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Engineering
Physics
Betatron Project Records, 1941-1945

The materials listed in this document are available for research at the University of Illinois Archives. For more information, email illiarch@illinois.edu or search <http://www.library.illinois.edu/archives/archon> for the record series number.

Box 1:

Financial Documents, 1941-42

Betatron Project Ledger

Electron Induction Accelerator in Abbott Power Plant, 1941-42 - showing date, payroll and amount of budgeted and contingency expenditures for travel, freight, wages, electrical and general work, experimental equipment and personal expenses

Betatron Project Laboratory Notebook

Donut Design Book

September 28, 1942-December 30, 1946 - Notes, diagrams, tables and sketches on the design and production of vacuum tight porcelain donut-shaped tubes for the betatron - Gerald Almy of Physics, Sidney M. Dancoff of Physics, George C. Baldwin, R.K. Hursh of Ceramic Engineering

Office of Emergency Management Computation Book Number 2

October 9, 1942-April 2, 1945 - Chronological record of gold and platinum plate tests, donut baking and heat tests, including diagrams, tables of results, equations and observations

Kerst, Almy, Phillips, Baldwin, Harris, Zimmerman and Girard

Betatron - Office of Emergency Management Book Number 4

May 7, 1943-July 25, 1944

Diagrams, graphs, tables and observations on a series of tests of donuts and injectors
The volume contains a list of betatron (B-1 to B-3, B-41 to B-43 and B-51) and monitor serial numbers

Betatron Injector Book

June 2, 1944-January 9, 1945 - Diagrams, tables of results and observations for injector design tests

Almy-Kerst Correspondence, April-July, 1944

Betatron Staff (Electron) Coasting Experiment Book Number 4

July 25, 1945-October 16, 1945

Diagrams, table and observations for thyatron and flux forcing experiments
The volume includes "Equilibrium Orbit Determinations" 3pp., June 16, 1942-April 19, 1945 and "Ideas on the Coasting Test" 5pp., September 2, 1944