

DET KONGELIGE
DANSKE
VIDENSKABERNES
SELSKAB
KØBENHAVN.

MATEMATISK-FYSISKE MEDDELELSER

UDGIVET AF

DET KGL. DANSKE VIDENSKABERNES SELSKAB

BIND XX



KØBENHAVN

I KOMMISSION HOS EJNAR MUNKSGAARD

1942—43

INDHOLD

	Side
1. FABRICIUS-BJERRE, FR.: Über geschlossene Kurven ($n + 1$)-ter Ordnung im $\mathbb{R}^n$ mit einer Anwendung auf ebene Kurven der konischen Ordnung 5 und 6. 1942	1—26
2. BOHR, HARALD: Über das Koeffizientendarstellungsproblem Dirichletscher Reihen. 1942	1—12
3. CHRISTIANSEN, J. A. and GJALDBÆK, J. C.: On the Reaction between Carbon Monoxide and Alcohol Catalyzed by Alcoholate. 1942	1—22
4. CHRISTIANSEN, J. A.: On the Velocity of Unimolecular Reactions. 1942	1—18
5. JENSEN, AKSEL TOVBORG: The Structure of $\text{SrCl}_2 \cdot 2\text{H}_2\text{O}$. 1942	1—22
6. TRUMPY, B.: The Beginning of the Photon-Initiated Rossi-Curve for Pb, Fe and Al. 1943	1—12
7. PEDERSEN, KAI JULIUS: The Acid Dissociation of the Hydrated Cupric Ion. The Formation of Dimeric Cupric Compounds. 1943	1—26
8. JENSEN, AKSEL TOVBORG: Determination of Particle Size by X-Ray Powder Method. 1943	1—10
9. THORSEN, V.: Ein neues Verfahren zur Messung akustischer Impedanzen. 1943	1—24
10. THORSEN, V.: Über die Energieausstrahlung von einem akustischen Widerstand. 1943	1—22
11. JACOBSEN, J. C. and SIGURGEIRSSON, TH.: The Decay Constant of RaC' . 1943	1—12
12. MØLLER, C. and ROSENFELD, L.: Electromagnetic Properties of Nuclear Systems on Meson Theory. 1943	1—66
13. BILLMANN, EINAR et PEDERSEN, EVALD EGELUND: L'action de la triéthylamine sur l' α -bromopropionate d'éthyle. 1943	1—18
14. LA COUR, DAN: Les recherches sur le magnétisme terrestre. 1943	1—14
15. JENSEN, AKSEL TOVBORG und LANNUNG, AXEL: Untersuchungen über Calciumchlorid und dessen Monohydrat. 1943	1—34
16. RUDKJØBING, MOGENS: On the Continuous Absorption of the negative Hydrogen Ion in the Ultraviolet. 1943	1—12
17. PAIS, A.: On the Photo-Disintegration of the Deuteron. 1943	1—30
18. BOHR, HARALD: Contribution to the Theory of Analytic almost periodic Functions. On the Behaviour of an Analytic almost periodic Function in the Neighbourhood of a Boundary for its almost Periodicity. 1943	1—38
19. MØLLER, C.: On Homogeneous Gravitational Fields in the General Theory of Relativity and the Clock Paradox. 1943	1—26
20. JENSEN, K. A. und FRIEDIGER, A.: Zur Kenntnis der Azole. 1943	1—54
21. HJELMSLEV, JOHANNES: Die Geometrie der schwachen Figuren. 1943	1—64

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BIND XXI



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1944—45



INDHOLD

	Side
1. WEBER, SOPHUS: Untersuchungen über die Radiometerfunktion und die Knudsen'sche Radiometerkraft. 1944	1—57
2. NIELSEN, JAKOB: Surface Transformation Classes of algebraically Finite Type. 1944	1—89
3. STRÖMGREN, BENGT: Tables of Model Stellar Atmospheres. (Model Stellar Atmospheres. I). With the Collaboration of K. Gyldenkerne, M. Rudkjøbing, and K. A. Thernøe. 1944....	1—85
4. BJERRUM, JANNIK: A new Optical Principle for the Investigation of Step Equilibria. 1944	1—22
5. HJELMSLEV, JOHANNES: Beiträge zur nicht-Eudoxischen Geometrie I—II. 1944	1—26
6. PEDERSEN, PEDER: Librationspunkte im restringierten Vierkörperproblem. 1944	1—80
7. HOFF-JØRGENSEN, E.: Investigations on the Solubility of Calcium Phytate. 1944	1—27
8. KOCH, JØRGEN and BENDT-NIELSEN, BØRGE: A high Intensity Mass-Spectrograph for Experiments on the Separation of Isotopes. 1944	1—28
9. BUCH, KAI RANDER: Some Investigations of the Set of Values of Measures in Abstract Space. 1945	1—70
10. RUDKJØBING, MOGENS: A Determination of the Abundances of Sodium and Magnesium in the Solar Atmosphere from Lines near the Series Limits. 1945	1—15
11. FØLNER, ERLING: On the Structure of Generalized almost periodic Functions. 1945	1—30



