

(*What a group both the CAD acc physics spinners and the CNI gang!*)

Where are we?

0) taking the source for granted, stable, >70% polarization and plenty of intensity (>1.5e11 at AGS extraction achieved early on).

1) The “dead-reckoned” i.e. without using polarization (except the Booster measured at AGS injection) gave 20% at the RHIC injection field of $g\gamma\gamma=46.5$.

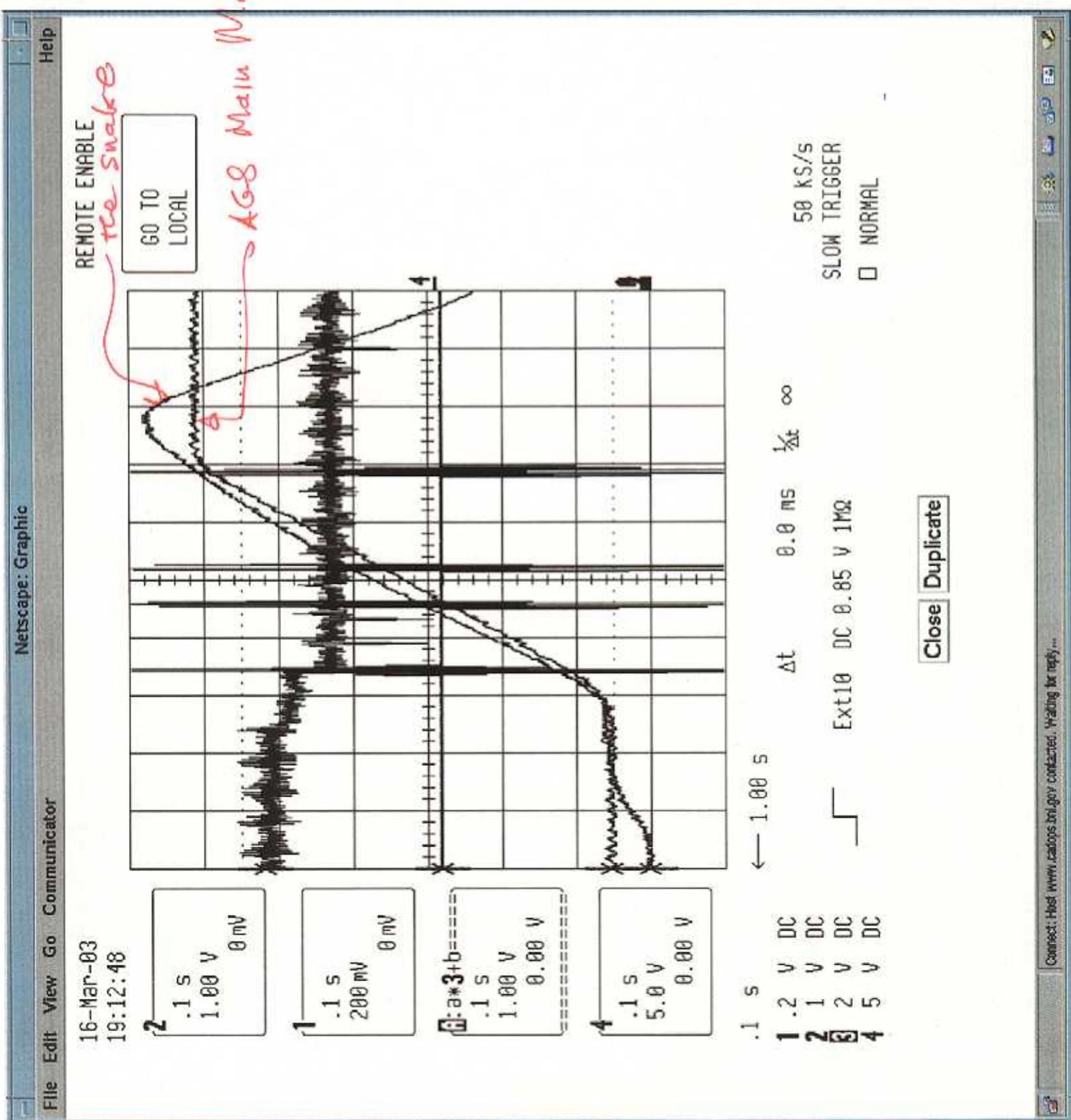
Involves predicting the timing of the rf dipole excitations, setting up the tune and chromaticity at each of these looking at the beam, flattening the AGS orbit (8th and 9th harmonics), setting up the snake to its nominal 5% strength, tuning the transverse emittances as small as possible.

