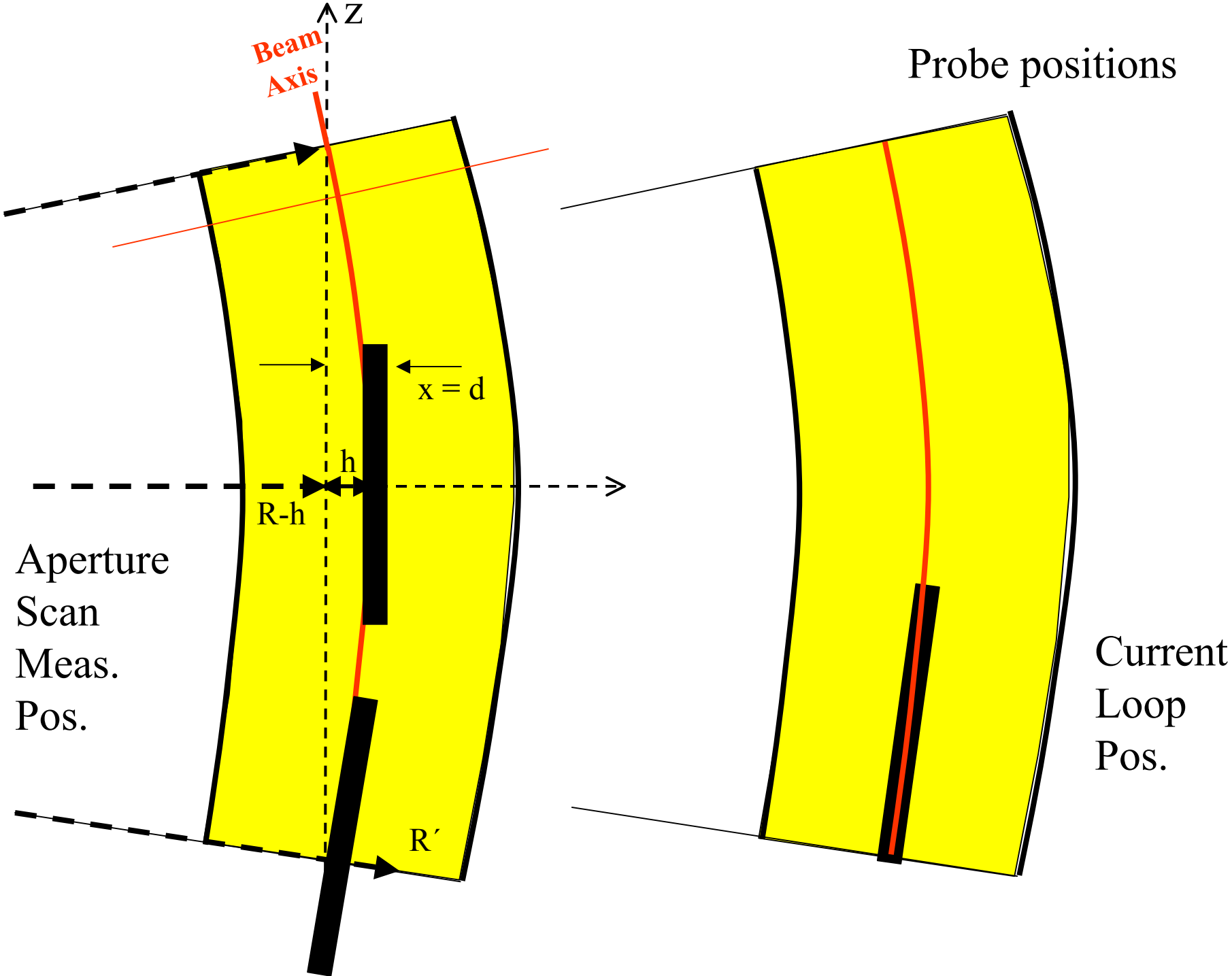

z
Beam
Axis
Probe positions
x = d
h
R-h
Aperture
Scan
Meas.
Pos.
R´
Current
Loop
Pos.

D10 Integral and Body Harmonics @110A

Integral

coefficients at Ref. Radius of 1"			
b0	10000	a0	0
b1	-719.3	a1	5.3
b2	-6.4	a2	1.5
b3	-0.4	a3	-0.4
b4	0.4	a4	-1.9
b5	0.7	a5	-0.1

Body

coefficients at Ref. Radius of 1"			
b0	10000.0	a0	0.0
b1	-714.3	a1	7.2
b2	-5.3	a2	1.3
b3	-0.5	a3	-0.5
b4	0.9	a4	-1.8
b5	0.6	a5	-0.5

F47 Integral and Body Harmonics @110A

Integral

coefficients at Ref. Radius of 1"			
b0	10000	a0	0
b1	557.6	a1	-2.2
b2	0.6	a2	-0.2
b3	0.8	a3	-1.9
b4	0.9	a4	2.2
b5	-0.9	a5	1.1

Body

coefficients at Ref. Radius of 1"			
b0	10000	a0	0
b1	564.1	a1	-2.5
b2	3.2	a2	-0.3
b3	2.2	a3	-2.2
b4	0.1	a4	2.2
b5	0.4	a5	1.7

