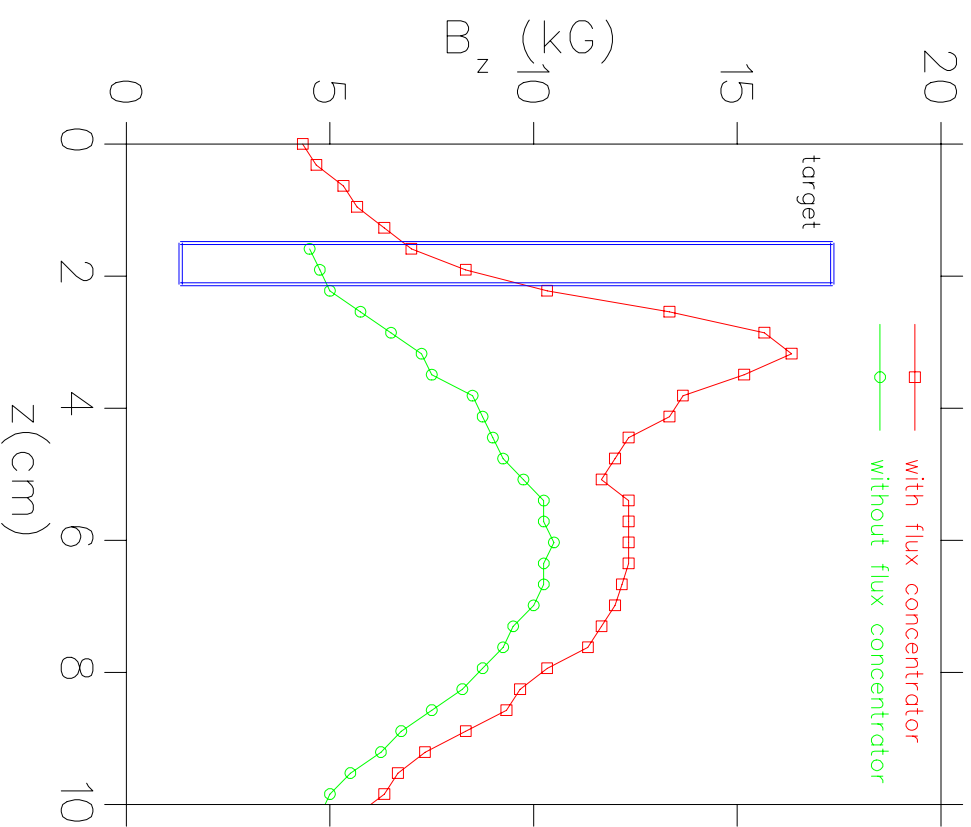


CESR STATUS

- Superconducting quadrupole status
 - Instability of chopper power supplies for skew quads and steerings resolved
 - All 12 magnets run at well above lattice requirements for ~ 1 shift with CLEO solenoid on
 - Quenches have occurred with
 - ◇ Line glitch
 - ◇ Powering quad bus on and/or off
 - Quench recovery time $< 1/2$ hour.
- RF
 - All cavities cold and processed to $> 100\text{kW}$
 - W² neutral position
 - ◇ Resonant frequency very near operating value and cavity is floppy and subject to microphonic noise
 - ◇ In the past - reduce cryostat pressure to shift neutral position
 - ◇ Increased load on refrigerator makes that difficult

POSITRON CONVERTER

- Pulsed solenoid lens
 - Flux concentrator maximizes field immediately beyond target
 - Peak $B_z \sim 20\text{kG}$
 - $I \sim 4\text{kA}$
 - 7.06mm tungsten-iron target
- First measurements indicate $> X2$ accelerated positron beam
 - (Mitsubishi klystrons yield higher energy electron beam on target)



Friday evening - October 5

- Startup
 - SCIR Skew quad and steering chopper power supply control circuit failed due to ground fault trip in SK 2E
 - No sen nmr for dipole
 - Pre shutdown save set
 - ◇ Positrons to IR as indicated by CLEO radiation monitors
 - High β startup optics
 - ◇ Signal on BPMs but no radiation
 - Switch to electrons
 - Dipole power supply scalar readback flashed to zero

COMMISSIONING PLAN

- Alignment of IR quads is critical
- 0.5mm vertical displacement of Q01 \rightarrow 22mm orbit error
- Startup optics
 - $\beta^* \sim 10\text{m}$
 - $k_{Q1} = -0.1$ (5% nominal)
- Procedure
 - Store beam in high β startup optics
 - Align quadrupoles with remote positioning system
 - Dump beam and adjust quad rails
 - Load 4s luminosity optics and repeat
 - Load 3s optics and begin HEP tuneup

Υ RESONANCE RUN PLAN

	Υ_{3S}	Υ_{1S}	Υ_{2S}	Follow up
Beam Energy [GeV]	5.175	4.7	5.	?
Luminosity [pb ⁻¹ /day]	33	23	25	?
Start date	16-Nov-01	1-Feb-02	1-May-02	25-Jun-02
Total [fb ⁻¹]	1.2	1.2	0.7	?

- Machine studies ~ 2 days/week
 - Prepare 1s optics
 - Low energy (1.9GeV) injection, instabilities, optics ...
 - Round beam test at 1.9GeV
- Machine down 1 shift/week