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BIND XXII



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1945—46



INDHOLD

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1. NAUR, PETER: The Orbit of Comet Du Toit-Neujmin-Delporte (1941 e). 1945	1— 9
2. VEIBEL, STIG, MØLLER, CHRISTIAN, and WANGEL, JØRGEN: Investigations on the Glycosidases of Milk-Sugar Yeast Emulsin. 1945	1—24
3. JENSEN, AKSEL TOVBORG: The Structure of $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$. 1945	1—22
4. CHRISTIANSEN, J. A., and WULFF, INGER: On a new Apparatus for Gas Analysis. 1945	1—23
5. FABRICIUS-BJERRE, FR.: Über lineare und quadratische Abbildungen des Raumes auf eine Ebene. 1945	1—40
6. HJELMSLEV, JOHANNES: Einleitung in die allgemeine Kongruenzlehre. Vierte Mitteilung. 1945	1—40
7. BJERRUM, JANNIK and ANDERSEN, PALLE: Metal Ammine Formation in Aqueous Solution V. Stability of the Zinc and Cadmium Ethylenediamine Ions and the Co-Ordination Numbers of the Metal Ions. 1945	1—25
8. ARLEY, NIELS: A Note on the Foundations of Geometrical Optics. 1945	1—21
9. BAK, B.: The Potential Function of Benzene. 1945	1—31
10. PEDERSEN, KAI JULIUS: The Acid Dissociation of the Hydrated Lead Ion and the Formation of Polynuclear Ions. The Precipitates formed when Solutions of Lead Nitrate and Sodium Hydroxide are mixed. 1945	1—29
11. JACOBSEN, J. C.: A high Voltage X-Ray Installation. 1945	1—15
12. PEDERSEN, KAI JULIUS: The Complex Formation between Cupric and Acetate Ions. 1945	1—25
13. HJELMSLEV, JOHANNES: Einleitung in die allgemeine Kongruenzlehre. Fünfte Mitteilung. 1945	1—37
14. ANDERSEN, ERIK SPARRE and JESSEN, BØRGE: Some Limit Theorems on Integrals in an Abstract Set. 1946	1—29
15. LUND, HAKON und BERG, ARNE: Pyrenstudien. III. Aminopyren. IV. Alkylierung des Pyrens. 1946	1—30
16. BAK, BØRGE: The Potential Function of Methane. With an Appendix on Acetylene. 1946	1—33
17. BRØNSTED, J. N. and KOEFOED, JØRGEN: The Thermodynamic Properties of Paraffin Mixtures. I. 1946	1—32
18. BJERRUM, JANNIK: Studies on Acido Complex Formation. I. Optical Investigations of Cupric Chloride in Mixtures with other Chlorides. 1946	1—43
19. MØLLER, C.: General Properties of the Characteristic Matrix in the Theory of Elementary Particles. II. 1946	1—46