Data

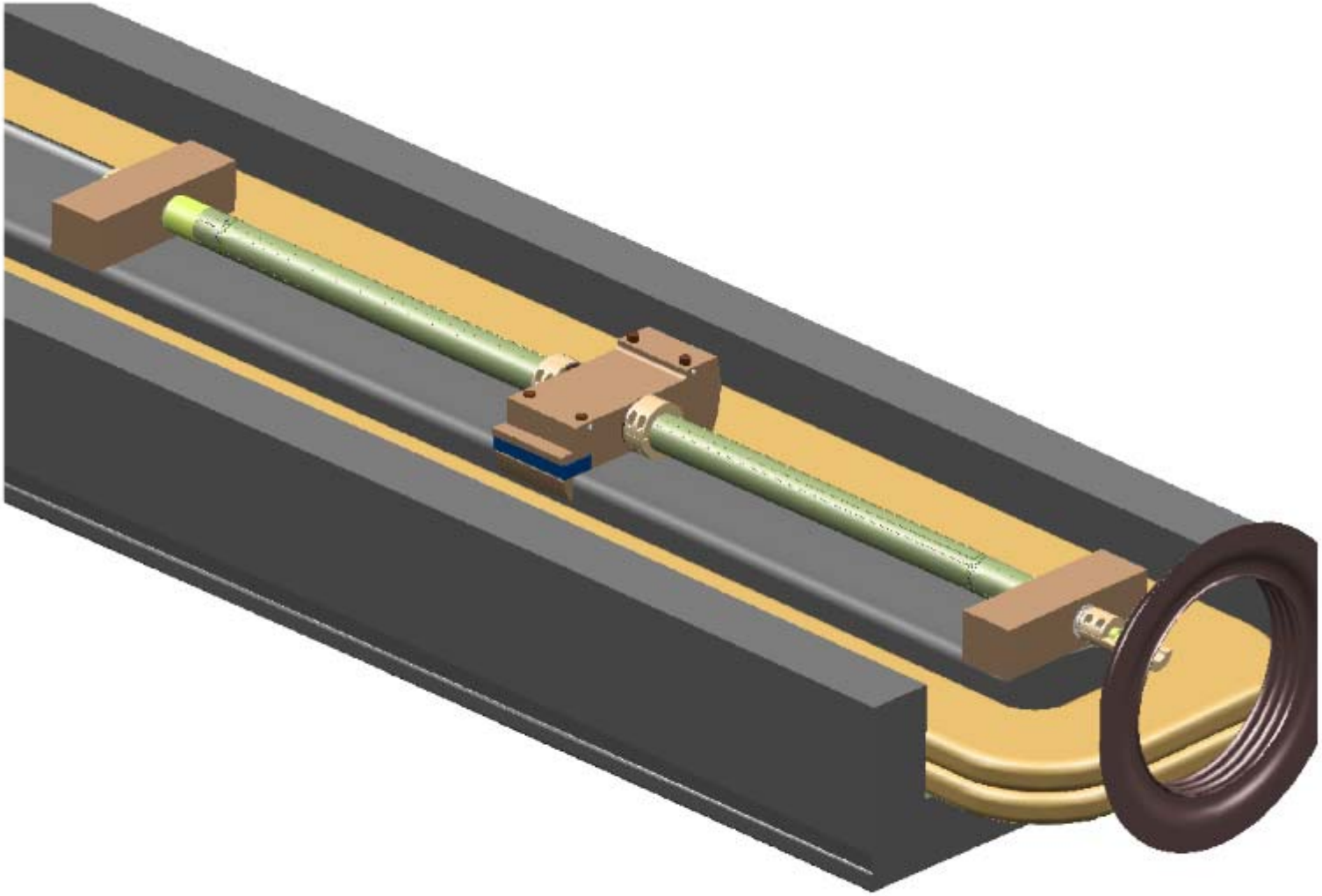
Data posted at

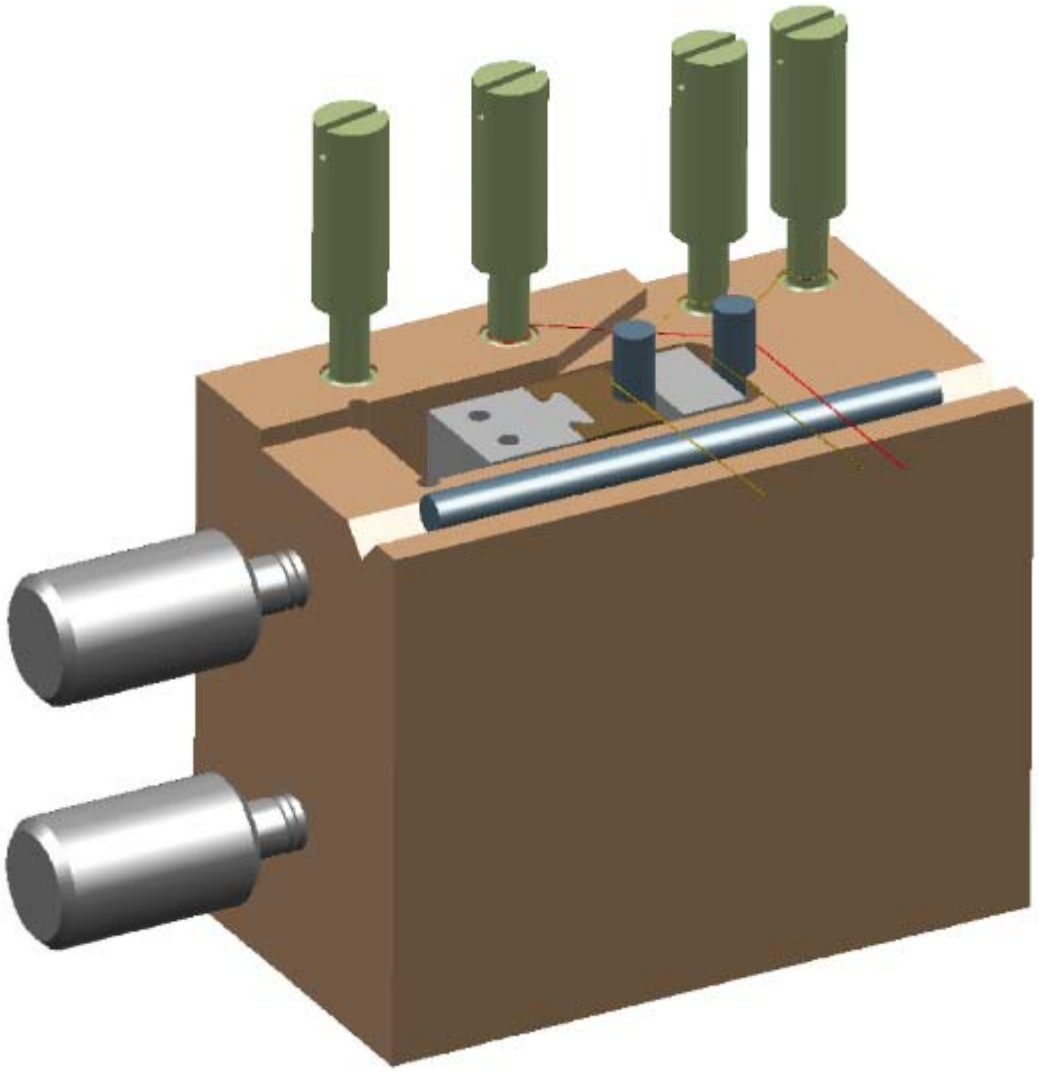
HTTP://wwwtsmtf.fnal.gov/~dimarco/Booster_D10.html
HTTP://wwwtsmtf.fnal.gov/~dimarco/Booster_F47.html

