
Goff, James R.  
Investigation of Triggering Detectors for a Balloon Borne Spark Chamber  
Frye, G. M. Jr.  
1965  
Gross, Gerard J.  
Polarization of Protons Elastically Scattered from C^{12}  
Silverstein, E. A.  
1965  
Hieber, Ross  
1965  
Kottler, Herbert  
D-State and Pick-Up effects in Nucleon-Deuteron Scattering  
Kowalski, K. L.  
1965  
Kuebler, Gerard P.  
1965  
Lapham, Jerome P.  
1965  
Lawler, Martin T.  
A Study of Cyclonic Two-Fluid Separation  
Ostrach, Simon  
1965  
Le, Chinh Dinh  
1965  
Lennon, Conrad  
1965  
Miles, Richard G.  
Low Temperature Thermal Expansion Coefficient of LiF  
Smith, C. S.  
1965  
Owens, William Richard  
Recoil Free Scattering  
Major, John K.  
1965  
Pavelle, Richard  
1965  
Pollard, Richard  
1965  
Roberts, David Allen  
DHVA Study of a Dilute Zinc in Aluminum Alloy  
Gordon, W. L.  
1965  
Slabinski, Victor J.  
1965  
Valladares C. Ariel A.  
Low Temperature Specific Heats of Silver-Gold Alloys  
Green, Ben A.  
1965  
Zych, Allen D.  
Identification of Neutron Stars in Nuclear Emulsion  
Frye, G. M. Jr.  
1966  
Armbrust, Wayne T.  
1966  
Bedeson, Michael Peter  
The Internal Compton Effect  
Casper, Karl J.  
1966  
Braley, Richard C.  
Study of the Gamma-Ray Correlations in the Reaction Fe^{56}(n,n') Fe^{56*}(\gamma) Fe^{56}  
Nagarajan, M. A.  
1966  
Caracena, Fernando  
Weinberg, Joseph W.  
1966  
Chi, Huang Gertrude  
1966  
Clune, Lavern Charles  
Low Temperature Specific Heats of a-CuSn and a-CuZn Alloys  
Green, Ben A.  
1966  
Geiger, Alan L. MA  
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Heyckman, Roland V.  
1966  
Kuebbing, Richard A.  
1966  
Liebanauer, Paul  
A Betatron Monitor Employing Cerenkov Radiation  
Benade, A. H.  
1966  
Mayer, Frederick  
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Mayer, John T.  
1966  
Scott, R. MacDonald  
The Mott-Smith Approach Applied to a Shock Wave in a Binary Gas Mixture  
Mawardi, O. K.  
1966  
Topper, David R.  
1966  
Wagner, David Loren  
1967  
Chechile, Richard A.  
Ultrasonic Equation of State of Tantalum  
Smith, C. S.  
1967  
Dollhopf, William E.  
A Nuclear Resonant Detector Using Mg_2Sn^{119}  
Robinson, Berol L.  
1967  
Feldman, Lee  
Model Calculations in Unified Nuclear Reaction Theory  
Tobocman, William
1967  Ferrante, John
1967  Fiske, John M.
1967  Leeson, Jeffrey Sanford
        Chemical Effects of Lead Ions on Positronium  McGervey, John D.
1967  Lin, Lu
        On Rotating Nuclei and Coriolis Anti-Pairing Effect  Goswani, Amit
1967  Loje, Kenneth F.
