

Clicker question 1

On the scale of A (easy) to E (difficult): how difficult was the exam?

Clicker question 2

On the scale of A (unfair) to E (fair): how fair was the exam?

Grading:

Laboratory: 20%

Homework: 7.5%

In-class participation, quizzes (I-clicker): 12.5% (quiz: 5 %)

Midterms (two): 30%

Final: 30%

More than 50% of the grade is still undecided

A: Understanding all major concepts

B: Understanding all major concepts, but making some mistakes on tests

C: Did not understand one major concept

D: Not adequate understanding of more than one concept

F: Failure to understand any concepts

Mid-term 2: 11/10

In-class quiz: 10/18, 11/1, 11/17

Exam grades:

80 or above: great job!

50 or above: doing ok

35 or above: could be doing better

21 to 34: signals signs of trouble (20% of class)

Below 20: you might be in trouble (33% of class)

$$\vec{F}_B = q\vec{v} \times \vec{B}$$

Units of magnetic field: Tesla

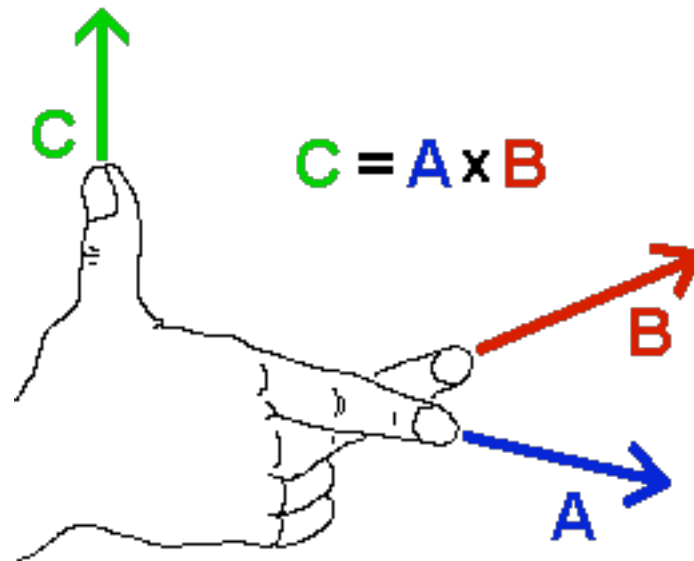
1 T = 10000 Gauss

Surface of earth: 0.5×10^{-4} T

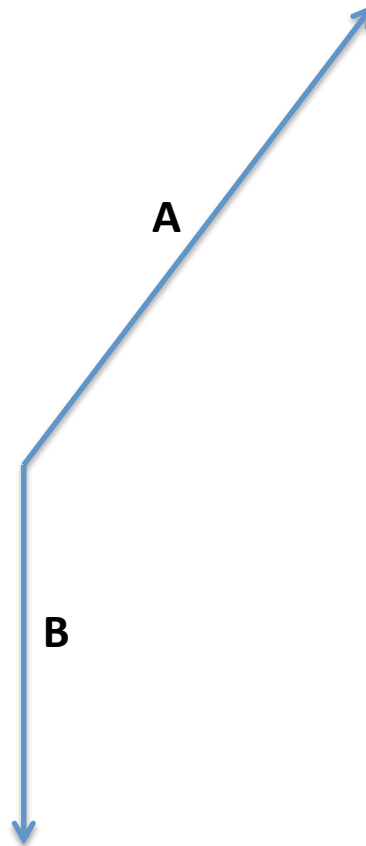
Bar magnet: 1.5 T

Strong superconducting magnet: 30 T

Right hand rule



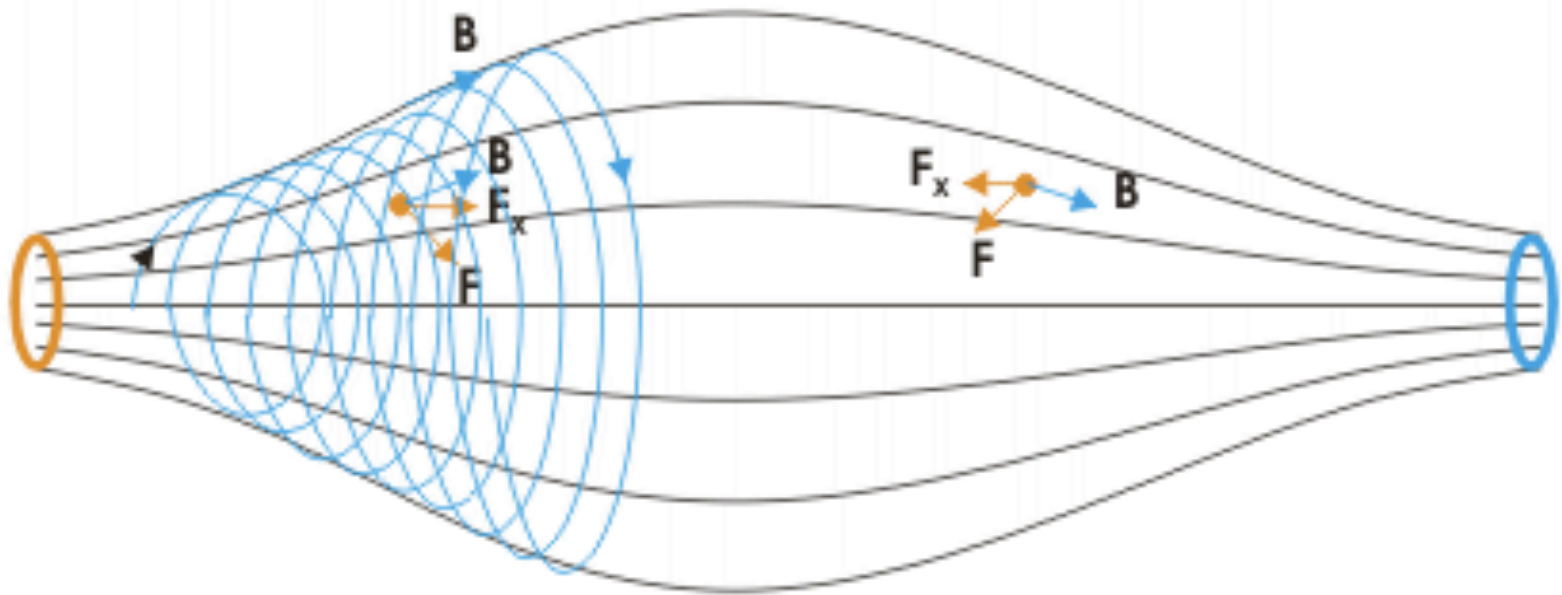
Clicker question 3

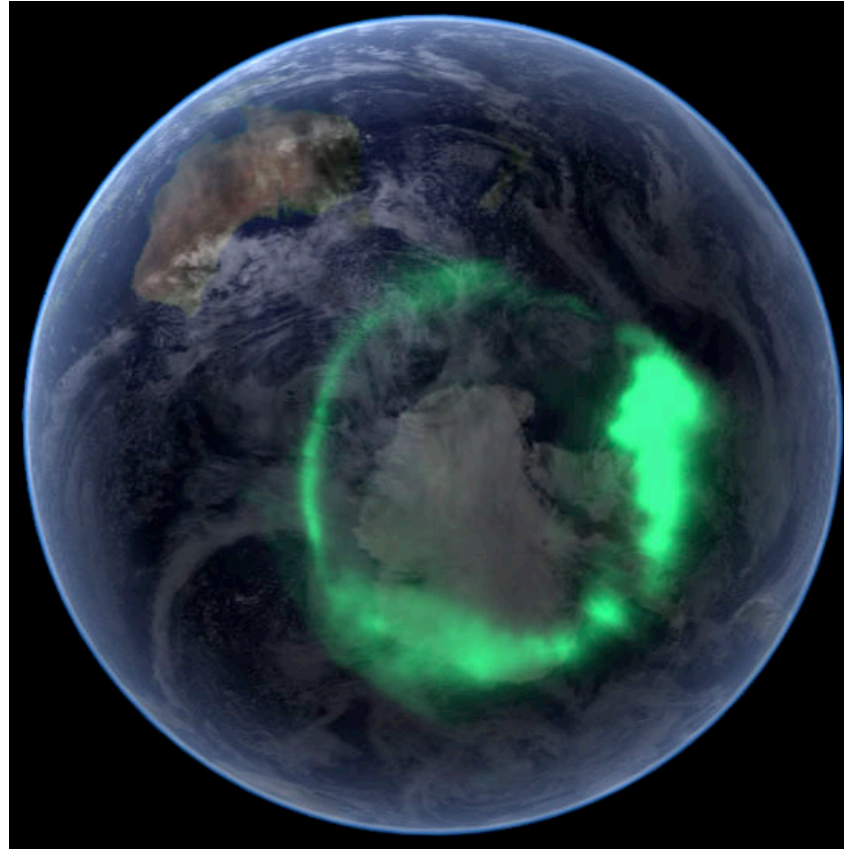


$\mathbf{A \times B}$ points towards

- A: into the board**
- B: out of the board**
- C: points left**
- D: points right**