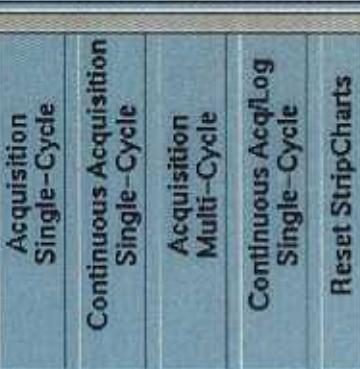
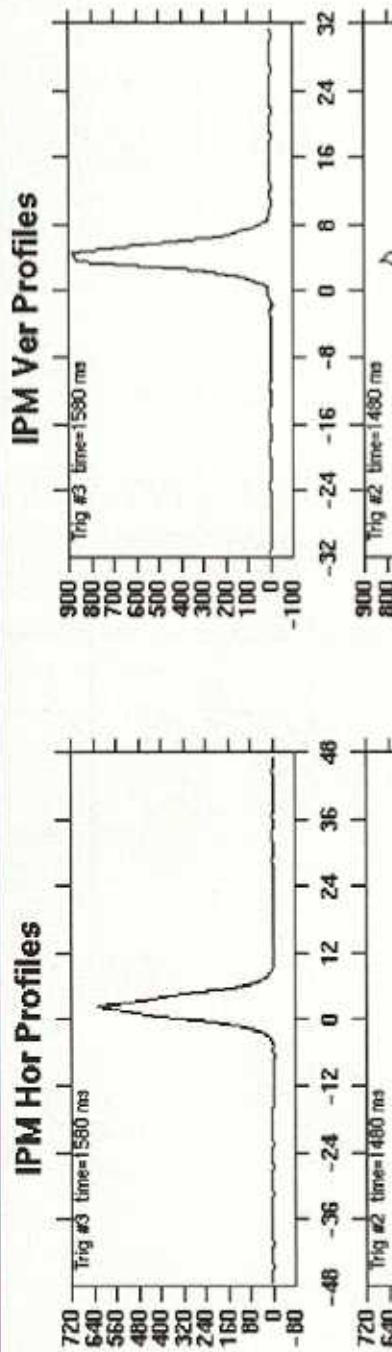
2) 1.5 weeks of “tuning” has raised the polarization at 46.5 to about 40%.

- pics:
 - a) available time
 - b) rf dipole timing 12+ easy, 36+ hard; dead reckoned timing ok.
 - c)beam size (IPM)
 - vert 10pi -> 15pi (mmmr) normalized emittance
 - hori 20pi -> 30pi
 - d) snake strength optimization. (to seriously consider doing this due to the speed of the CNI)
 - e) rf dipole setups
 - drive amp and tune separation (beam vs the drive frequency)

3) Plans:

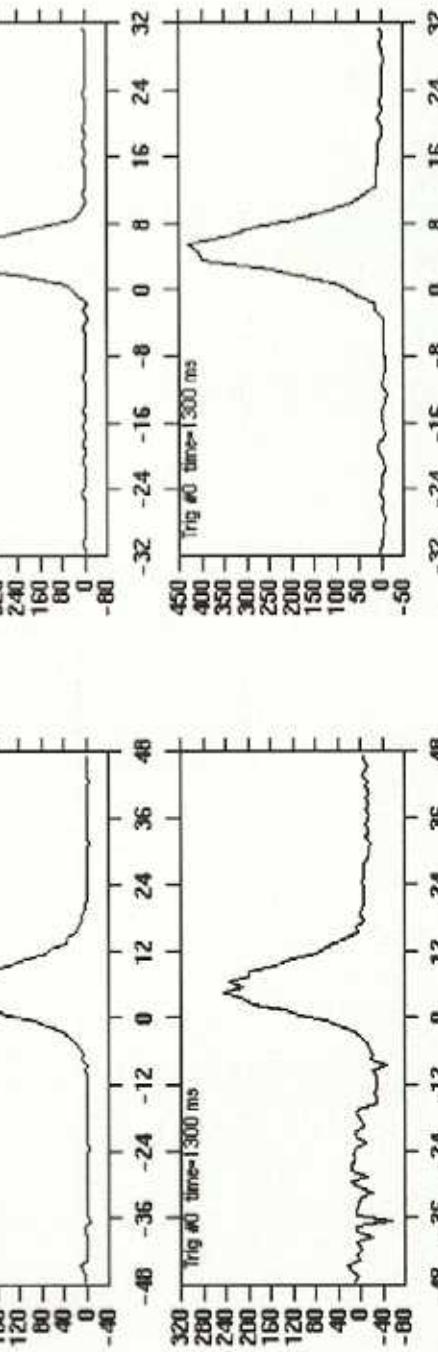
- a) multiple bunches in AGS, for CNI “up the ramp” commissioning.
- b) parallel development of other AGS setups ($g\gamma\gamma = 12.5$ magnetic porch etc.)
 - (possible now that RHIC AU-d is in final configuration)
- c) lots of parameters yet to scan. Where do we lose the polarization? And then, can we get it back?