        Low Temperature Thermal Expansion Coefficient of Sodium Flouride  Schuele, D. E.
1967  Rottmeyer, Robert E.
1967  Roy, Ranendra Kumar
1967  Staib, Jon Albert
1968  Arnold, Jeffrey Mark
1968  Aron, Paul R.
1968  Blackburn, David L.  Smith, C. S.
1968  Cellarosi, Mario
1968  Chen, Ching Hsin
1968  Chen, Ching Lu
1968  Corlew, Gordon T.
1968  Davis, Daniel
1968  Gigante, Joseph R.  Huang, C. Y.
1968  Goldstein, Martin  Hoffman, R.W.
1968  Grier, Norman T.  Sparlin, D.M.
1968  Hankey, Robert E.
1968  Haugland, Edward J.
1968  Hoekstra, Dirk Macy
1968  Hornbeck, Larry J.
1968  Kirschner, Sidney M.
1968  Krajcik, Richard A.
1968  Lindow, James Thomas
        Elastic and Inelastic Scattering of 4.88 and 4.61 MeV Neutrons from Cobalt 59  Shrader, E. F.
1968  Nalcioglu, Orhan
1968  Nielsen, Philip E.
1968  Nordgren, William E.
1968  Roberts, Ronald
1968  Sahr, Louis E.
1968  Taggart, Keith A.
1968  Tesic, Mike M.
1968  Thurman, Ernest R.
1968  Tobin, Thomas M.
1968  White, David E.
1968  Wright, David Lowell
1968  Wu, Homei
        Electronic Specific Heat of a-CuAl and a-CuBe Alloys at Low Temperature  Green, Ben A.
1969  Boord, Warren T.  Eck, T. G.
1969  Burke, Victor B.
1969  Carey, Ronald F.  Dahm, A. J.
1969  Chang, Jhy Jiun
1969  Channell, David
1969  Deo, Priyatama  Segall, B.
1969  Doljack, Frank A.
1969  Eshelman, James H.
1969  Fontanella, John J.
1969 Fukushima, Takao
1969 Gubernatis, James E.
1969 Gupta, Ashok Kumar
1969 Huff, Robert James
1969 Hunt, Ronald A.
1969 Kovitch, James C.
1969 Kuntz, Garland P.
1969 Lee, Shu Tso
1969 Logan, J. Lousi
1969 Mathews, Alan A.
1969 Ng, John N.
1969 Powell, Robert E.
1969 Reitz, Leonard M.
1969 Smith, James B.
1969 Varma, Matesh N.
1969 Woodhouse, Robert L.
1969 Woman, Walter E.
1970 Alvarez-Elcoro, Ignacio
1970 Anthes, William H.
1970 Burwasser, David R.
1970 Dinewitz, Isaac Jacob
1970 Finkelstein, Murray M.
1970 Harding, Thomas James
1970 Jih, Felix R.
1970 Kiernan, Aidin
1970 Kim, Foon
1970 Kogan, Alberto
1970 Kubat, Emanuel Joseph
1970 Reschly, Ronald R.
1970 Wojnowski, Lawrence D.
1971 Baltz, Anthony
1971 Chotteau, Michael
1971 Garfinkel, Charles L.
1971 Gupta, Prabhat K.
1971 Kuo, Fu Shong
1971 Lin, Ta Shyong
1971 Nazaretz, Michael A.
1971 Nerbun, Robert C.
1971 Pak, Yue Leung
1971 Park, Mun Whan
1971 Sethi, Vijay K.
1971 Sharma, Deepak Kumar
1971 Vogel, John Stephen
1972 Apaydin, Erdogan
1972 Behl, Yugal
1972 Birn, Ivan
1972 Blonski, Robert P.
1972 Cardon de Lichtbuer, Pierre
1972 Cowan, John James
1972 delaHostria, Emmanuel
1972 Eckevit, Ahmet
1972 Giordana, Nicholas D.
1972 Krempasky, Jerome J.
1972 Laplante, Paul Richard