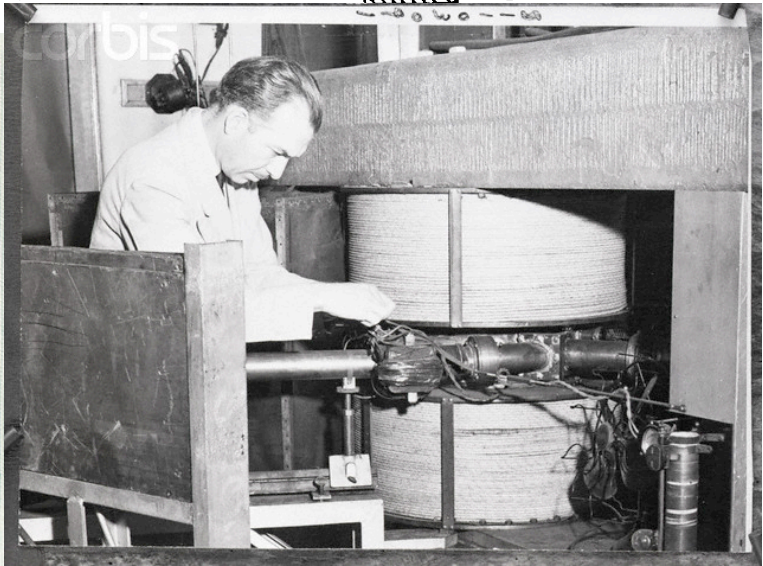
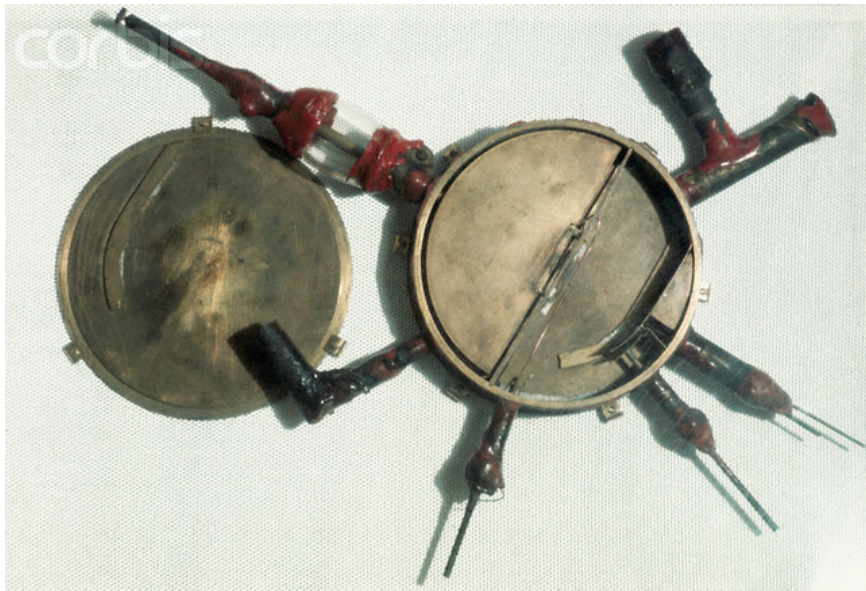