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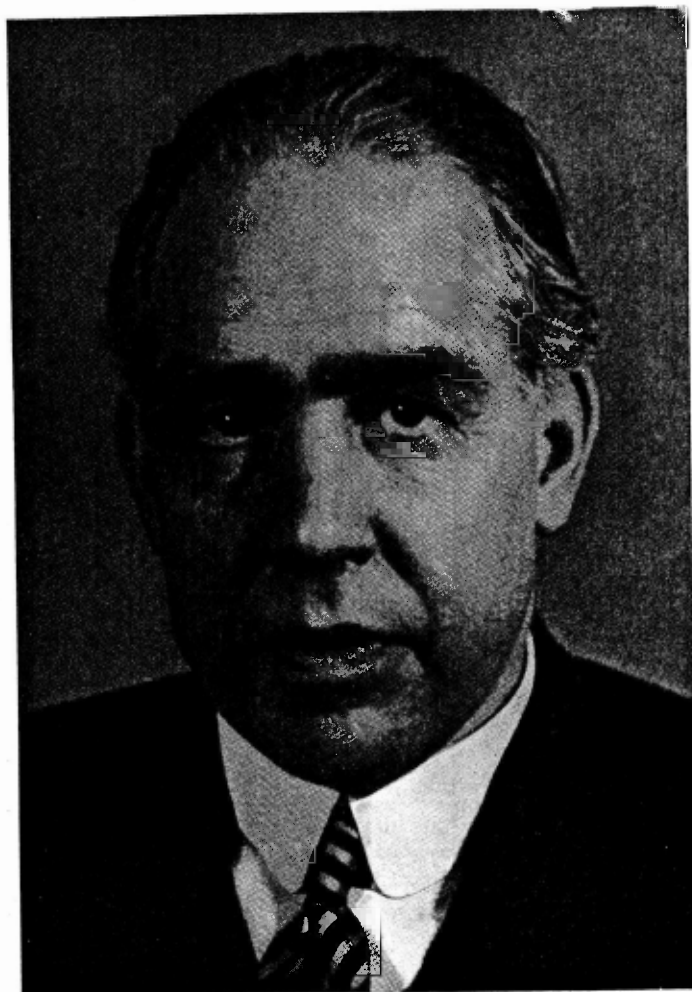
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BIND XXIII

