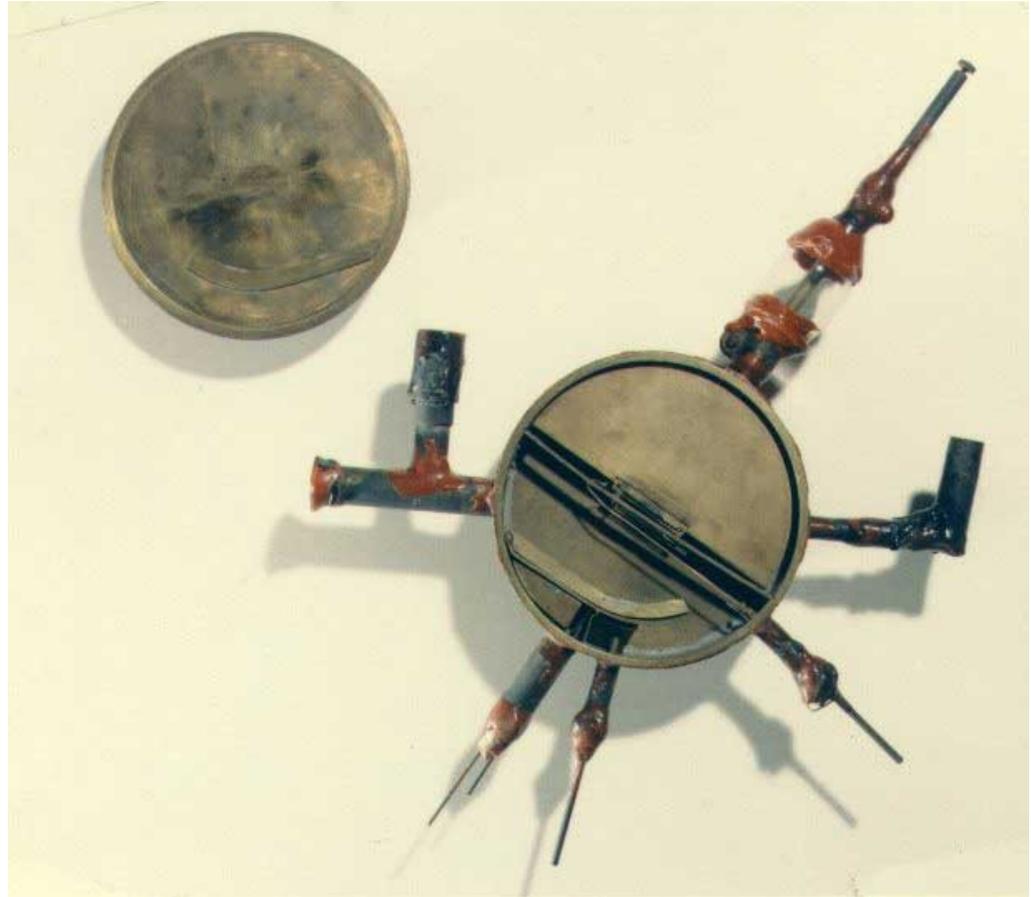


Cyclotrons & Synchrotrons

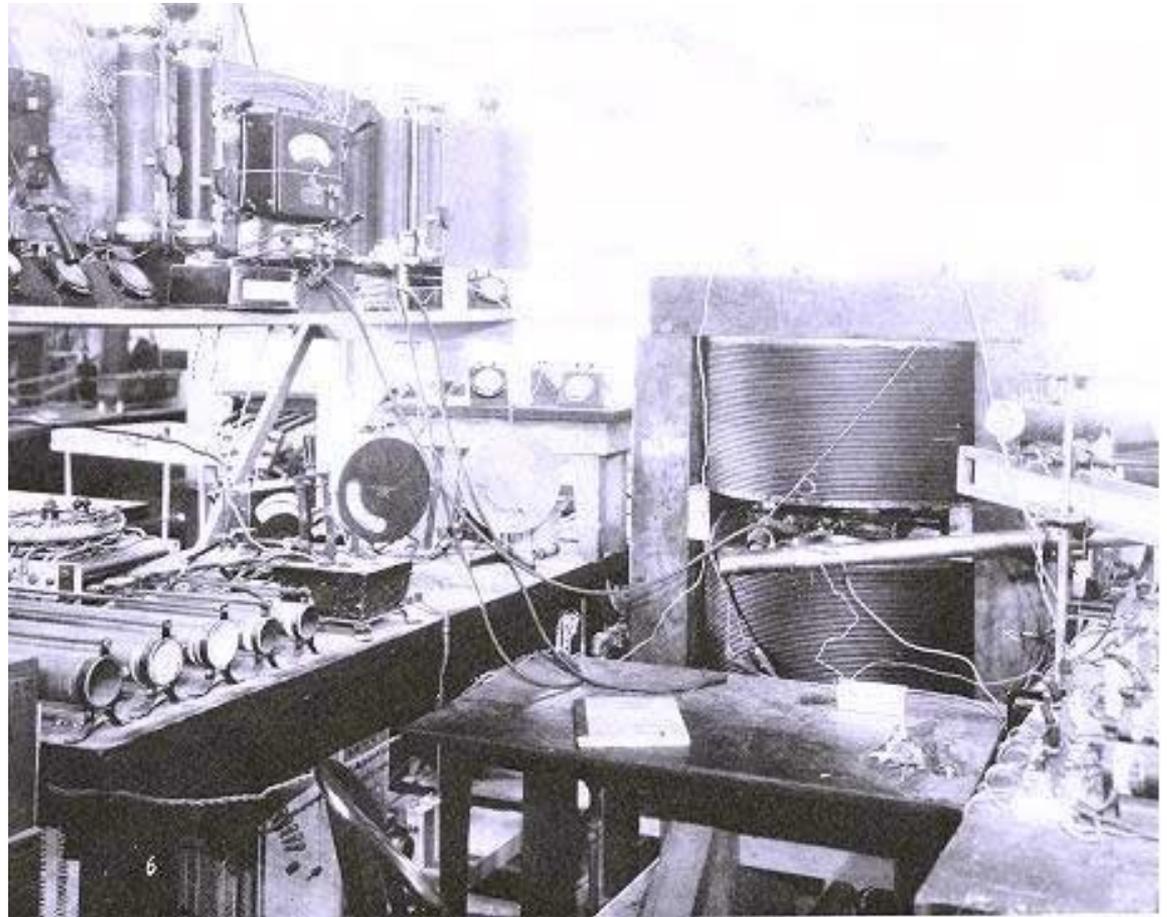
The very first cyclotron

- Developed by Ernest Lawrence ~ 1932
- 4.5" in diameter
- Berkeley, Calif



Cyclotrons (cont.)

- A 2nd version at Lawrence Berkeley Lab



Cyclotron (HUP) for Isotope Preparation

- 2-3 m in diameter
- 31, 40, 47 MHz
- 13, 22, 30 MeV

Proton Therapy Center - Perelman



Proton Therapy Center – Perelman Center (HUP)

