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Guide to the Yoichiro Nambu Papers 1917-2009



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Descriptive Summary

Identifier	ICU.SPCL.NAMBUY
Title	Nambu, Yoichiro. Papers
Date	1917-2009
Size	43 linear feet (86 boxes)
Repository	Special Collections Research Center University of Chicago Library 1100 East 57th Street Chicago, Illinois 60637 U.S.A.

Abstract Yoichiro Nambu (1921-2015) was a Japanese-born theoretical physicist and Nobel laureate, who served as professor at the University of Chicago from 1958 to 1991. Nambu is widely regarded as one of the great physicists of the twentieth century, and several of his contributions are considered foundational to the modern field of theoretical physics. His most important contributions were made in the areas of spontaneous symmetry breaking – for which he earned the 2008 Nobel Prize in physics – color gauging, and string theory.

Information on Use

Access

This collection is open for research.

Restrictions on Use

Researchers who encounter audio-visual material in the collection should consult staff regarding access.

Citation

When quoting material from this collection, the preferred citation is: Nambu, Yoichiro. Papers, [Box #, Folder #], Special Collections Research Center, University of Chicago Library.

Biographical Note

Yoichiro Nambu (Hepburn: Nanbu Yōichirō, 南 陽子) was born in Tokyo, Japan, on January 18, 1921. He developed an interest in science while in high school, and completed his bachelor's degree in physics at Tokyo Imperial University in 1942. After graduation he was drafted into the Imperial Army, and assigned to a radar laboratory where he studied the work of theoretical physicist, Shinichiro Tomonaga (Hepburn: Tomonaga Shin'ichirō, 湯 川 秀 樹).

At the War's conclusion he married Chieko Hida and embarked on a career in physics, becoming an associate professor at Osaka City University in 1950. He earned his doctorate in physics from the University of Tokyo in 1952, and relocated to the United States that year at the invitation of J. Robert Oppenheimer to study at the Institute for Advanced Study in Princeton.

This relocation turned out to be permanent, and Nambu became a naturalized citizen of the United States in 1970. Nambu accepted a post as research associate at the University of Chicago, where he would spend the remainder of his decades-long career, in 1954. He quickly rose through the ranks, becoming a full professor by 1958, and chairman of the Department of Physics in 1974. In 1977, he was named the Harry Pratt Judson Distinguished Service Professor.

Yoichiro Nambu's contributions to the field of physics were substantial, and he is widely regarded as one of the great theoretical physicists of the twentieth century. These contributions include color gauging, relativistic string theory – a theoretical but leading candidate for a unified theory of matter and forces in nature – and spontaneous symmetry breaking. It was his work in describing spontaneous symmetry breaking (SSB), developed from his research into superconductivity during the 1960s, which earned him a share of the 2008 Nobel Prize in Physics. SSB, the change from symmetric to asymmetric states among large numbers of subatomic particles, provided an explanation for why some substances become superconductors, and why particles carrying a weak nuclear force could obtain mass. This is now an integral component of the Standard Model of particle physics, and the basis for further discoveries of import, such as the discovery of the Higgs-Boson particle.

Nambu retired as professor emeritus in 1991, but remained active and engaged with theoretical physics for the remainder of his life. He died of a heart attack on July 5, 2015, in Osaka, Japan at the age of 94.

Scope Note

The Yoichiro Nambu Papers are organized into ten series according to content and type of record, and include materials from 1914 to 2009. Furthermore, this collection includes material from languages other than English. Such materials are principally in Japanese, but also include Russian, German, and French:

Series I: BIOGRAPHICAL MATERIAL

This series includes biographical interviews – both in published form and unpublished transcripts – given by Yoichiro Nambu between 1990 and 2006. The series includes both English and Japanese language materials, and is arranged alphabetically.

Series II: CORRESPONDENCE

This series contains correspondence to and from Yoichiro Nambu. This correspondence is largely professional in nature, though a small portion of it is personal. Nambu originally organized much of this correspondence topically, and this organization is preserved. All correspondence not so organized is bundled under the heading, "General," and the series as a whole is arranged chronologically.

Series III: RESEARCH NOTES

This series includes Yoichiro Nambu's research notes, written over the course of his career. As far as possible, this series preserves Nambu's original organization and nomenclature, and is arranged alphabetically by research topic. However, a substantial portion of this material is comprised of untitled notebooks, and these are organized chronologically.

Series IV: WRITINGS

This series contains articles and papers written in whole or in part by Yoichiro Nambu. Nambu originally organized this material by topic, paper title, or collaborator, and this organization has been preserved as far as possible. The series is arranged chronologically.

Series V: WRITINGS BY OTHERS

This series contains materials – published and unpublished articles, theses and dissertations, notes and correspondence – by scholars other than Yoichiro Nambu. Nambu originally organized these materials by research topic, paper name, or author, and this organization had been preserved as far as possible. The series is arranged alphabetically.

Series VI: UNIVERSITY OF CHICAGO

This series is comprised of material directly related to Nambu's tenure at the University of Chicago. It contains only two items, the first of which is a bundle of departmental memos, reports, and meeting minutes regarding the review of and proposed changes to the graduate physics program (74:7). The second item includes certificates (in English and Japanese) of the renewal of an academic exchange agreement between the University of Chicago and the University of Tokyo (74:8). These items are arranged chronologically.

Series VII: HONORS AND AWARDS

This series includes material – papers, correspondence, and ephemera – associated with a small number of the awards and honors received by Yoichiro Nambu over the course of his career. The most notable of these is the Nobel Prize in Physics, awarded in 2008 (75:5-6). This series is arranged alphabetically.

Series VIII: CONFERENCES ATTENDED

This series includes material – papers, correspondence, and ephemera – from conferences, workshops, and symposia at which Yoichiro Nambu was in attendance, but did not present or speak. Nambu originally organized this material by the event's name, location, or theme. This organization has been preserved as far as possible, and is arranged alphabetically.

Series IX: CONFERENCES PRESENTED

This series includes material – papers, presentations material, correspondence, and ephemera – from conferences, workshops, and symposia at which Yoichiro Nambu presented, spoke, or otherwise contributed. Just as with Series VIII, Nambu originally organized this material by the event's name, location, or theme, and this organization has been preserved. The series is arranged alphabetically.

Series X: REFEREE REPORTS

This series contains referee reports written by Nambu, principally in regard to articles submitted for publication in the journal *Physical Review Letters*.

Related Resources

The following related resources are located in the Department of Special Collections: <http://www.lib.uchicago.edu/e/spcl/select.html>.

Researchers may browse numerous finding aids under the topic of "Physical Sciences, Astronomy and Astrophysics."

Anderson, Herbert L. Papers

Archival Biographical Files

Chandrasekhar, Subrahmanyan. Papers

University of Chicago. Department of Mathematics. Records

University of Chicago. Department of Physics. Records

University of Chicago. Physical Sciences Division. Records

Simpson, John A. Papers

Subject Headings

- Nambu, Yoichiro, 1921-2015
- Institute for Advanced Study, Princeton University
- Physics Review Letters
- University of Chicago. Department of Physics
- Dirac Prize
- Nambu-Goto Action
- Nobel Prize in Physics
- Quantum Chromodynamics
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