The Isospectrum Clarinet System

Vibrational Spectrum of the Hexagonal Close-Packed Wigner Lattice

Foldy, L. L.
Threshold-Memory and the Related Physical Changes in Amorphous As$_2$Se$_2$Te$_4$
Gordon, W. L.
1972  Lerch, John A.
1972  Lindberg, Vern W.
1972  Malin, John Ralph
1972  Nachtman, Joseph C.
1972  Nolan, Anne M.
1972  Ramsey, Thomas W.
1972  Tufts, Memphis D.
1973  Chu, Cor Man
1973  Hunt, Willard F.
1973  Kusner, Ronald R.
1973  Leung, Steven
1973  Lock, James A.
1973  Matthews, David L.
1973  Regone, Carl J.
1973  Rodjak, David J.
1973  Ryan, Robert B.
1973  Smulowicz, Frank
1973  Srikantia, Sriram
1974  Boyle, Frederick P.
1974  Goldfinger, Richard C.
1974  Jacobs, Kenneth Roger
1974  Puhala, Michael
1974  Rako, John G.
1974  Rondon Aramayo, Oscar A.
1974  Soroka, Michael D.
1974  Wenz, Robert P.
1975  Acharya, Kishore
1975  Valenzeno, Dennis P.
1975  Wallett, Thomas M.
1976  Jennings, Wayne D.
1977  Chatterjee, Indira
1977  Eckstein, David L.
1977  Norgren, Richard Michael
1977  Shaw, Brandon H.
1978  Knox, Charles Anthony
1978  Lau, Sing Choy
1978  O'Reilly, John G.
1978  Richards, Bruce G.
1978  Shen, Ying
1978  Simone, Inna
On the Theory of Melting in Correlated Heteropolymer Sequences  Taylor, P. L.
1978  Thompson, Stephen C.
1979  May, Timothy E.
1980  Bradrick, Thomas Dale
1980  Geiger, Jack
1980  Kordesch, Martin E.
1980  Patrick, John
1980  Platt, Daniel Enoch
1980  Smith, Michael K.
1980  Stansfield, Samuel E.
1981  Bello, Alfredo
1981  Lundin, Wade
Secondary Electron Emission from Indium Tin Oxide  Hoffman, R.W.
1982  Blichak, Cynthia L.
1982  Fritz, William Joseph
1982  Hess, Daryll W.
1982  Holla, Jaya K.
1982  Manning, Robert M.
1982  Marino, Richard M.
1982  Middleton, Mark
1982  Stan, Mark A.
1983  Carande, Richard E.
1983  Debbe, Ramiro R.
1983  Gaitan, Frank P.
1983  Roche, James C.
1984  Abel, Phillip Benjamin
1984  Horton, Charles C.
1984  Pandya, Kaumudi Indukumar
1984  Ruan, Jian Zhong
1985  Jiang, Hongwen
1985  Kouzoupis, Spiridon N.
1986  Chang, Jing Yeu Eugene
1986  Dewhurst, Henry Samuel
1986  Fields, Jerry L.
   Interface trap properties of the metal-oxide-silicon carbide capacitor
1986  Huang, Lujia
1986  Li, Zili
1986  Rutan, Douglas M.
1986  Shih, Wen Ling
1986  Wang, Jing
1986  Wiefling, Kimberly Mae
1987  Chaffee, Kevin P.
1987  Kadi-Hanifi, Mohammed Djalil
1987  Larbi, Nacer
1987  Mathews, Paul G.
1987  Tornkvist, Ola
1987  Zypman, Fredy
1988  Jayne, Douglas T.
1988  Kell, Karsten L.
1988  Lamouri, Abbas
1988  Mearini, Gerald T.
1989  Banerjee, Shampa
1989  Chen, Liang Yu
1989  DeRose, Guy A.
1989  DiLiSi, Gregory A.
1989  Krus, David
1989  Kusner, Robert E.
1989  Lee, Choon Heung
1989  Ruan, Minzi Yu
1989  Thakur, Mrinal Kanti
1989  Wang, Kui Long
1989  Wang, Yaxin
1990  Stegall, Robert N. Jr.
   Non-Linear Motion Artifacts in 2-D Fourier Transform Magnetic Resonance Imaging
   Haacke, E. Mark
Doctoral Graduates and their Dissertations
Listed by Advising Professor

The first physics doctorate granted by Case Institute of Technology was in 1949. The first at Western Reserve University was granted in 1962.

Adler, John G.
Will, Theodore A. 1968
A Study of the Ti-Pb-Bi System Using Electron Tunneling

Akerib, Daniel S.
Perera, Thushara 2002
The Limiting Background in a Dark Matter Search at Shallow Depth

Driscoll, Donald D. 2004
Development and Performance of Detectors for the Cryogenic Dark Matter Search Experiment

Wang, Gensheng 2005
The Cryogenic Dark Matter Search and Background Rejection with Event Position Information

Kamat, Sharmila 2005
Extending the Sensitivity to the Detection of WIMP Dark Matter

Benade, Arthur H.
Chrien, Robert Edward 1958
Photoneutron and Photoproton Production in Aluminum and Copper