AC status

- Rotating coil fixtures drawings done, ready to be submitted to shop (should have parts in June)

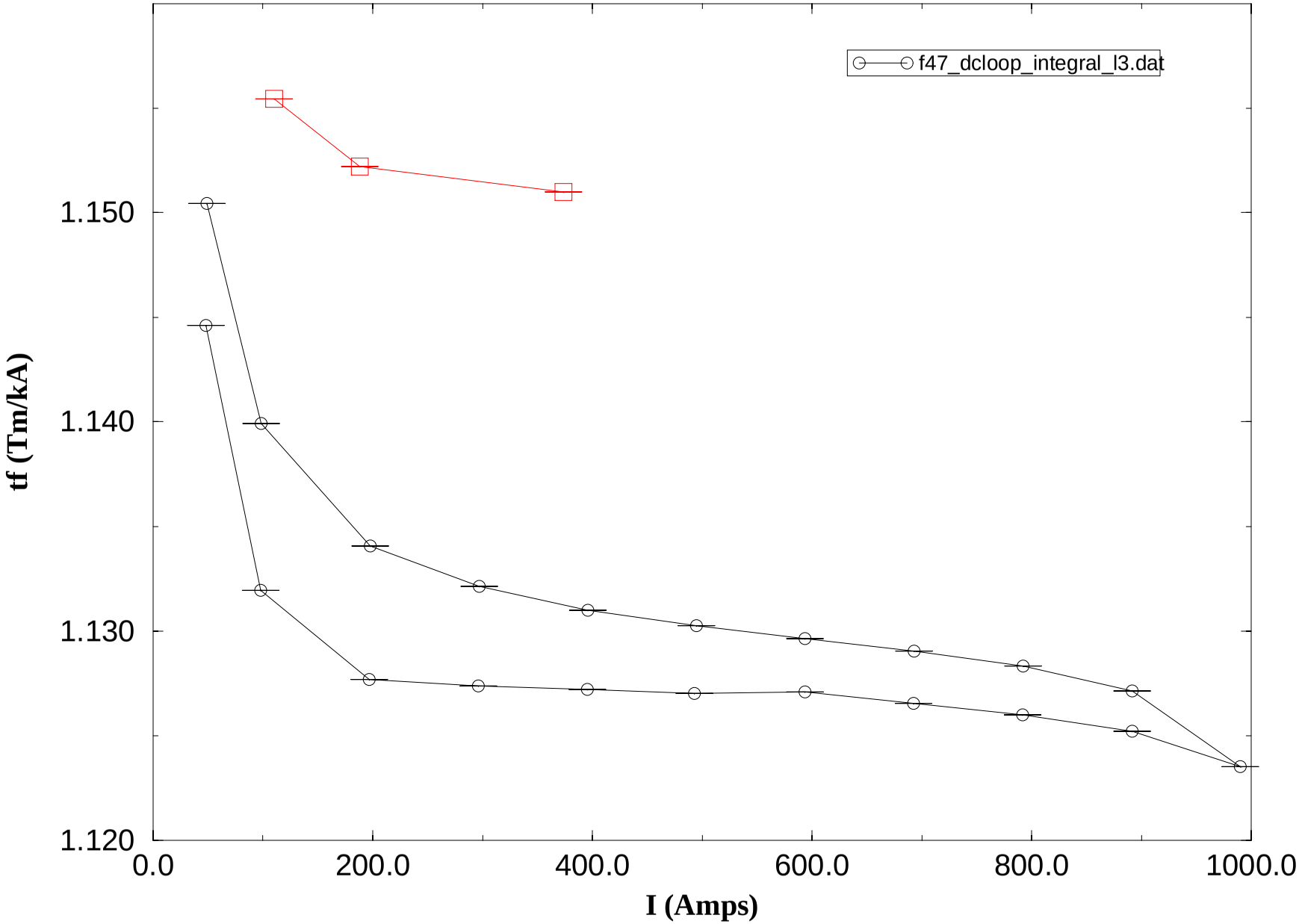
- Gradient SW drawings nearly complete.





