

Brief Explanation Of The Code In "2016/hw8/cyclotron.m"

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Abstract

In this brief article we explore how the cyclotron works and the implementation of the code in `matlab` to compute the energy in MeV the particle has acquired during the acceleration process, along with the number of semicircle trajectories it entered until it exits the device. Most students who tried to solve this problem in `matlab`, couldn't understand the hint and tried to solve the problem without having understood that the centers of the semicircles the particle runs on (2-dimensional imagery), fall on different points of the line defined by the distance between the north and south D's.