Sun Mar 16 09:01:50 2024

San Mar 16 89 A1-50 2003



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Connect: Host www.catups.com/categories, waiting for reply...

$$\frac{7110}{7020} = \frac{0.990}{0.990}$$

16 March 02 00:50 Alvar

Scene we need went up a ~~steep~~ ~~steep~~ scan @ 36°
of path, too late! (the ~~steep~~ ~~steep~~ ground survey!)

0 +

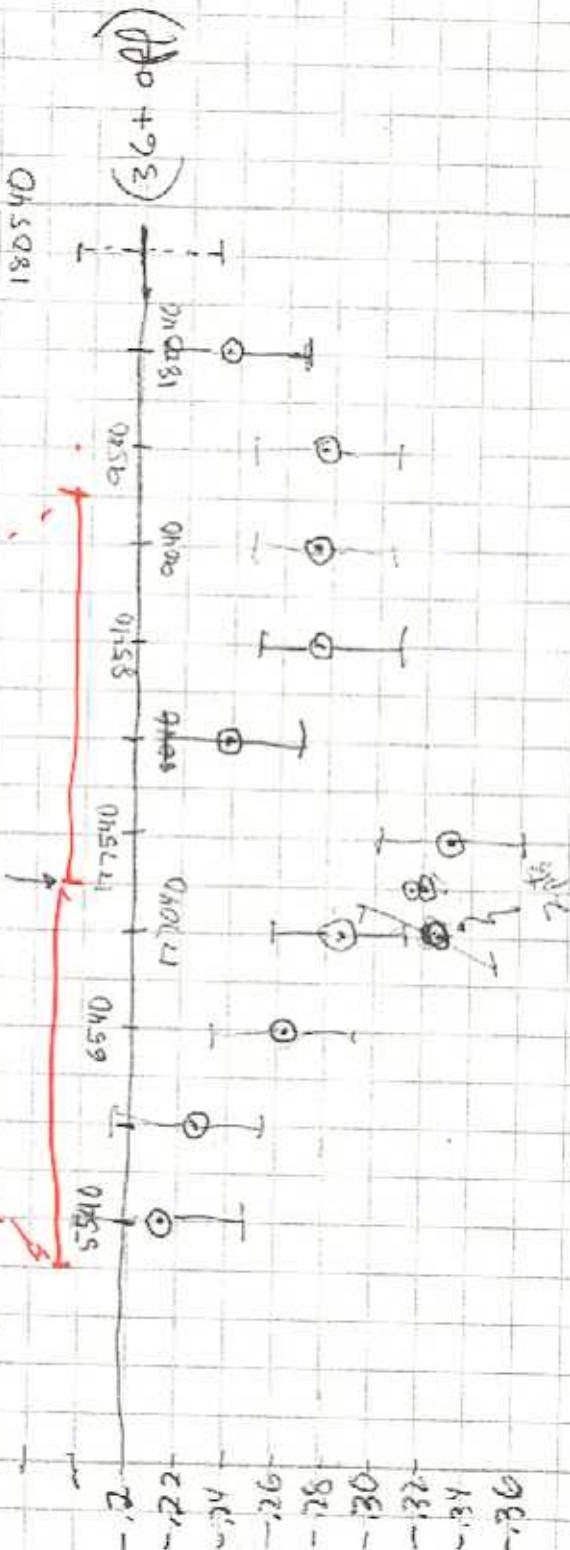
-1 -

36° forward scan

9.500)

to close.