tf vs I (Amps)

/usr/analysis/Booster/F47/mole/currentLoop/25Mar03



Wed Apr 23 16:47:24 CDT 2003

b1 vs I (Amps)

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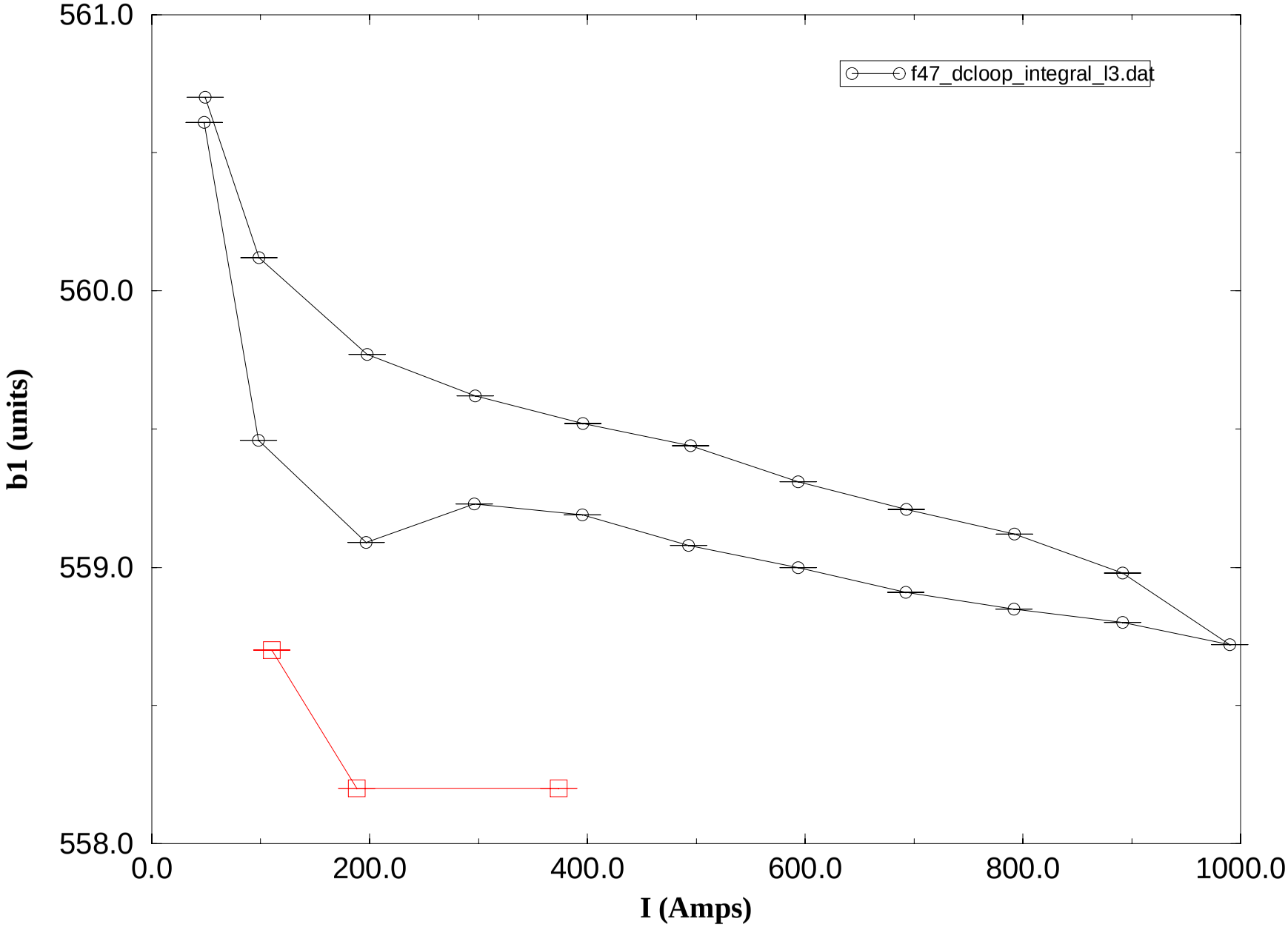

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b2 vs I (Amps)

