

INSTITUTE OF THEORETICAL PHYSICS
KYOTO IMPERIAL UNIVERSITY.

F50 134 N45
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No.

Report

1. The Fifth Lectureship, Physics Department,
Faculty of Science, Kyoto Imperial University.
2. Kitashirakawa Oiwakecho, Sakyo-ku, Kyoto.
3. Government
4. No instrument of importance, the research
being exclusively theoretical.
5. Number of research workers: 3
(Professor 1, Assistant Professor 1, Lecturer 1)
Number of ~~the~~ assistants: 5
Number of other employees: 2
Total number: 10
6. Research Item: Theory of the mesotron.
Leader of Research: Professor Yukawa
Number of Research Member: 5
Period: 1940 ~ 1945 (not yet finished)
Amount of expense: 15,000 yen

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- list of Papers appeared since 1940
1. Sakata, Connection between the Meson Decay and the β -Decay (Phys. Rev. 58, 576, 1940)
 2. Sakata and Taketani, ^{Note} on Casimir's Method of the spin summation in the case of the Meson (Sc. Pap. Inst. Phys. Chem. Res. 38, 1, 1940)
 3. Taketani and Sakata, On the Wave Equation of Meson (Proc. Phys.-Math. Soc. Japan ~~42~~ 22, 959, 1940)
 4. Sakata, On the Theory of the Meson Decay (ibid. 23, 283, 1941)
 5. Sakata, On Yukawa's Theory of Beta-Disintegration and the life-time of the Meson (ibid. 23, 291, 1941)
 6. Janikawa and Yukawa, On the scattering of Mesons by Nuclear Particles. (ibid. 23, 445, 1941)
 7. Janikawa and Neno, Note on the scattering of Mesons (Sc. Pap. Inst. Phys. Chem. Res. 38, 433, 1941)
 8. ~~HA~~ Neno and Kuge, Note on the Magnetic Moment of the Nucleon (Proc. Phys.-Math. Soc. Japan 24, 184, 1942) (Lifetime)
 9. Janikawa, Note on the Lifetime of the Neutral Meson (ibid. 24, 610, 1942)
 10. Nakamura, On the Lifetime of ^{the} Neutral Vector-Meson (Nippon Sugaku-Butsurigaku Kaishi ~~16~~, 201, 1942)

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11. Sakata and Inoue, On the Relation between the Meson and the Yukawa-Particle. (Ibid. 16, 232, 1942)
12. Yukawa, On the Foundation of the Field Theory (Kagaku 12, 251; 282; 322, 1942)
13. Tanikawa, On the Bose-Particle with the Mass larger than the Nucleon (Nippon Sogaku-Bittrurigaku Kaishi 17, 597, 1943)
14. Tanikawa, On the Interaction between the Neutral Meson and the Light Particle (Kagaku 14, 136, 1944)
15. Tanikawa, On the Extension of Stueckelberg's Theory (Ibid. 14, 355, 1944)
16. Tanikawa, On Generalized Transformation Function (in press)
17. Yukawa, On the Foundation of Classical Electrodynamics (in press)

Electrodynamics