Worman, Walter Elliott 1971
Self-Sustained Nonlinear Oscillations of Medium Amplitude in Clarinet-Like Systems

Thompson, Stephen C. 1978
Reed Resonance Effects on Woodwind Nonlinear Feedback Oscillations

Keefe, Douglas Howard 1981
Woodwind Tone Hole Acoustics and the Spectrum Transformation Function

Kouzoupis, Spiridon N. 1985
Systematic Model for the Clarinet Spectrum

Hoekje, Peter Lindsey 1986
Nonlinear Self-Sustained Oscillations of Reed Instruments

Lindevald, Ian Morgan 1987
The Perception of Musical Tones in the Statistical Sound Fields of Rooms

Bevington, Philip
Koral, Kenneth F. 1971
A Search for the Bound Trineutron

Nerbun, Robert C. Jr. 1973
A Study of the $^{24}$Mg(d,n) Reaction from 2.5 to 4.0 MeV

Kogan, Alberto 1973
A Study of the $^{28}$Si($^3$He,n)$^{30}$S Reaction Between 3.7 and 4.2 MeV

Bose, Subhendu Kumar 1973
A Study of the $^{20}$Ne($^3$He,n) Reaction from 2.5 to 4.0 MeV

Cverna, Frank H. 1978
Pion production in proton-proton collisions at 800 MeV

Blanpied, William
Levit, Lawrence B. 1971
A Search for a CP-nonconserving Asymmetry in the Decay $K_L \to \pi^+ \pi^- \pi^0$
Brown, Robert W.
Martens, Michael 1991
Gradient and rf coil issues in magnetic resonance imaging
Lai, Song 1996
Brain Functional Magnetic Resonance Imaging Using Blood
as an Endogenous Susceptibility Contrast Agent
Eagan, Timothy Patrick 2003
Studies in Optimization for Magnetic Resonance Imaging
Gordon, Leon Bernard 1977
A Study of Leptoproduction Mechanisms for Neutral Weak Bosons
Sahdev, Deshdeep 1978
Tests for Certain Aspects of Quantum Chromodynamics
Stroughair, John D. 1982
Tests of the Standard Model
Bilchak, Cynthia L. 1984
A Test of Supersymmetry in the Standard Model
Zypman, Fredy R. 1988
High Frequency Electromagnetic Fields in Magnetic Resonance Imaging
DeLaney, David 1988
A General Low-Harmonic Cosmic String
and Its Self-Intersection and Fragmentation
Thompson, Michael R. 1997
Optimization Utilizing Inverse Methods for the Design
of Magnetic Field Systems
Brown and Haacke
Boada, Fernando E. 1990
Inverse Ultrasonic Scattering with Model Function Constraints
Petropoulos, Labros 1993
Magnetic Field Issues in Magnetic Resonance Imaging
Brown and Krauss
Cheng, Yu-chung Norman 1998
Physical Models from the Cosmos to the Factory: From Gravitational Lenses
as a Probe of Cosmology to Electric Field Analysis in Industry
Brown and Shvartsman
Fujita, Hiroyuki 1998
Theory and Design of Radio Frequency Coils in Magnetic Resonance Imaging
Willig-Onwauchi, Jacob David 2001
Field Optimization in Magnetic Resonance Imaging:
Striving for Perfect Shielding and Perfect Sinusoids
Brown and Yue
Liu, Jingzhi 2000
FMRI Studies on Human Brain Function and Model of
Muscle Activation and Fatigue
Casper, Karl
Owens, William R. 1968
Gyromagnetic Ratio of Excited States in Iridium 191
Chandrasekhar, B. S.
Khorana, Brij M. 1968
ac Josephson Effect in Superfluid Helium
Jackson, Jerome E. 1969
A study of the lead-indium alloy system by electron tunneling techniques
Geiger, Alan Leslie 1969
Inelastic Electron Tunneling in Al-Al Oxide-Metal Systems
Augis, Jacques A. 1969
Electronic structure of bismuth alloys

Sood, Brij Raj 1971
Phonon Spectra of Dilute Pb-In Alloys by Electron Tunneling

Gupta, Ashok Kumar 1971
Thermal Conductivity of Superconducting Lead-Indium Alloys

