FFAG 2007

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Non-Scaling FFAGs for Radio-Isotopes Production

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As an alternative to the use of a Superconducting Linac, we have explored at Brookhaven National Laboratory a complex made of a pair of Non-Scaling FFAGs for the acceleration of Ions of Uranium-238 for the production of Radio-Isotopes and esotic nuclear fragments. The beam power requirement is 400 kWatt at an energy of 400 MeV/u. The design of the FFAG accelerators is straightfoward and seems considerably less expensive than the full length of a Superconducting Linac. The major issue is the intensity, emittance and repetition rate of the ion source required. Operation ar 1 kHz, 10kHz and continuous mode are described.

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