

# Ernest Orlando Lawrence Berkeley National Laboratory

## Records Transmittal

<b>Division</b>	<b>Department</b>	<b>Archives and Records Office Use Only</b>
Physics		
<b>Group</b>		<b>Filing Code</b>
Group A (Alvarez)		ARO-2538
<b>Location</b>	50B-5239	<b>LBL Accession Date</b>
<b>Transferee</b>	M. Lynn Stevenson	
<b>Head of Department</b>		<b>FRC Accession No.</b>

### Records Title

Group A Physics Motion Picture Film

### Inclusive Date of Records

1961 1966

### No of Containers

1 FRC Box

### Brief description of records

AT NARA  
NRHS 434-04-024  
Movie film reels of the Alvarez Group's physics research and development projects during the 1960s. Several of the films were used in presentations and talks given by the Group or its leader, Luis W. Alvarez. The motion pictures present the Group's significant discoveries and the major research instruments they developed, including the Hydrogen Bubble Chamber; Data Analysis using the Spiral Reader (1963); and the Scanning Measuring Projector (SMP). The Spiral Reader scanned up to 150 particle events per hour. The SMP combined in one step the scanning and measuring of nuclear particle tracks. The development and use of these instruments increased the Alvarez's Group's number of measured nuclear events from 80,000 per year in 1962 to 1,500,000 events per year in 1968. The Bubble Chamber data provided important evidence of subatomic particles, including hyperons, kaons, and new particles or "resonances" as well as the principle of parity. AT NARA  
NRHS 434-04-024

### Materials

Sound Recordings

### Records Retention

- Historically Valuable Documents. Do not destroy. A detailed folder listing is included with the Records Transmittal
- Destroy/Review on a scheduled basis with a minimum retention of \_\_\_\_\_ years. Disposal/Review Date: \_\_\_\_\_ Perm.

### This is in accordance with:

- The National Archive General Retention Schedule. Citation \_\_\_\_\_ NI-434-98-23 Item 12.1
- The Department of Energy Retention Schedule. Citation \_\_\_\_\_

### Disposal Authorization:

The legal retention of the records listed on this Records Transmittal has elapsed. Since I foresee no use of these records, I authorize their disposal.

\_\_\_\_\_  
Signature of Department Head

\_\_\_\_\_  
Date

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Records Transmittal**

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Container  Of