Finkelstein, Murray M. 1972
Oscillatory Magnetostriction and the De Haas-Van Alphen Effect in White Tin

Pak, Yue Leung 1974
Superconductive tunneling in molybdenum

Haugland, Edward J. 1977
Electrical Resistivity and Specific Heat of Nickel Near the Curie Temperature

Chottiner, Gary
Jennings, Wayne 1988
The effects of sulfur segregation on the oxidation of iron

Eppel, Steven J. 1991
Pt on graphite (0001): a model system for the study of physical and chemical properties on small metal islands

Wang, Kui-long 1992
Surface Science Studies of Electrochemical Energy Storage Devices

Zhuang, Guorong 1994
Application of Surface Analytical Techniques to the Study of the Reactivity of Lithium toward Nonaqueous Solvents

Coopersmith, Michael
Brown, Gerald V. 1967
The Excitation Spectrum for a Boson Gas with Repulsive and Attractive Interactions

Neustadter, Harold E. 1969
Electron Mobility in Randomly Located Hard-Core Scatterers

Crittenden, Eugene
Halteman, Eber Kingdon 1950
Electron Diffraction Line Broadening in Nickel Films

Fawcett, Sherwood L. 1950
The Ejection of the Electron beam from the Betatron

Hoffman, Richard Wagner 1952
Study of Ferromagnetism by Means of Thin Films

Rasor, Ned S. 1955
Annealing Kinetics of Lattice Defects in Vacuum Deposited Copper Films

Story, Harold S. 1956
Stress Annealing in Vacuum Deposited Copper Films

Crouch, Marshall
Holzer, Alfred 1960
Thermal Neutron Mean Lifetime in Water

Sobel, Henry Wayne 1969
High Energy Gamma Ray Spectrum from Spontaneous Fission

Dahm, Arnold
Sai-Halasz, George A. 1972
Ionic Mobilities in Solid Helium
Smith, James B. Jr. 1973
Orthopositronium Annihilation in Liquid and Solid Helium

Carey, Ronald F. 1973
Vortex Ring Generated Level Differences in Superfluid Helium

Lau, Shing-Choy 1978
Ion Motion in Solid Helium

Mehrotra, Ravi 1982
Studies on a two dimensional electron lattice

Stan, Mark Anthony 1988
Transport measurements on a two-dimensional Wigner crystal near melting

Jiang, Hong-wen 1989
Study of Melting and Sliding Charge-density Wave Conduction of Two-dimensional Electrons on Helium Films

Kusner, Robert Edward 1993
Melting of Electric Dipoles in a Colloidal Monolayer

Hu, Xue Long 1994
A study of a two-dimensional electron system in the variable-range hopping regime

Karakurt, Ismail 2000
Dephasing Times in a Classical Two-dimensional Electron Gas

Goksu, Mehmet Ilhan 2002
Studies on Edge Magnetoplasmon Modes

Dolan, J.F.
Slabinski, Victor J. 1970
Induction Drag on Large Echo-Type Satellites: Observational Evidence

Eck, Thomas
Stark, Royal W. 1962
The Galvanomagnetic Properties and Fermi Surface of Magnesium

Kaul, Ronald Dean 1963
Level Crossings in Mercury

Brog, Kenneth C. 1963
The Fine and Hyperfine Structure of the 2p State of Li$^6$ and Li$^7$

Wieder, Harold 1964
Level Crossings and Anti-Crossings in the 2P state of Lithium

Shaw, Melvin P. 1965
Cyclotron Resonance Investigation of the Fermi Surfaces for Cadmium, Zinc, and Magnesium

Sampath, Prativadi I. 1965
Cyclotron Resonance Investigation of the Fermi Surface of Zinc

Zych, Dale A. 1967
Cyclotron Resonance in Magnesium

Huff, Robert James 1969
Stark-Induced Anticrossing Signals in the n=4 Term of Singly Ionized Helium

Smith, R. Lowell 1970
Level-Crossing Signals in the 3$^2$D Term of Lithium

Sawyer, William Howell 1971
A Measurement of the Hyperfine Structure of the 2P term of Lithium-6