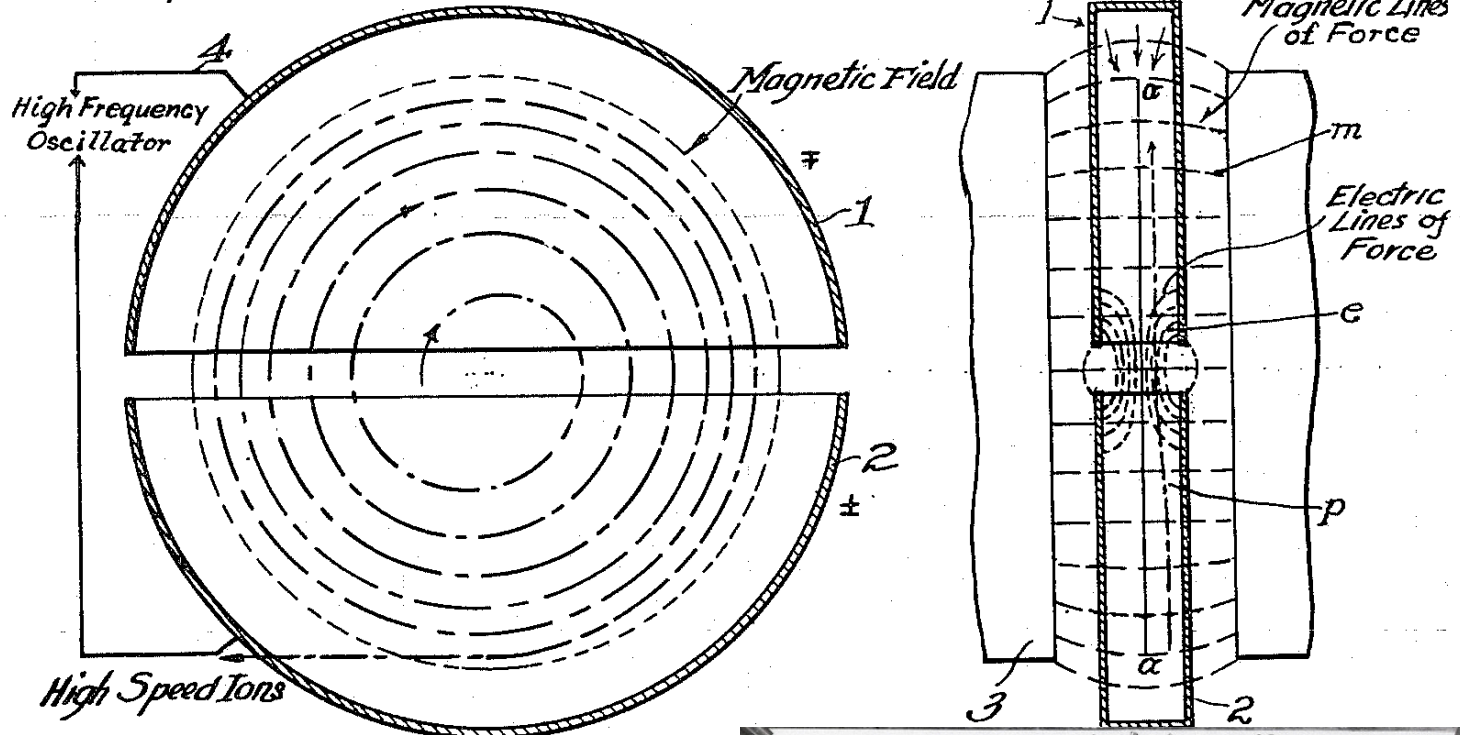
Magnetic Bottle





