

Monthly Reports
By Experimental or Research Institute

1. Name: Fifth Lectureship, Physics Department,
Faculty of Science
2. Location: Kitashinakawa, Sakyo-ku, Kyoto.
3. State Owner: State
4. General View of Experiment or Research
(1st January 1946)

(1) Item: Theory of the Mesotron

- (a) Results: ~~new~~ under research
- (b) Name of the man in charge: Professor Yukawa
- (2) Item: General Theory of Elementary Particles.
- (a) Results: As a generalization of ^{the} concept of state in ordinary quantum mechanics, it is considered that the quantity which represents the amplitude of the a priori probability for the occurrence of a set of phenomena, ~~is~~ has an important significance in relativistic quantum mechanics. It is shown that there exists ^{indeed} the generalized transformation function which can be interpreted as such a quantity. Compare the following paper:

Y. Tamikawa, On the generalized transformation function which can be interpreted as the a priori probability amplitude (Kagaku, Vol 15, No 1, p. 19, ~~1945~~ Sept. 1945)

(b) Professor Yukawa, Assistant Professor Tamura.