

Prototype development of 352.2 MHz, 3 MeV RFQ structure.

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AbstractAbstract

[en] Raja Ramanna Centre for Advanced Technology, Indore is working on development of various components required for Indian Spallation Neutron Source. Radio Frequency Quadrupole (RFQ) is one of the most important component of front linac. RFQ has been designed to accelerate H^- particles from 50 keV to 3 MeV. To validate the physics design prototype fabrication of full length modulated vane type RFQ structure has been carried out. Considering availability of raw material eight joint type of assembly was selected. Individual module has four vanes and four flat wall type members. Fabrication feasibility study was carried out and accordingly engineering drawings were prepared. The most crucial part was machining of vane tip modulation. CAD models for RFQ vane tips were prepared using physics design data. Machining was carried out on a 3 axis CNC milling machine. Machine parameters were optimized to get required tolerances and surface finish. Stage wise dimensional inspection was carried out on CMM. Three modules each having length of 1150 mm were fabricated. A support structure having bead pull set up has been fabricated. The set up has a special feature that the bead can be moved in all the four quadrants in a single loop. Full length RFQ structure has been assembled on bead pull test set up and is

ready for field and frequency measurement. Paper would describe the experience gained in the prototype development process. (author)

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