9)



- 36° : true & below due 8.713 - 6.7165
 a) 0.250 + off ch @ 172270 b) based on Tilt + levels (45°) (15.8mm)
 ground survey at 0.250 c) 36 - true to base line approx 5.682 + 8.687
 c) only 5m @ 36° - 400 of cam up more software 8.587

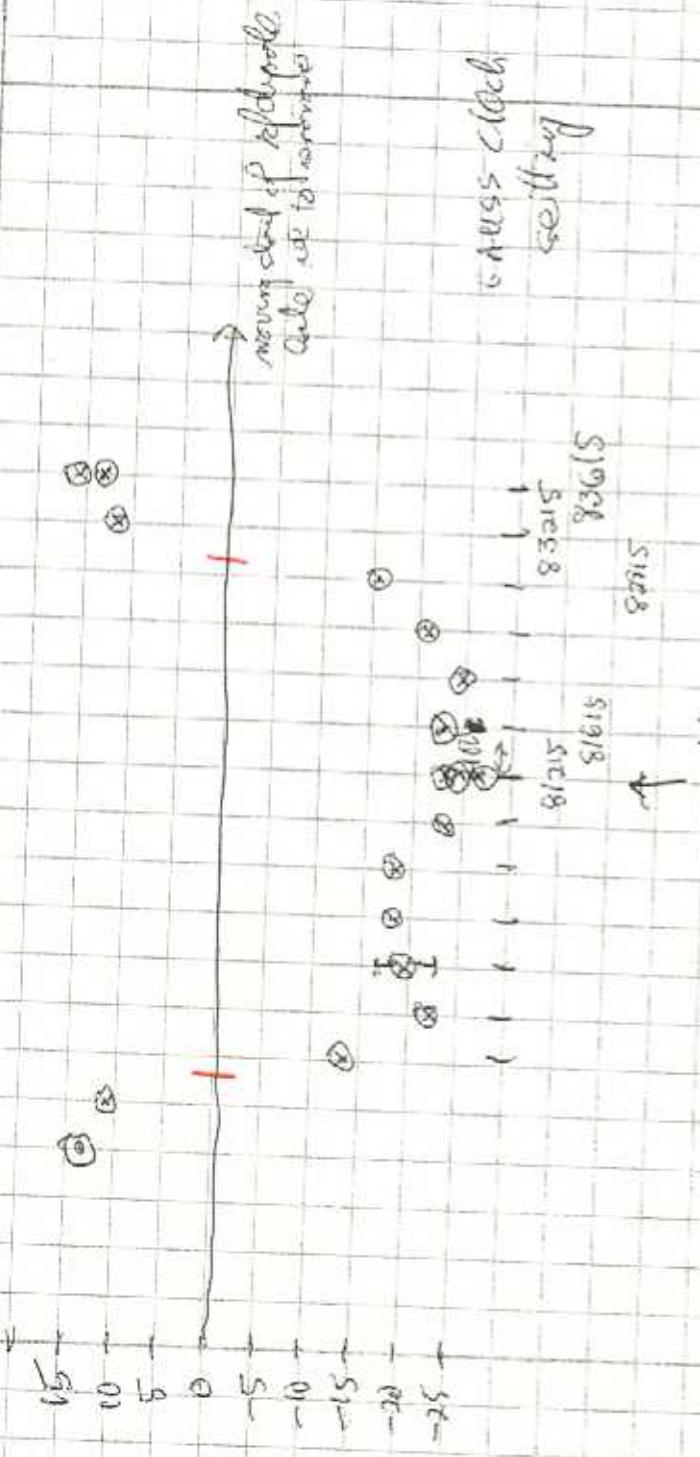
$$8.587$$

26 | 14 March 03

Miles (Christopher)

Tunisia Scan Left

$$G\delta = (\partial)$$



easy - it fits

start here



127

Answer

24

1

177805

364 Travers (177025 as outfitting)
land of Rue now

Thu Mar 13 13:34:50 - Mon Mar 17 18:23:57

Window Event

the last weekend

