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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  $5.7 \times 10^{12}$  p/p with many  $> 5$ , but erratic.
- 7) New p.u.e.'s and computer interface should be completed.

J. Herrera 8/31/73