



Tadao TANNAKA  
1908-1986

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Tadao Tannaka, professor emeritus of Tôhoku University and one of the former editors of this journal, passed away in Tokyo on October 25, 1986.

He was born in Matsuyama City, Ehime, Japan on December 27, 1908. He graduated from Tôhoku Imperial University in March, 1932 receiving the degree of Bachelor of Science in Mathematics. He was appointed to lecturer in Mathematics at Tôhoku Imperial University in March, 1934, promoted to assistant professor in March, 1942 and full professor in March, 1945. In the meantime, Tôhoku Imperial University conferred on him in 1941 the degree of Doctor of Science in Mathematics. In 1947, the university was renamed Tôhoku University, which he continued to serve as full professor until his retirement in March, 1972. From then until March, 1981 he served as professor at Tôhoku Gakuin University.

His interest in mathematics lied mainly in algebraic number theory and wrote papers on generalizations of the principal ideal theorem. He proved the famous Tannaka duality theorem on compact topological groups, which nowadays is reformulated as the theory of Tannaka categories and is expected to play an important role in algebraic number theory.

He visited the Institute for Advanced Study, Princeton from September, 1955 till April, 1957. He served on the organizing committee for the International Symposium on Algebraic Number Theory held in Tokyo and Nikko in 1955 under the auspices of the Science Council of Japan and the International Mathematical Union. For a long period, he also served as member of the board of directors of the Mathematical Society of Japan.

Editors of the Tôhoku Mathematical Journal

### Major Mathematical Publications of Tadao TANNAKA

- Über einen Satz von Herrn Artin, Proc. Imp. Acad. Japan 9 (1933), 197–198.
- Eine Bemerkung über den Normensatz relativ-Galoisscher Zahlkörper, Proc. Imp. Acad. Japan 9 (1933), 565–567.
- Einige Bemerkungen zu den Arbeiten über den allgemeinen Hauptidealsatz, Japanese J. Math. 10 (1933), 163–167.
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- Über eine Indexrelation, Sci. Rep. Tôhoku Imp. Univ., First Series (Mathematics, Physics, Chemistry), 23 (1934–1935), 343–358.
- Über die Konstruktion der galoisschen Körper mit vorgegebener  $p$ -Gruppe, Tôhoku Math. J. (1) 43 (1937), 252–260.
- Zyklische Zerfällungskörper der einfachen Ringe über dem algebraischen Funktionenkörper, Sci. Rep. Tôhoku Imp. Univ., First Series (Mathematics, Physics, Chemistry), 24 (1935), 165–172.
- Über den Dualitätssatz der nichtkommutativen topologischen Gruppen, Tôhoku Math. J. (1) 45 (1939), 1–12.
- Topological Groups (in Japanese), Iwanami Shoten, Publishers, Tokyo, 1949.
- Algebraic Number Theory (in Japanese), Kyoritsu Shuppan, Publishers, Tokyo, 1949.
- (with F. Terada) A generalization of the principal ideal theorem, Proc. Japan Acad. 25 (1949), 7–8.
- Some remarks concerning principal ideal theorem, Tôhoku Math. J. (2) 1 (1949–1950), 270–278.
- An alternative proof of a generalized principal ideal theorem, Proc. Japan Acad. 25 (1949), 26–31.
- The Duality Principle (in Japanese), Iwanami Shoten, Publishers, Tokyo, 1951.
- Some remarks concerning  $p$ -adic number field, J. Math. Soc. Japan 3 (1951), 252–257.
- On the normal form of cohomology groups, J. Math. Soc. Japan 6 (1954), 16–31.
- On the generalized principal ideal theorem, Proc. Intern. Symp. on Algebraic Number Theory, Tokyo and Nikko, 1955, Science Council of Japan, 1956, 65–70.
- A generalized principal ideal theorem and a proof of a conjecture of Deuring, Ann. of Math. (2) 67 (1958), 574–589.