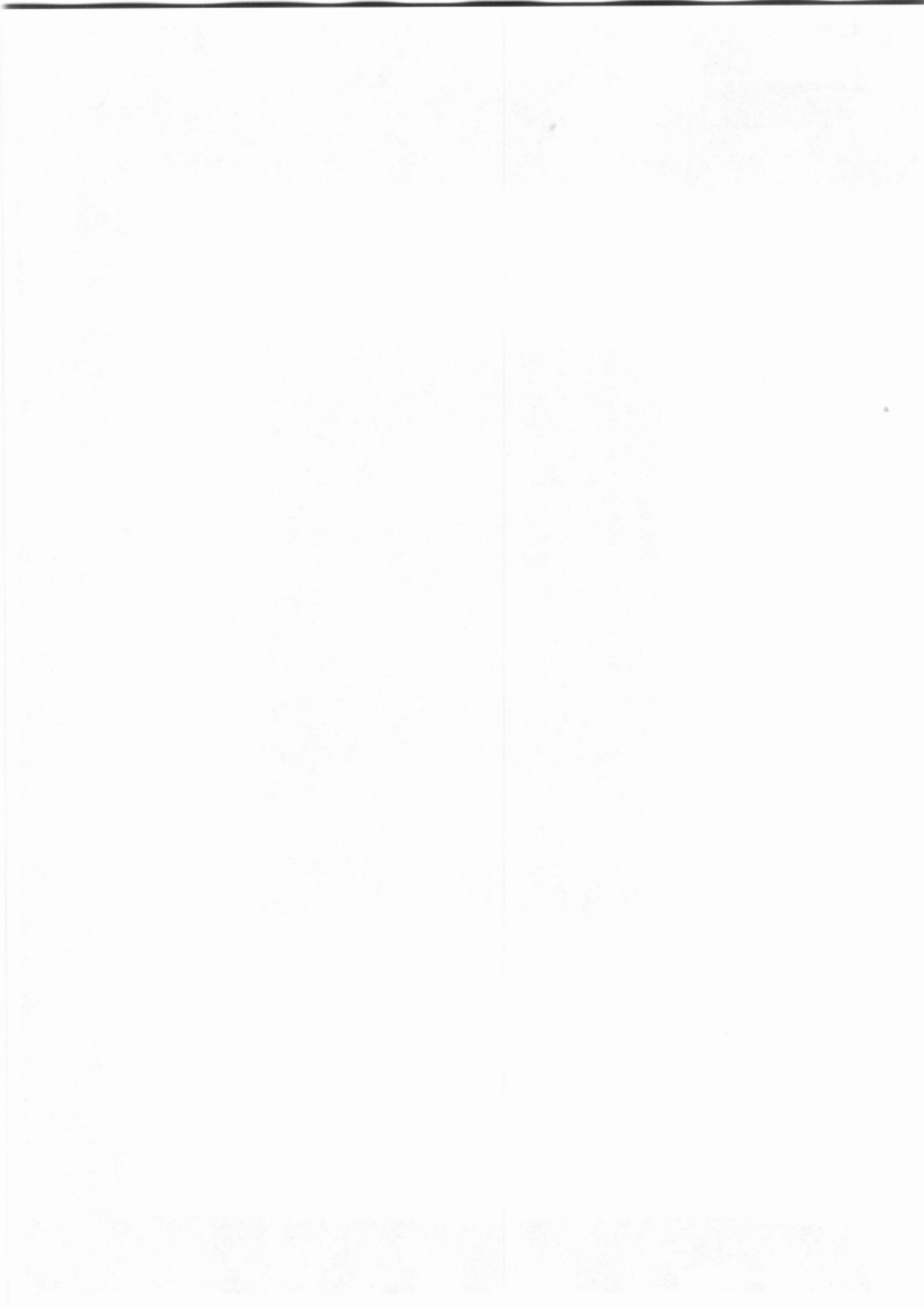


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I KOMMISSION HOS EJNAR MUNKSGAARD
1945





Vilhelm Bohr



TIL

Professor NIELS BOHR

PAA HANS 60 AARS FØDSELSDAG

DEN 7. OKTOBER 1945



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3. RASMUSSEN, EBBE: On the Planeness of Interferometer Plates. 1945.....	1—18
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5. WERNER, SVEN: An Integrating Beam Meter for High Tension Work. 1945.....	1— 7
6. THORSEN, V.: Construction and Calculation of a Variable Acoustic Impedance. 1945.....	1—24
7. ARLEY, NIELS: Cosmic Radiation and Negative Protons. 1945.....	1—42
8. MADSEN, BØRGE S.: Ionization Measurements on Single Recoil Particles from Po, ThC and ThC'. 1945.....	1—16
9. STRÖMGREN, BENGT: An Aplanatic Anastigmatic Lens System Suitable for Astrograph Objectives. 1945.....	1—27
10. LEVI, HILDE: Note on the Permeability of the Red Blood Corpuscles to Potassium. 1945.....	1— 9
11. ROZENTAL, STEFAN: On the Theory of β -Decay II. 1945.....	1—15
12. JACOBSEN, J. C. and KOFOED-HANSEN, O.: On the Recoil of the Nucleus in Beta-Decay. 1945.....	1—34
13. ROSENFELD, L.: Non-Central Coupling in the Mixed Meson Theory of Nuclear Forces. 1945.....	1—17
14. WERGELAND, HARALD: Om et Komplementaritetsforhold ved Spredningseksperimenter. With an English Summary. 1945..	1—12



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BIND XXIV



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1946—50



INDHOLD

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1. BAK, BØRGE: The Potential Function of Ethane. 1946.....	1—27
2. HØJENDAHL, KRISTIAN: Dielectric Constant, Viscosity, Surface Tension, and Critical Data of Boron Tribromide, Dioxan, and Ethylene Dichloride. 1946	1—12
3. LANGSETH, A., and BAK, BØRGE: Hindered Rotation IV. The Raman Spectrum of Deuterated Ethyl Bromides. 1947.....	1—16
4. WEBER, SOPHUS: Untersuchungen über den Einfluss des Ak- kommodationskoeffizienten auf Radiometererscheinungen und Molekularmanometer. 1947.	1—59
5. STRÖMGREN, ELIS: The Short-Periodic Comets and the Hypo- thesis of their Capture by the Major Planets. 1947	1—11
6. CLAUSON-KAAS, N.: Reactions of the Furan Nucleus; 2,5-Dial- koxy-2,5 dihydrofurans and 2,5-Diacetoxy-2,5-dihydrofuran. 1947	1—18
7. KOCH, JØRGEN: A Special Case of Velocity Focusing in a Mag- netic Deflecting Field. 1948	1—22
8. JENSEN, H. HØJGAARD: Some Notes on Heat-Transfer by Radia- tion. 1948.....	1—26
9. BAK, B.: Spectroscopy and Thermodynamics. I. Moments of Inertia of Methyl Bromide. II. Equilibrium Constants of the Reaction $\text{CH}_3\text{Br} + \text{HCl} \rightleftharpoons \text{CH}_3\text{Cl} + \text{HBr}$. Moments of Inertia of Methyl Bromide. 1948	1—35
10. BAK, B.: Geometry of the Molecules Methyl Chloride and Methyl Bromide. 1947	1—7
11. TORNEHAVE, HANS: On a Generalization of Kronecker's Theo- rem. 1948.....	1—21
12. BOHR, HARALD, and FØLNER, ERLING: Infinite Systems of Linear Congruences with infinitely many Variables. 1948	1—35
13. GJALDBÅK, J. CHR.: The Solubility of Carbon Monoxide in some Lower Monovalent Alcohols. 1948.....	1—17
14. BRODERSEN, ROLF: The Inactivation Velocity of Penicillin G by Acids as a Function of the Salt Concentration. 1948	1—24
15. BRODERSEN, ROLF: Kinetical Investigations into Encymatic Inactivation of Penicillin G. 1948	1—28
16. SINDING, ERIK: On the Systematic Changes of the Eccentricities of nearly Parabolic Orbits. 1948.....	1—8
17. TURÁN, PAUL: On some Approximative Dirichlet-Polynomials in the Theory of the Zeta-Function of Riemann. 1948	1—36
18. RASMUSEN, HANS Q.: The Motion of Comet Olbers 1815—1956. 1948	1—66
19. BOHR, AAGE: Atomic Interaction in Penetration Phenomena. 1948	1—52
20. BLATON, J.: On a Geometrical Interpretation of Energy and Momentum Conservation in Atomic Collisions and Disintegra- tion Processes. 1950.....	1—31



