

**An Electrostatic Beam Splitter for the PSI 590 MeV-1 MW Proton Beam Line**, E. MARIANI, M. OLIVO, D. ROSSETTI, PSI - The 590 MeV proton Ringcyclotron was upgraded in several steps from 200 microA in the late eighties to the presently 1.5 mA to deliver a high intensity beam for new experiments in particle physics and for the spallation neutron source SINQ. The old beam splitter [1] originally designed to provide simultaneously a 200 microA proton beam to the meson production targets and up to 20 microA to the experimental and medical proton irradiation facilities had to be substantially upgraded as well in order to still peel-off 20 microA from the now 1.5 mA main proton beam. Constructional details of the new beam splitter and operational experience are presented.

- [1] M. Olivo, U. Rohrer, E. Steiner, IEEE Trans. Nucl. Sci., NS-28(3) 3094 (1981).