

Design considerations for high energy buncher

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Normal conducting high energy (HE) buncher operating in cw mode is being built for the Heavy Ion Accelerator Facility (HIAF) at ANU. Time focusing is achieved by positioning of 150 MHz bunching cavity in the HE beam transport system. The cavity operates at $\beta=8\%$ and delivers peak effective voltage up to 190 kV. Two gap quarter wave resonator has been considered as preferred design option. In this talk main feature of the design and results of preliminary tests will be presented.