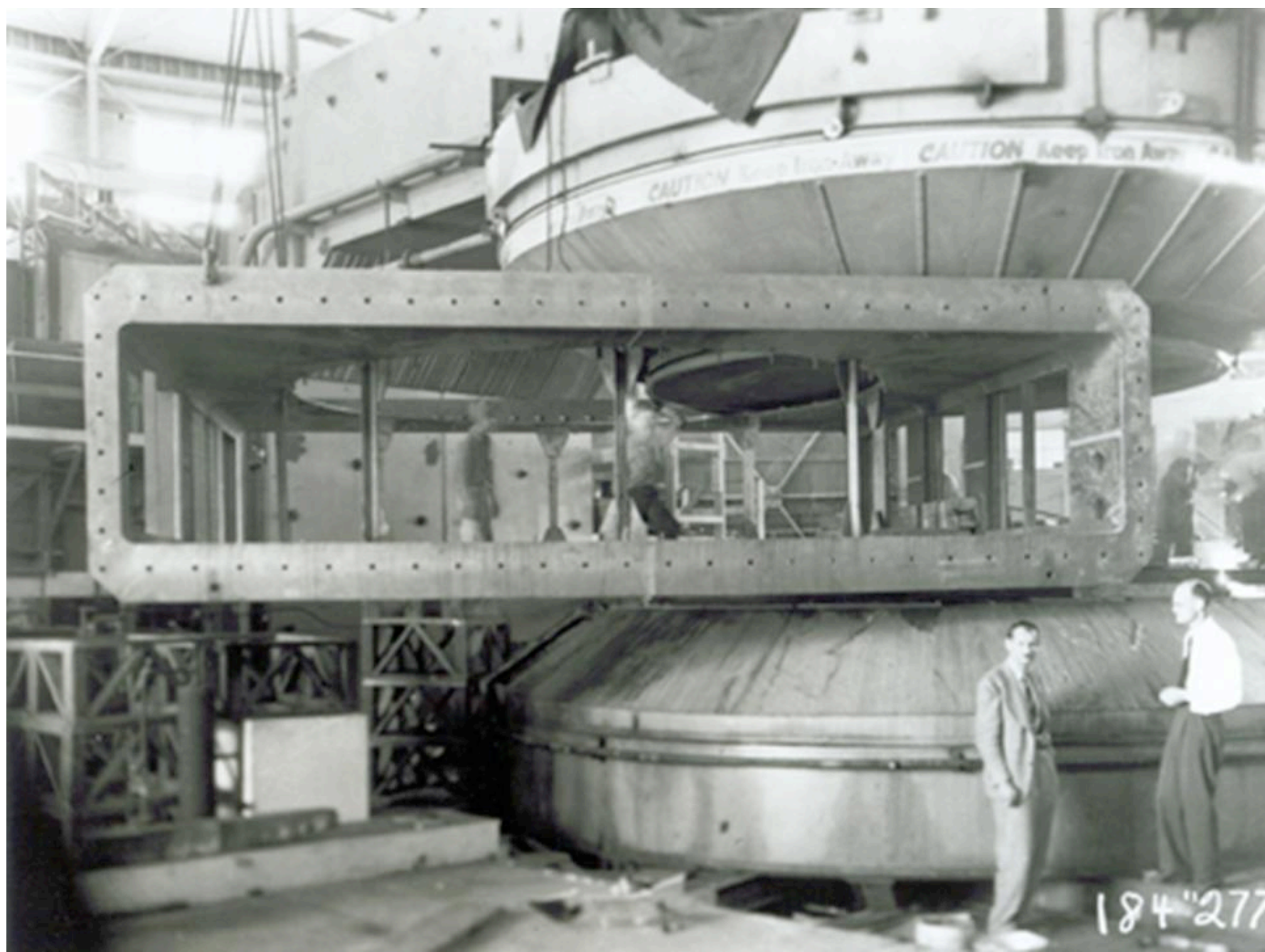
Velocity selector

Cyclotron

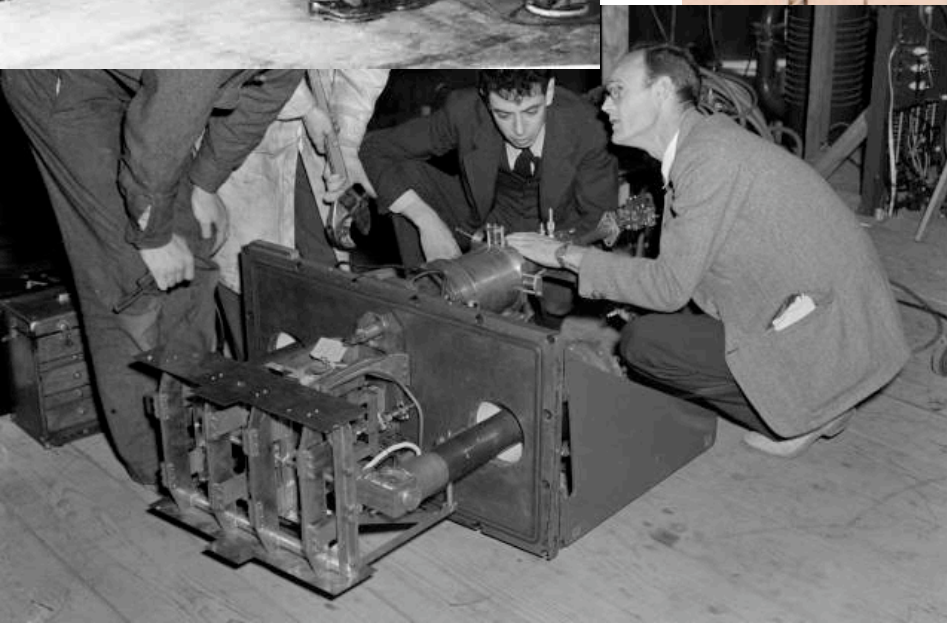