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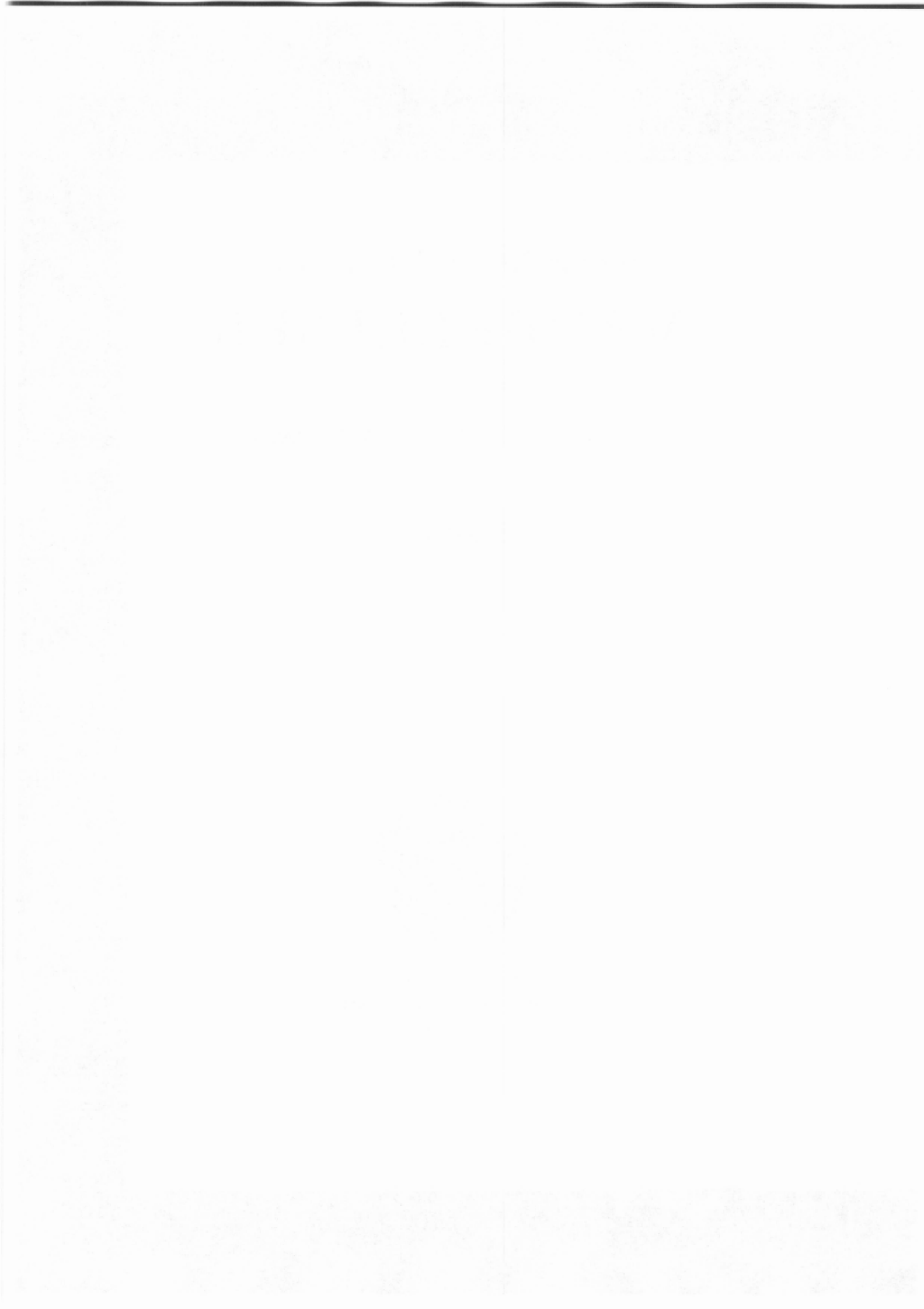
BIND XXV