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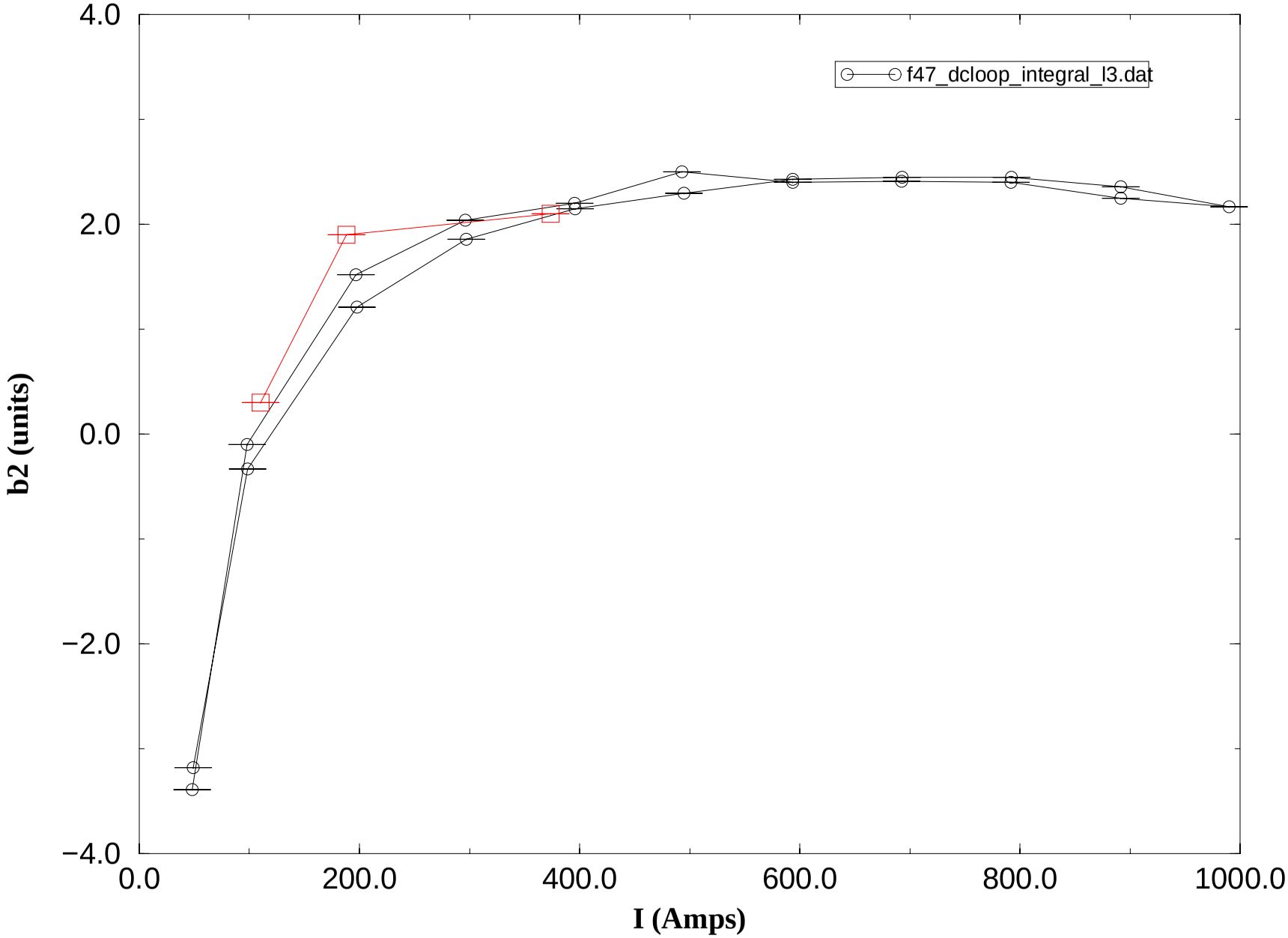

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a1 vs I (Amps)

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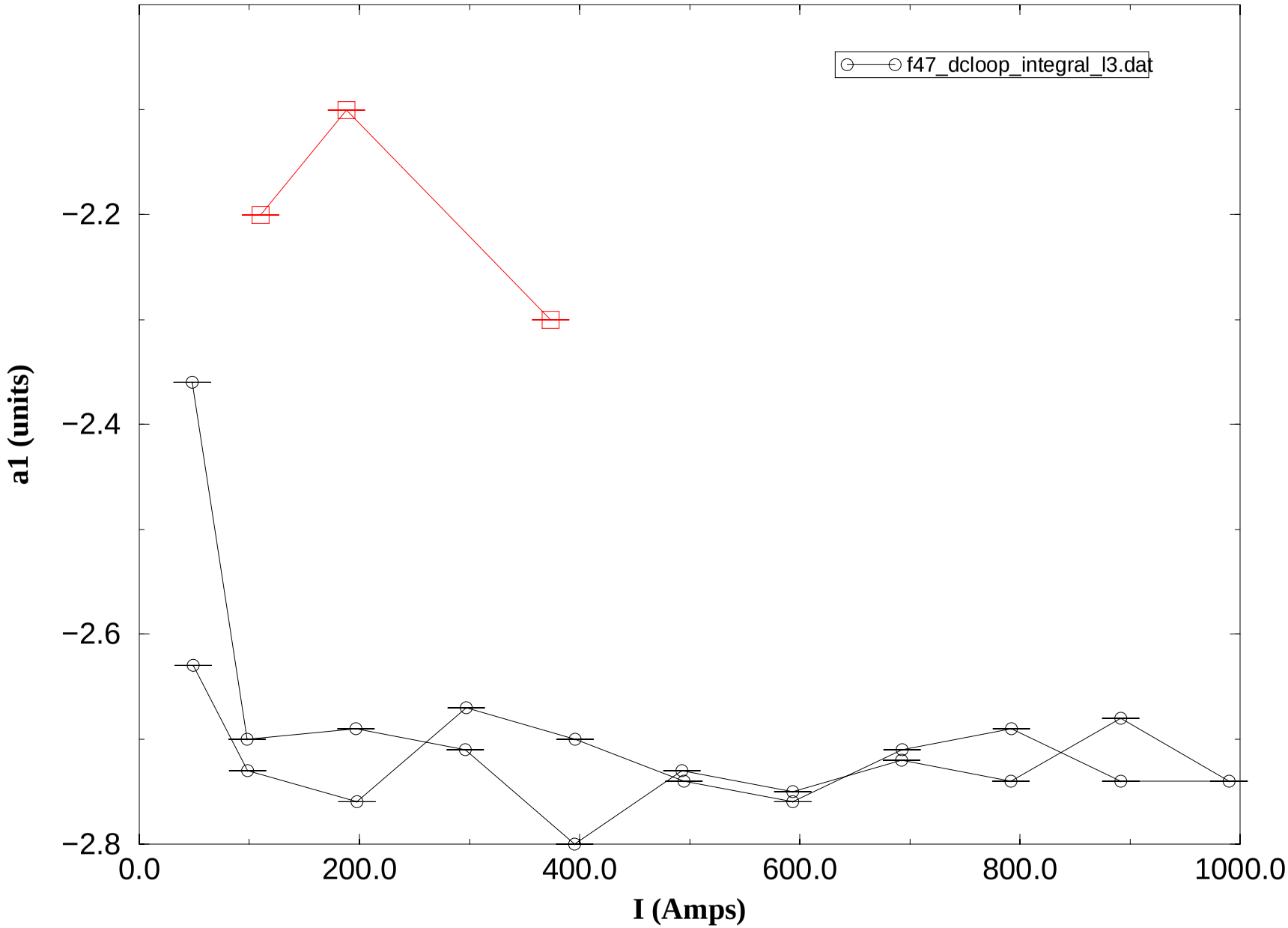

