

Tuner Design for RIA

B. Rusnak, Lawrence Livermore Laboratory

Compensating microphonic-induced detuning on the superconducting structures of the RIA Driver Linac will play a more important role due to the light beam loading in the machine. Unlike recent SRF applications where the beam-loaded bandwidth is roughly comparable to or greater than the microphonic detuning window, RIA's beam-loading is a factor of 10-100 smaller. The impact of this light beam loading and some ways to compensate microphonic detuning shall be discussed.