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National Laboratory

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Tune AGS

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Training Studies (0-6; 8/29/73)

Participants: Raka, Gill, Herrera

Purpose: To tune A6S and gain intensity

Conditions:

- 1) Beam intensity was very erratic due to r.f. wiggling in Tank seven of Linac.
- 2) Max Linac current about 40 ma.

Results and Comments

- 1) Equilibrium orbits were taken at injection time (60 ms after T_0)
Horizontal $\approx \pm 6$ mm.
Vertical $\approx \pm 2$ mm.
- 2) Above orbits were observed with 17 horizontal and 13 vertical electrodes.
- 3) We tried M. Bartons harmonic corrections but the beam was too erratic. No success.
- 4) Injection and multipole correctors were tuned.
- 5) Injection r.f. was tuned.
- 6) We observed a maximum intensity of 5.7×10^{12} p/p with many > 5 , but erratic.
- 7) New p.u.e.'s and computer interface should be completed.

J. Herrera 8/31/73