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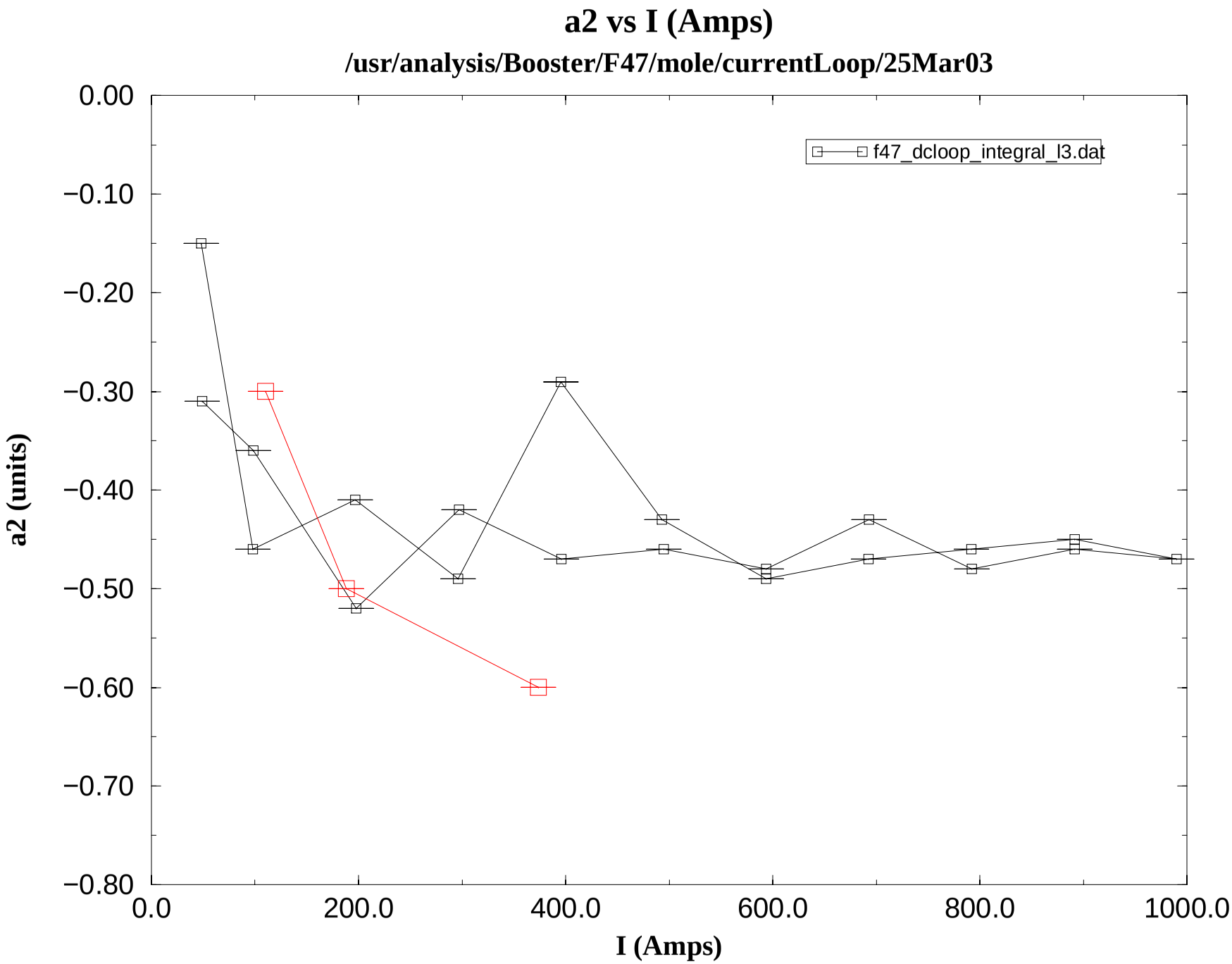

