

**High Power 2 MeV Linear Accelerator Design Characteristics,** H. DERUYTER, A.V. MISHIN, T. ROUMBANIS, R. SCHONBERG, SRC; R. MILLER, SLAC; S. FARRELL, RPC - Linear accelerator design characteristics for commercial applications are presented. The linac is supposed to deliver 2 MeV electron beam at 1 A peak current. Average current equal to 5 mA will provide average beam power of 10 kW. Linac constant gradient travelling wave section is designed to operate at 2998 MHz. Linac RF length is only 0.37 m, outline dimensions of the linac are 0.725 x 0.823 x 0.829 m<sup>3</sup>.