



Smithsonian
National Museum of American History
Kenneth E. Behring Center

Guide to Brookhaven National Laboratory Bubble Chamber Records

NMAH.AC.0522

NMAH Staff

1998

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Brookhaven National Laboratory Bubble Chamber Records
Identifier:	NMAH.AC.0522
Date:	1959 - 1960
Extent:	1.67 Cubic feet
Creator:	Brookhaven National Laboratory Electricity and Modern Physics, Division of, NMAH, SI.
Language:	English

Administrative Information

Acquisition Information

Collection donated by Brookhaven National Laboratory, through Bernard J. McAlary, 1994, December 15.

Provenance

Collected by the Division of Electricity and Modern Physics, NMAH, transferred to the Archives Center December 12, 1994.

Separated Materials

The bubble chamber itself is in the Division of Medicine and Science. See Accession no. 1978.2309.

Processing Information

Collection is unprocessed.

Processing Information

Collection processed by NMAH Staff, 1998.

Preferred Citation

Brookhaven National Laboratory Bubble Chamber Records, Archives Center, National Museum of American History.

Restrictions

Collection is open for research.

Conditions Governing Use

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Biographical / Historical

This is an unprocessed collection.

Scope and Contents

Documentary materials relating to the construction and operation of the 80-inch hydrogen bubble chamber at Brookhaven National Laboratory: a 16mm film of the construction of the bubble chamber; 6 reels of audiotapes from the operation of the bubble chamber, 8 rolls of 70mm film of particle tracks; 3 rolls of 35mm film of particle tracks; a log book of the bubble chamber, recording the discovery of the Omega-minus particle; an operations manual for the chamber; and a "user package" for the chamber. Some of the film records the discovery of the Omega-minus particle.

Arrangement

1 series. Unarranged.

Bibliography

See "80-inch Bubble Chamber" by Brookhaven National Laboratory, http://www.bnl.gov/bnlweb/history/80_inch.asp.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Accelerators
- Bubble chambers
- Nuclear physics
- Particle tracks
- Particles (Nuclear physics)
- Subatomic particles

Types of Materials:

- Audiotapes -- 1950-2000

Logs (records)
Motion pictures (visual works) -- 1960-1980
Photographs -- 35mm -- 1950-2000
Photographs -- 70mm -- 1950-2000

Names:

Electricity and Modern Physics, Division of, NMAH, SI.
United States. Dept. of Energy