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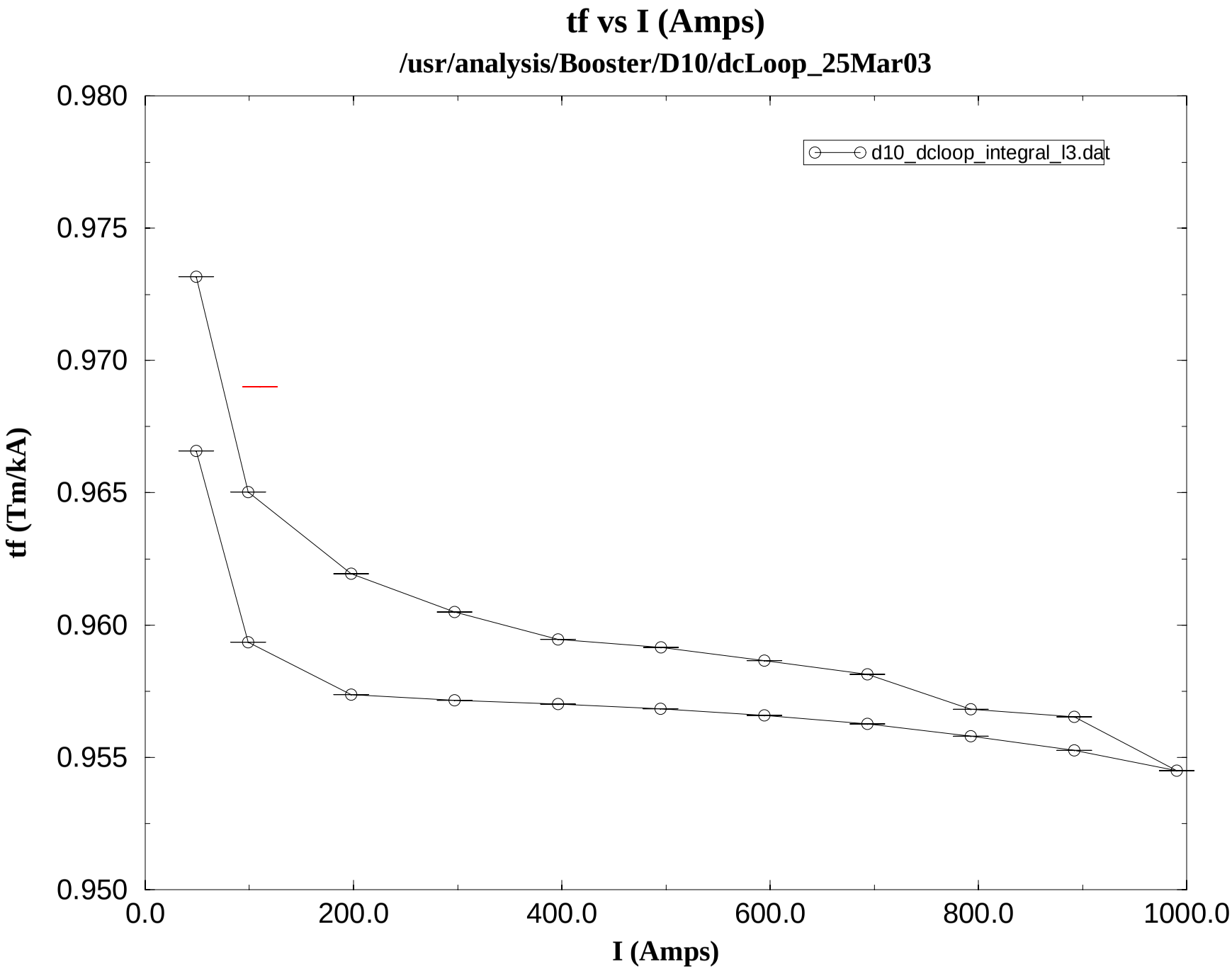
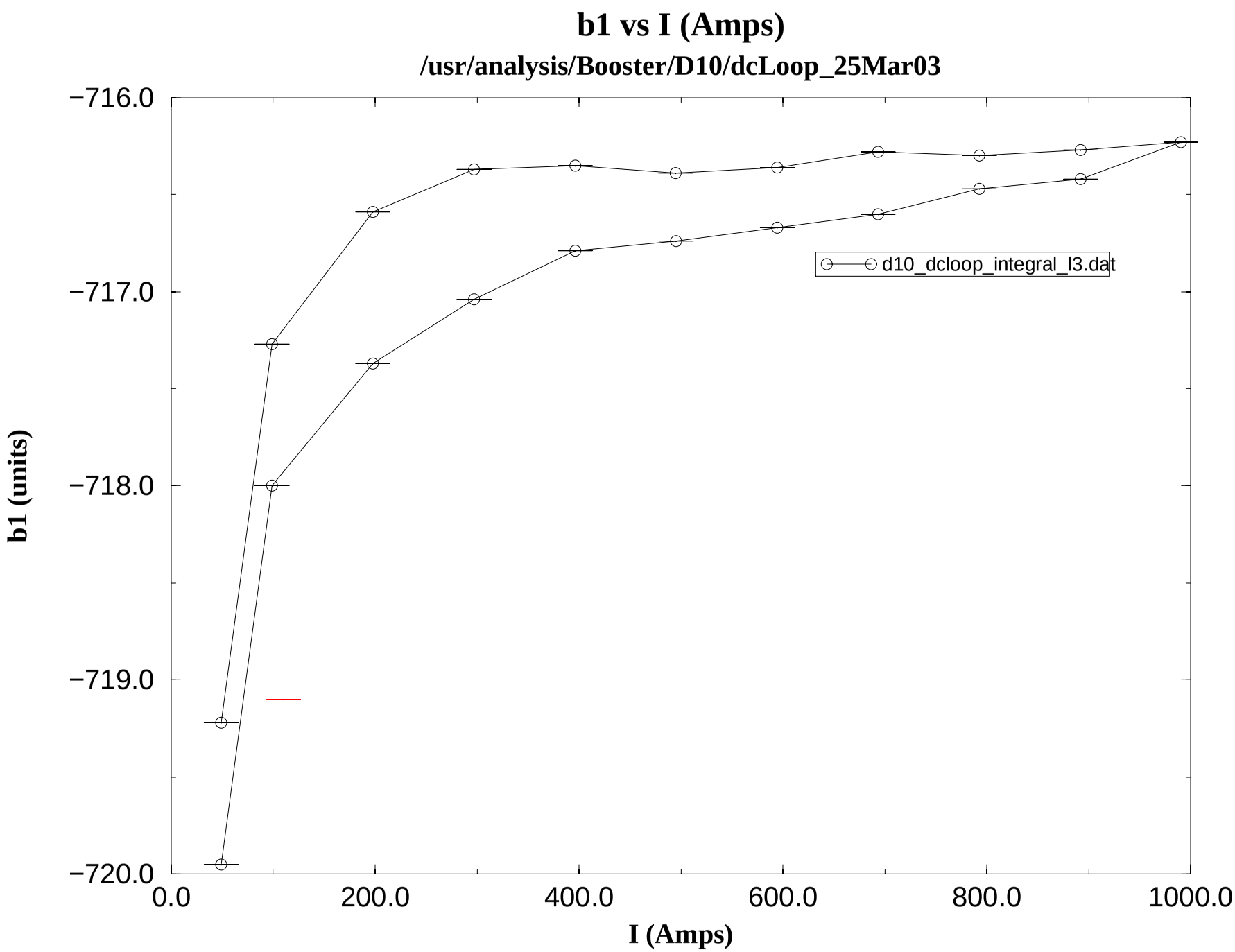


