

# Ernest Orlando Lawrence Berkeley National Laboratory

## Records Transmittal

|                              |                   |   |
|------------------------------|-------------------|---|
| <b>Division</b>              | <b>Department</b> | <b>Archives and Records Office Use Only</b> |
| Environment, Health & Safety |                   |   |
| <b>Group</b>                 |                   | <b>Filing Code</b>                          |
| Division Library             |                   | ARO-2726                                    |
| <b>Location</b>              | B75B-110          | <b>LBL Accession Date</b>                   |
| <b>Transferee</b>            | Trina Baker       | 4/4/1996                                    |
| <b>Head of Department</b>    |                   | <b>FRC Accession No.</b>                    |
|                              |                   |   |

### Records Title

184 Inch Cyclotron Accelerator Film Footage

### Inclusive Date of Records

1949      1949

### No of Containers

1 Flat Storage Box (Medium)

### Brief description of records

AT NARA  
NRHS 326-00-010  
This series consists of two silent film reels. The large reel of film footage shows the 184" Cyclotron Building and surrounding area. The smaller reel shows the 12B accelerator cave run. Both films date from 1949.  
The 184" cyclotron was construction between 1941 and 1946 and began operation on November 1, 1946. After winning the Nobel Prize in 1939 for the invention of the cyclotron, Ernest O. Lawrence made his push for a machine that would feature a magnet weighing 4,000 tons. Its accelerating chamber would measure 184 inches in diameter and would be capable of rocketing atomic particles to energies in excess of 100 MeV. The 184" was used to first produce and identify a subnuclear particle (the charged pi meson, or pion) at an accelerator, to study proton-proton and neutron-proton interactions and for the use of heavy particles in medical therapy.

### Materials

Motion Picture Film, Black and White Positive

### 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 \_\_\_\_\_ DOE 1324.2A Schedule 14, Item 2.d.3
- 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

**Ernest Orlando Lawrence Berkeley National Laboratory  
Records Transmittal**

|   |                       |                                |
|---|-----------------------|--------------------------------|
| <b>Division</b><br>Environment, Health & Safety                     | <b>Department</b><br> | <b>Filing Code</b><br>ARO-2726 |
| <b>Group</b><br>Division Library                                    |                       |                                |
| <b>Records Title</b><br>184 Inch Cyclotron Accelerator Film Footage |                       |                                |

**Container**  **Of**

Film Reel Canister

1 Bldg 5, 1949, 12B Cave Run