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1948—50



INDHOLD

	Side
1. REIZ, ANDERS: A Composite Giant Star Model with Isothermal Core. 1948	1- 19
2. RASMUSEN, HANS Q.: The Motion of Comet Schwassmann-Wachmann 2 in the Years 1942-1949. 1948	1- 9
3. HAAR, D. TER: Studies on the Origin of the Solar System. 1948	1- 74
4. ANDERSEN, ERIK SPARRE, and JESSEN, BØRGE: On the Introduction of Measures in Infinite Product Sets. 1948	1- 8
5. ANDERSEN, ERIK SPARRE, and JESSEN, BØRGE: Some Limit Theorems on Set-Functions. 1948	1- 8
6. BOHR, HARALD: On the Convergence Problem for Dirichlet Series. 1949	1- 18
7. SCHATZMAN, EVRY: Le spectre des naines blanches et leur débit d'énergie. 1950	1-100
8. JESSEN, BØRGE: On the Proofs of the Fundamental Theorem on Almost Periodic Functions. 1949	1- 12
9. LEVINSON, N.: On the Uniqueness of the Potential in a Schrödinger Equation for a Given Asymptotic Phase. 1949	1- 29
10. HJELMSLEV, JOHANNES: Einleitung in die allgemeine Kongruenzlehre. Sechste Mitteilung. 1949	1- 27
11. LASSEN, N. O.: On the Energy Loss by Fission Fragments along their Range. 1949	1- 43
12. LANNUNG, AXEL, and JENSEN, AKSEL TOVBORG: Tensimetric and X-Ray Investigations on Magnesium Carbonate Trihydrate and its Dehydration Products. 1949	1- 37
13. UNDERHILL, ANNE B.: On Model Atmospheres for the High-Temperature Stars. 1950	1- 53
14. FØLNER, ERLING: A Theorem on Almost Periodic Functions of Infinitely Many Variables. 1950	1- 15
15. HJELMSLEV, JOHANNES: Über Archimedes' Grössenlehre. 1950	1- 13
16. KOFOED-HANSEN, O., LINDHARD, J., and NIELSEN, O. B.: A New Type of β -Ray Spectrograph. 1950	1- 28
17. FABRICIUS-BJERRE, FR.: Über projektive Böschungslinien auf Flächen 2. Ordnung. 1950	1- 21
18. NIELSEN, JAKOB: A Study Concerning the Congruence Subgroups of the Modular Group. 1950	1- 32
19. FØLNER, ERLING: A Proof of the Simpler Pontrjagin Duality Theorems by Help of the Connection between two Infinite-Dimensional Spaces. 1950	1- 15
20. TORNEHAVE, HANS: A Theorem on the Mean Motions of Almost Periodic Functions. 1950	1- 18



