

Initial Design of a 13 MeV Cyclotron for Positron Emission Tomography: Design of the Dee System, S. OH, M. YOON, Dept. Of Physics, Postech; J.S. CHAI, KCCH; J.W. KIM, RIKEN - A design study of the dee system for a 13 MeV cyclotron has been underway with a joint collaboration between POSTECH and Korea Cancer Center Hospital. The total number of magnet sectors is four, each with radial-ridged shape. The dees will be operated at the fourth-harmonic rf mode. In this presentation, we describe initial design parameters of this 13 MeV PET cyclotron as well as some features of the dee system.

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