

ATF Week Summary

12/4/2000 - 12/9/2000

12/4(Mon)

17:30 - Beam on

RF freq. change 714.002 -> 714.007MHz(+5kHz)

DR COD, η , skew correction

EXT η correction

22:15 - ODR monitor study

γ , reflected photon vs. target position

12/5(Tue)

9:00 - DR injection tuning

10:37 - AC Braker trip, Master OSC trouble

13:00 - 1.0×10^{10} at Extraction

14:20 - Laser Wire study

17:00 - DR η , skew correction again.

Found DCCT reading jump -> replaced to Kudo's
(Bergoz)

12/6(Wed)

(total) $\sigma_y^{LW} = 11.8\mu\text{m} \Rightarrow \sigma_y = 9.5\mu\text{m}$ $\epsilon_y = 1.8 \times 10^{-11}$

small intensity dependence

12:00 - Ext wire scanner meas.

Int.	ϵ_x	ϵ_y
0.95×10^{10}	2.12×10^{-9}	3.9×10^{-11}
0.7	1.82	3.3
0.4	1.46	2.7
0.2	1.32	2.2

17:00 - Pol e^+ , optics study

12/7(Thu)

found minimum beam size(MS6X)

with 1.01% fudge

9:00 - SR monitor study(2nd mirror stone support)

14:30 - DR skew off : σ_y meas.(big σ_y)

ϵ_y at 2mA	skew ON	skew OFF
Laser Wire at ~2mA	2.2×10^{-11}	11.1×10^{-11}
SR	8.0×10^{-11}	11.4×10^{-11}
EXT	2.7×10^{-11}	$\sim 6.0 \times 10^{-11}$

12/8(Fri)

3:20 - Double kicker study(optics purterbation check)

9:00 - Multi bunch BPM study

set up electronics, calibrations,

single bunch meas.

multi bunch meas.

22:35 - ϵ_y study

DR skew-Q tuning($17\mu\text{m} \rightarrow 13\mu\text{m}$ improved)

SR : ϵ_y at $2\text{mA} = 4.0 \times 10^{-11}$

1 EXT ϵ_y vs. DR RF voltage

Vc	Int.	ϵ_y vs. W.S.
0.2866	1.1×10^{10}	4.06×10^{-11}
MV		
	0.96	3.16
0.1396	1.0	2.53
0.0932	0.9	2.08
	0.55	1.70

EXT Wire shows strong dependent ϵ_y

12/9(Sat)

2:11 - Beam stop