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KØBENHAVN

I KOMMISSION HOS EJNAR MUNKSGAARD

1950—52



INDHOLD

	Side
1. BLOCH, CLAUDE: Variation Principle and Conservation Equations in Non-Local Field Theory. 1950.	1—30
2. HANSEN, JULIE M. VINTER: The Motion of the Periodic Comet Comas Solá (1927 III, 1935 IV, 1944 II) in the Years 1926—1944. 1951.	1— 8
3. BRODERSEN, SVEND, and LANGSETH, A.: Localization of the Electronic Lines in Continuous Absorption Spectra by the Temperature-Effect. 1951.	1—55
4. HUUS, TORBEN: Compound Scattering of Protons and Deuterons. 1951.	1—16
5. LASSEN, N. O.: The Total Charges of Fission Fragments in Gaseous and Solid Stopping Media. 1951.	1—28
6. KOFOED-HANSEN, O., and KRISTENSEN, P.: Maximum and Mean Energy of the Recoil Nucleus in the Beta-Decay of Kr^{89} . 1951.	1—20
7. KOFOED-HANSEN, O., and NIELSEN, K. O.: Measurements on Short-lived Radioactive Krypton Isotopes from Fission after Isotopic Separation. 1951.	1—16
8. KOFOED-HANSEN, O.: Methods for Measurement of Average Values of Energy and Momentum of β -Recoils. 1951.	1—32
9. FABRICIUS-BJERRE, FR.: Über zyklodale Kurven in der Ebene und im Raum. 1951.	1—75
10. HARTMANN, JUL., and TRUDSØ, ERIK: Synchronisation of Air-Jet Generators with an Appendix on the Stem Generator. 1951.	1—39
11. HARTMANN, JUL., and LARRIS, F.: The Air-Jet Generator as a Means for Setting up Waves in a Liquid Medium. 1951.	1—26
12. LASSEN, N. O.: Total Charges of Fission Fragments as Functions of the Pressure of the Stopping Gas. 1951.	1—19
13. VALATIN, J. G.: On Quantum Electrodynamics. 1951.	1—32
14. BOHR, AAGE: The Coupling of Nuclear Surface Oscillations to the Motion of Individual Nucleons. 1952.	1—40
15. van KAMPEN, N. G.: Contribution to the Quantum Theory of Light Scattering. 1951.	1—77
16. PEDERSEN, PEDER: Stabilitätsuntersuchungen im restringierten Vierkörperproblem. 1952.	1—37



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KØBENHAVN

I KOMMISSION HOS EJNAR MUNKSGAARD

1951—53



INDHOLD

	Side
1. BJERRUM, NIELS: Structure and Properties of Ice. I. Position of the Hydrogen Atoms and the Zero-Point Entropy. II. Change in Configuration and Molecular Turns. III. Ionisation of Ice and Molecular Turns Produced by the Ions. The Proton Jump Conductivity of Ice (and Water). 1951	1— 56
2. WINTHER, AAGE: On the Charge of the Recoil Atom in the β -Decay of He^6 . 1952	1— 16
3. RASMUSEN, HANS Q.: On the Original Orbit of Comet 1899 I. 1952	1— 9
4. BOHR, HARALD: On the Summability Function and the Order Function of Dirichlet Series. 1952	1— 39
5. RUDKJØBING, MOGENS: On the Internal Constitution of Relativistically Degenerate Stars. 1952	1— 13
6. ANDERSON, ERNEST C., and LEVI, HILDE: Some Problems in Radiocarbon Dating. 1952	1— 22
7. KRISTENSEN, P., and MØLLER, C.: On a Convergent Meson Theory. I. 1952	1— 51
8. BLOCH, CLAUDE: On Field Theories with Non-Localized Interaction. 1952	1— 55
9. JOST, RES, and KOHN, WALTER: On the Relation between Phase Shift Energy Levels and the Potential. 1953	1— 19
10. GAMOW, G.: Expanding Universe and the Origin of Galaxies. 1953	1— 15
11. SINDING, ERIK: The Future Orbit of Comet 1898 VII (Coddington-Pauly). 1953	1— 13
12. KÄLLÉN, GUNNAR: On the Magnitude of the Renormalization Constants in Quantum Electrodynamics. 1953	1— 18
13. MADSEN, C. B.: Proton Stopping Power and Energy Straggling of Protons. 1953	1— 21
14. WINTHER, AAGE, and KOFOED-HANSEN, O.: On the Coupling Constants in β -Decay. Evidence from Allowed Transitions. 1953	1— 22
15. LINDHARD, J., and SCHARFF, M.: Energy Loss in Matter by Fast Particles of Low Charge. 1953	1— 31
16. BOHR, AAGE, and MOTTELSON, BEN R.: Collective and Individual-Particle Aspects of Nuclear Structure. 1953	1—174



