

To : Mrs. A. Barbier, MPS

From :

Please send me copy(ies) of report MPS/SR-Note 69-11 by
H.H. Umstätter

ABSTRACT OF REPORT

THE MINIMUM LENGTH AND SHAPE OF PROTON BUNCHES AT
TRANSITION AT HIGH AND LOW BEAM INTENSITY

(MPS/SR-Note 69-11)

H. H. Umstätter

The minimum length of proton bunches at transition energy at low and high beam intensity is a source of information on longitudinal space charge forces. The observation is complicated by bandwidth limitations and by distortions. Some of the most detailed signals obtained with the wide band pick-up station and a filter are reproduced and discussed. At high beam intensity of 1.62×10^{12} protons a bunch length of 6 nsec has been observed as compared with 4 - 4.5 nsec at low intensity 0.30×10^{12} protons.

This report will be available shortly to those interested. Please fill in slip above and return to Mrs. A. Barbier.

Distribution (of abstract)

MPS, SI and ISR Scientific Staff