Powell, Robert Edward 1972
Cyclotron Resonance in Magnesium, Including Field-Normal Geometry

Kennedy, D. Munroe 1995
Low-Energy Radio-frequency Sputtering of Cu, Anodized Al, and Kapton by Argon Plasma Ions

Farrell, David
Patrick, John Lester II 1983
A Study of Some Electrical Events in the Human Heart
Using Superconducting Magnetometry

Fickinger, William
Korpi, John L.  1972
Some Final States with a Lambda in K'n Interactions at 4.9 GeV/c
Marino, Richard Matthew  1985
Antiproton-Proton Interactions; 360 and 650 MeV/c Antiproton Interactions with Al, Cu, Pb

Foldy, Leslie L.
Osborn, Richard Kent  1951
Second-Quantized Theory of Spin-1/2 Particles in Nonrelativistic Limit
Berger, Jay Menton  1953
Deuteron Photo-disintegration at Intermediate Energies
Bing, George Franklin  1954
The Photo-disintegration of Lithium-6: Neutron-Proton-Alpha Particle Model
Buskirk, Fred  1958
On the Theory of Photo-disintegration of Lithium-6
Hockensmith, Duane A.  1960
Bremsstrahlung Spectra Produced by 17.3 MeV Electrons
Haybron, Ronald McClure  1961
Electro-disintegration of Hydrogen-3 and Helium-3
Ford, William F.  1961
Structure of Low-Lying Levels of Lithium-6
Bassichis, William H.  1964
An Investigation of the Boguliubov Transformation Applied to Bose-Einstein Particles
Blood, Frank Alden Jr.  1965
Pair Correlation Functions in Classical Statistical Mechanics
Walker, George E.  1966
Muon Capture and Supermultiplet Symmetry Breaking in Oxygen-16
Kottler, Herbert  1967
Some Sequences of the Properties of the Internal Symmetry Crossing Matrices
Bogan, Alexander Jr.  1967
The Systematics of Muon Capture in a Nuclear Shell Model
Braathen, Hans Jorgen  1969
Spin Algebras and Representations of the Poincare Group
Krajcik, Richard Allen  1970
Electromagnetic Interactions of Composite Systems
Lieh, Jong-Won  1971
On Some Simple Lattice-Spin Systems
Prael, Richard Edward  1972
Wigner Supermultiplet Model for Nuclear Binding Energy Formulae
Thakur, Jagannath  1973
Multiple Scattering in Some Exactly Soluble Models
Lock, James Albert  1974
Meson Exchange Currents in the Deuteron Electro-disintegration
Maassen, John Phillip  1978
Dynamical Corrections to the Fixed Scatterer Approximation
Stansfield, Samuel E.  1986
Spinless Particle in Combined Coulomb and Harmonic Oscillator Potentials

Foldy and Milford
Carome, Edward Francis  1954
The Photo-disintegration of Lithium-6: Deuteron-Alpha Particle Model
Appendix B  Graduate Degrees in Physics

Frye, Glenn M.  1965
Cosmic Ray Primary Electron Flux Measurement with Rigidity Above 5 BeV

Zych, Allen D.  1968
High Energy Albedo and Solar Neutrons Near the Top of the Atmosphere

Oran, William A.  1968
Flux and Energy Spectrum of Cosmic Ray Electrons at a Geomagnetic Rigidity of 4.5 BeV

Staib, Jon Albert  1969
Measurement of the Cosmic Ray Gamma-Ray Energy Spectrum at Balloon Altitudes

Kuo, Fu-Shong  1973
Diffuse Cosmic Radiation Between 5 MeV and 20 MeV

Nazaretz, Michael A.  1976
Atmospheric Neutrons at Geomagnetic Rigidities of 0.4, 4.5, and 11.5 GV

Vogel, John Stephen  1977
Measurement of 10 MeV Atmospheric Gamma Rays at a High Magnetic Latitude

Pendleton, Geoffery  1988
Predicted Performance of a Prototype Solar Neutron Detector

Gordon, William L.
Joseph, Alfred S.  1962
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Appendix B    Graduate Degrees in Physics  331

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