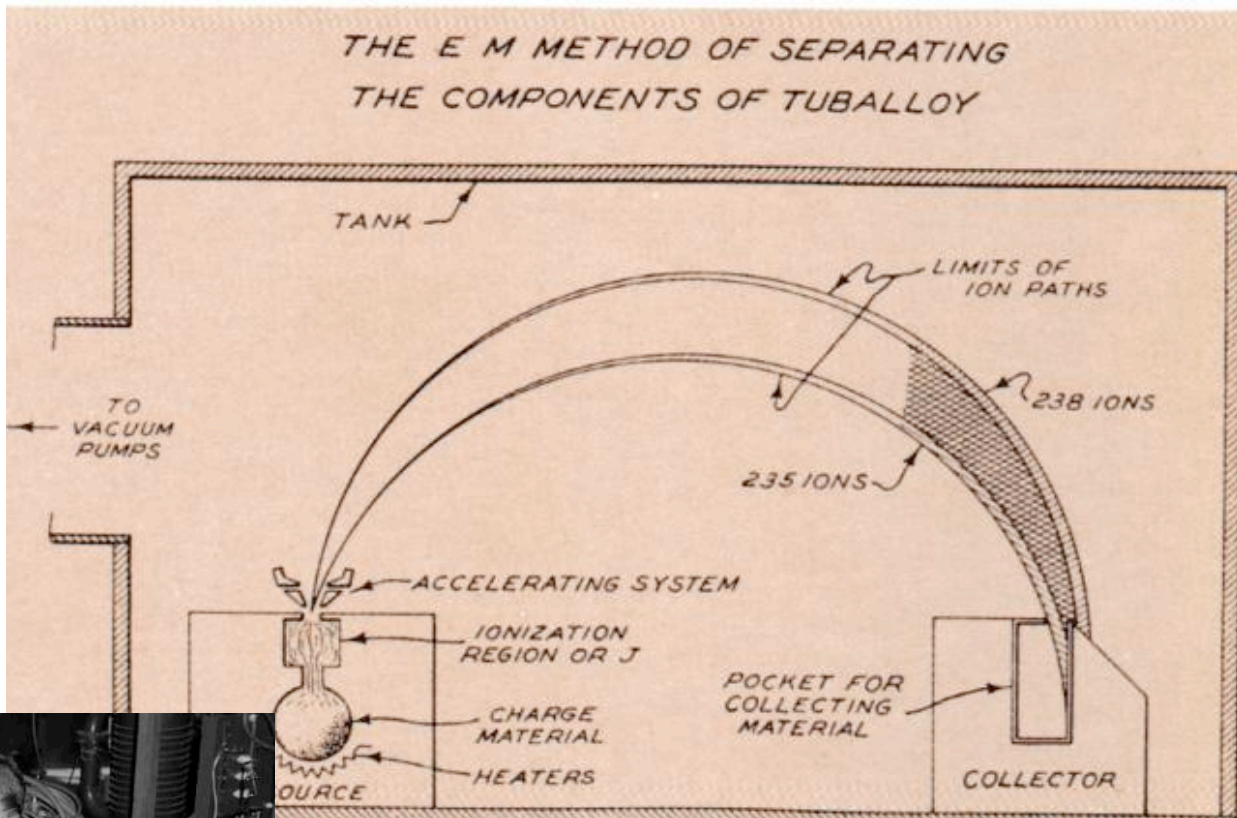
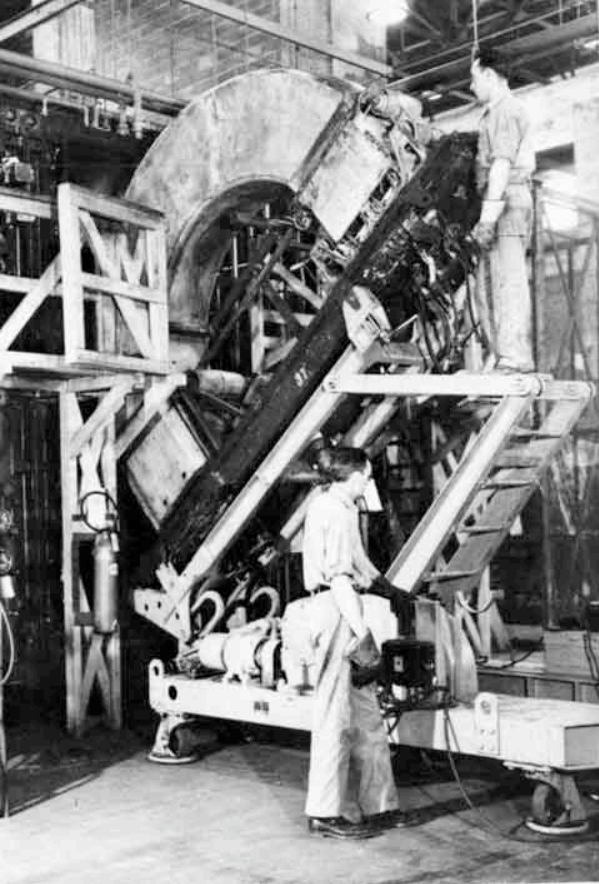


patent: Ernest Lawrence





Calutron



Medical Cyclotron

Slovak Cyclotron Center

Siemens Medical

