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Guide to the Rubin H. Landau Papers, 1966-2008

Title

Rubin H. Landau Papers (MSS Landau)

Dates

1966-2008 (inclusive)

1975-2005 (bulk)

Creator

Landau, Rubin H.

Summary

The Rubin H. Landau Papers consist of materials generated and assembled by Landau in the course of his research and teaching activities at Oregon State University. Landau was a Professor of Physics at Oregon State from 1974 until his retirement in 2005, specializing in computational physics and quantum mechanics.

Quantity

19 cubic feet (20 boxes)

Restrictions on Access

Collection is open for research.

Oregon State University Libraries, University Archives
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Corvallis, OR 97331-4501
Phone: 541-737-2165
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Finding aid prepared by Elizabeth Nielsen, 2009.

Biographical Note

Physics Professor Rubin H. Landau joined the faculty of Oregon State University in 1974. In addition to his research on high-energy particle-nucleus scattering and quantum mechanics, Landau taught and developed an undergraduate degree program in computational physics, a topic on which he has written several books. From 1996 until his retirement in 2005, Landau had a joint appointment in the Physics and Computer Science Departments. Landau earned a BS from Cornell University in 1965 and graduate degrees from the University of Illinois in 1966 (MS) and 1970 (Ph.D.).

Content Description

The Rubin H. Landau Papers consist of materials generated and assembled by Landau as a physics professor at Oregon State University and document his research, writing, and teaching activities. The collection includes article reprints and conference papers; biographical materials; books; correspondence; presentations and talks; grant proposals; student assessments of teaching and course materials; reference materials; research notebooks; and computer code.

The correspondence documents Landau's interactions with OSU faculty and off-campus colleagues and pertains to the review and publication of Landau's research and the funding and purchase of research equipment. It also includes letters of recommendation for former students and requests to Landau for reviews of books and articles.

The grant proposals are predominantly for research funding but also document the development of a degree program in computational physics. These records include proposals as well as progress and final reports. Course materials are for general physics, modern physics, mathematical physics, relativity, dynamics and classical dynamics, and advanced quantum theory.

The research notebooks document research conducted by Landau and graduate students that he advised. Research topics include proton nucleus scattering, quark models, kaon scattering, pion scattering from nucleons/nuclei, and relativistic heavy ions. The computer code was written by Landau for programs to solve integral forms of the Schrodinger Equation for scattering and bound states.

The compact discs contain course materials, talks, computer programs, and a curriculum vita.

Preferred Citation

Rubin H. Landau Papers, Oregon State University Archives, Corvallis, Oregon.

Acquisition Information

The papers were donated to the Archives in 2008.

Processing Note

This collection is not fully processed; this guide is preliminary. Labels from research notebooks were photocopied by Archives staff, annotated by Landau with additional information regarding the research topic and names of collaborators, and placed into the folders housing the contents from the notebooks.

Additional Reference Guides

[Preliminary container list](#) available online.

Related Material

The Archives holdings include the [Physics Department Records \(RG 037\)](#) and the papers of several physics faculty, including [Melvin Cutler](#), Victor Madsen, [David B. Nicodemus](#), [E. Dale Trout](#), and Willibald Weniger.

Subjects

This collection is indexed under the following headings in the OSU Libraries Catalog. Researchers desiring materials about related topics, persons, or places should search the catalog (<http://oasis.oregonstate.edu>) using these headings.

Organizations

Topics

Mathematical physics.

Physics--Computer simulation.

Physics--Data processing.

Physics--Research--Oregon--Corvallis.

Physics--Study and teaching (Higher)--Oregon--Corvallis.

Quantum theory.

Forms of Materials in the Collection

Compact discs.

Other Creators

Oregon State University. Dept. of Physics.