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KØBENHAVN 1953—54
I KOMMISSION HOS EJNAR MUNKSGAARD



INDHOLD

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1. HUUS, TORBEN, and ZUPANČIČ, ČRTOMIR: Excitation of Nuclear Rotational States by the Electric Field of Impinging Particles. 1953	1— 19
2. WEBER, SOPHUS: Über den Zusammenhang zwischen der laminaren Strömung der reinen Gase durch Rohre und dem Selbstdiffusionskoeffizienten. 1954	1—138
3. ALAGA, G., KOFOED-HANSEN, O., and WINTHER, A.: On the Pseudoscalar Interaction in β -Decay. 1953	1— 10
4. CHOUDHURY, D. C.: Intermediate Coupling Calculations in the Unified Nuclear Model. 1954	1— 15
5. LÜDERS, GERHART: On the Equivalence of Invariance under Time Reversal and under Particle-Antiparticle Conjugation for Relativistic Field Theories. 1954	1— 17
6. BELINFANTE, F. J., and MØLLER, C.: On the Relation between the Time-Dependent and Stationary Treatments of Collision Processes. 1954	1— 64
7. BOHR, NIELS, and LINDHARD, JENS: Electron Capture and Loss by Heavy Ions Penetrating through Matter. 1954	1— 31
8. LINDHARD, J.: On the Properties of a Gas of Charged Particles. 1954	1— 57
9. KOFOED-HANSEN, O.: Theoretical Angular Correlations in Allowed Beta Transitions. 1954	1— 19
10. RASMUSEN, HANS Q., and HESSELBERG, O. K.: An Appropriate Method for Integration of the Motion of Periodic Comets. 1954	1— 40
11. D'ESPAGNAT, B.: Meson Production in Meson-Nucleon Collisions. 1954	1— 48
12. KRISTENSEN, P.: Configuration Space Representation for Non-Linear Fields. 1954	1— 53
13. TORNEHAVE, HANS: On Almost Periodic Movements. 1954	1— 42



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KØBENHAVN 1954-55

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INDHOLD

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1. FØLNER, ERLING: On the Dual Spaces of the Besicovitch Almost Periodic Spaces. 1954	1—27
2. EBEL, MARVIN E.: Causal Behaviour of Field Theories with Non-Localizable Interactions. 1954	1—31
3. WILETS, LAWRENCE: Excitation of Nuclear Rotational States in μ -Mesonic Atoms. 1954	1—22
4. BALLHAUSEN, C. J.: Studies of Absorption Spectra. II. Theory of Copper (II)-Spectra. 1954	1—18
5. NAUR, PETER: The Energy Production in Convective Cores in Stars. 1954	1—14
6. NIELSEN, O. B., and KOFOED-HANSEN, O.: A Six Gap β -Ray Spectrometer. 1955	1—19
7. JØRGENSEN, CHR. KLIXBÜLL: Studies of Absorption Spectra. VI. Actinide Ions with two 5 f -Electrons. 1955	1—21
8. BALLHAUSEN, C. J.: Studies of Absorption Spectra. V. The Spectra of Nickel (II) Complexes. 1955	1—18
9. ALAGA, G., ALDER, K., BOHR, A., and MOTTELSON, B. R.: Intensity Rules for Beta and Gamma Transitions to Nuclear Rotational States. 1955	1—22
10. BOHR, A., FRÖMAN, P. O., and MOTTELSON, B. R.: On the Fine Structure in Alpha Decay. 1955	1—20
11. JØRGENSEN, CHR. KLIXBÜLL: Studies of Absorption Spectra. VII. Systems with three and more f -Electrons. 1955	1—29
12. HAAG, R.: On Quantum Field Theories. 1955	1—37
13. HERMANSEN, ALFRED: A Theory of Interference Filters. 1955	1—96
14. BALLHAUSEN, C. J., and JØRGENSEN, CHR. KLIXBÜLL: Studies of Absorption Spectra. X. d -Electrons in Crystal Fields of Different Symmetries. 1955	1—32
15. KOFOED-HANSEN, O., and NIELSEN, A.: Construction of a Spectrometer for Neutrino Recoils: Investigation of the Decay of A^{87} . 1955	1—60
16. NILSSON, SVEN GÖSTA: Binding States of Individual Nucleons in Strongly Deformed Nuclei. 1955	1—68
17. KÄLLÉN, G., and SABRY, A.: Fourth Order Vacuum Polarization. 1955	1—20
18. ALDER, KURT, and WINTHER, AAGE: Matrix Elements between States in the Coulomb Field. 1955	1—18
19. ALDER, KURT, and WINTHER, AAGE: On the Exact Evaluation of the Coulomb Excitation. 1955	1—20



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1955—56



INDHOLD

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1. BOHR, AAGE, and MOTTELSON, BEN: Moments of Inertia of Rotating Nuclei. 1955	1-24
2. BORN, MAX: Continuity, Determinism, and Reality. 1955	1-26
3. BØGGILD, J. K., HOOPER, J. E., ORTEL, W. C. G., and SCHARFF, M.: Some Studies on Heavy Meson Events in Stripped Emulsions. 1955	1-28
4. FRANK, V.: Hall Coefficient and Resistivity of α - and β -Brass from 20-600° C. 1955	1-13
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