

BNL-103915-2014-TECH AGS.SN35;BNL-103915-2014-IR

Linear Coupling on Flattop. Beam-induced Signal on RF Gaps

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September 1973

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U.S. Department of Energy

USDOE Office of Science (SC)

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NO.35 Blumbing AGS Studies (1300-1600) 9/4/73 by E. RAKA The first part of this period was used to portine measurements of the linear coupling present on the 28 Bei flut top by stimulating the normal mode pequencies. In partialar the high field turning qualingules (H&V) whe set at old values (i.e. from 4/3/73) and measurements were made at the different mormal mode pequences. additional measurements who made with the present operational quadrupole unents but at 1030 msec. The behavoir was somewhat different Than that ofserved at 730 msec. The second part of the phil was devoted to observations of the beam inclined signal present on the 18 gaps during injection. - his was done with larly suntilioned To blam control (\$200, sec from injection) and late switch over at 2 msle. from injection. For the latter last one remained on the starting oscillator during this Time with a slope of ~ 18 Kc/msa. The intensity was less than 10% lower than with landy switch over. It appears that most if not all the modulation present on the gap signal is blam induced and that there is an intensity threshold in the meighborhood of a 2x10. The affect

of the low level is septem is secondary in producing the obstived signal