Mon Apr 28 13:40:46 CDT 2003



Mon Apr 28 14:01:18 CDT 2003

b2 vs I (Amps)

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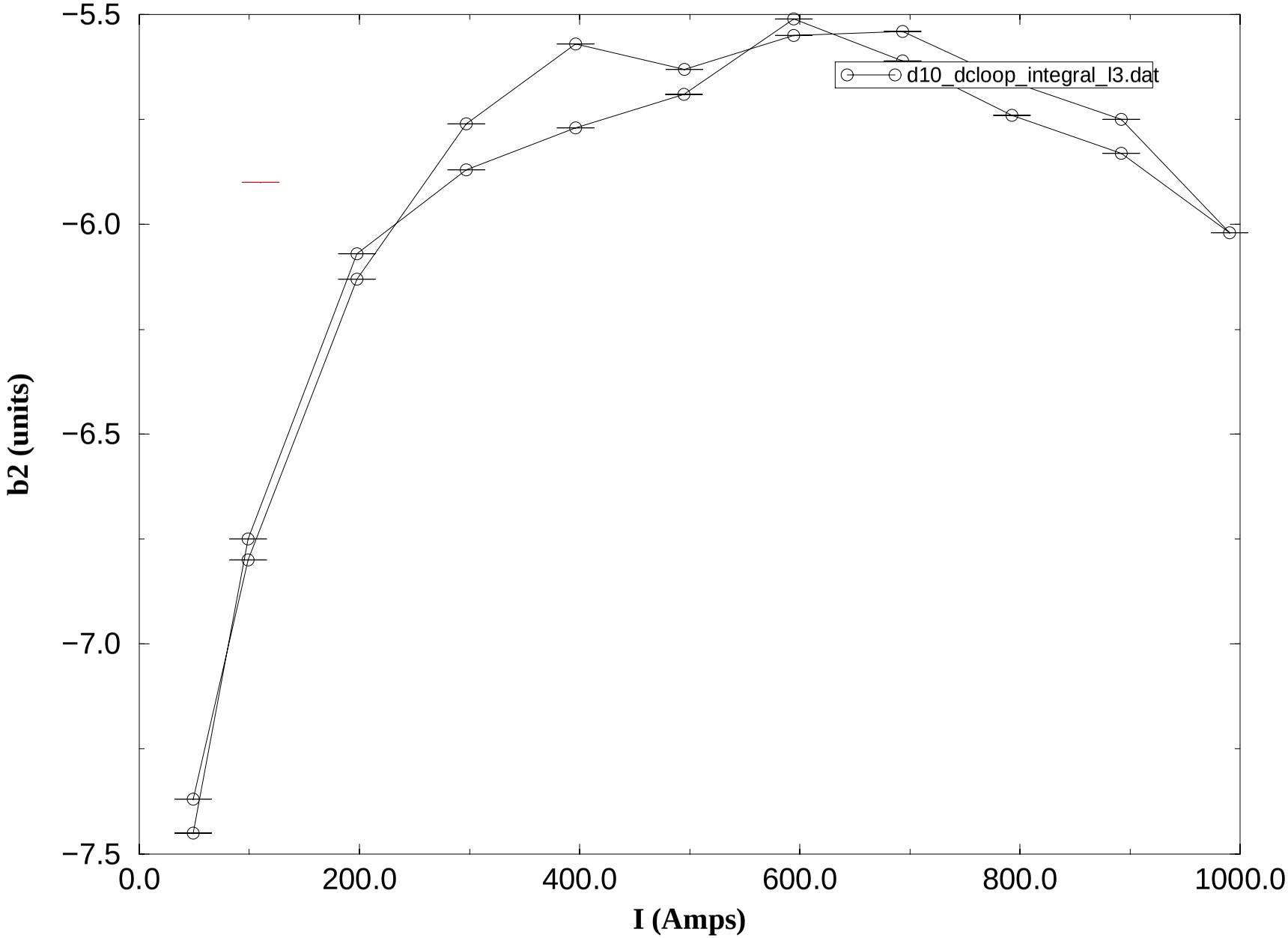

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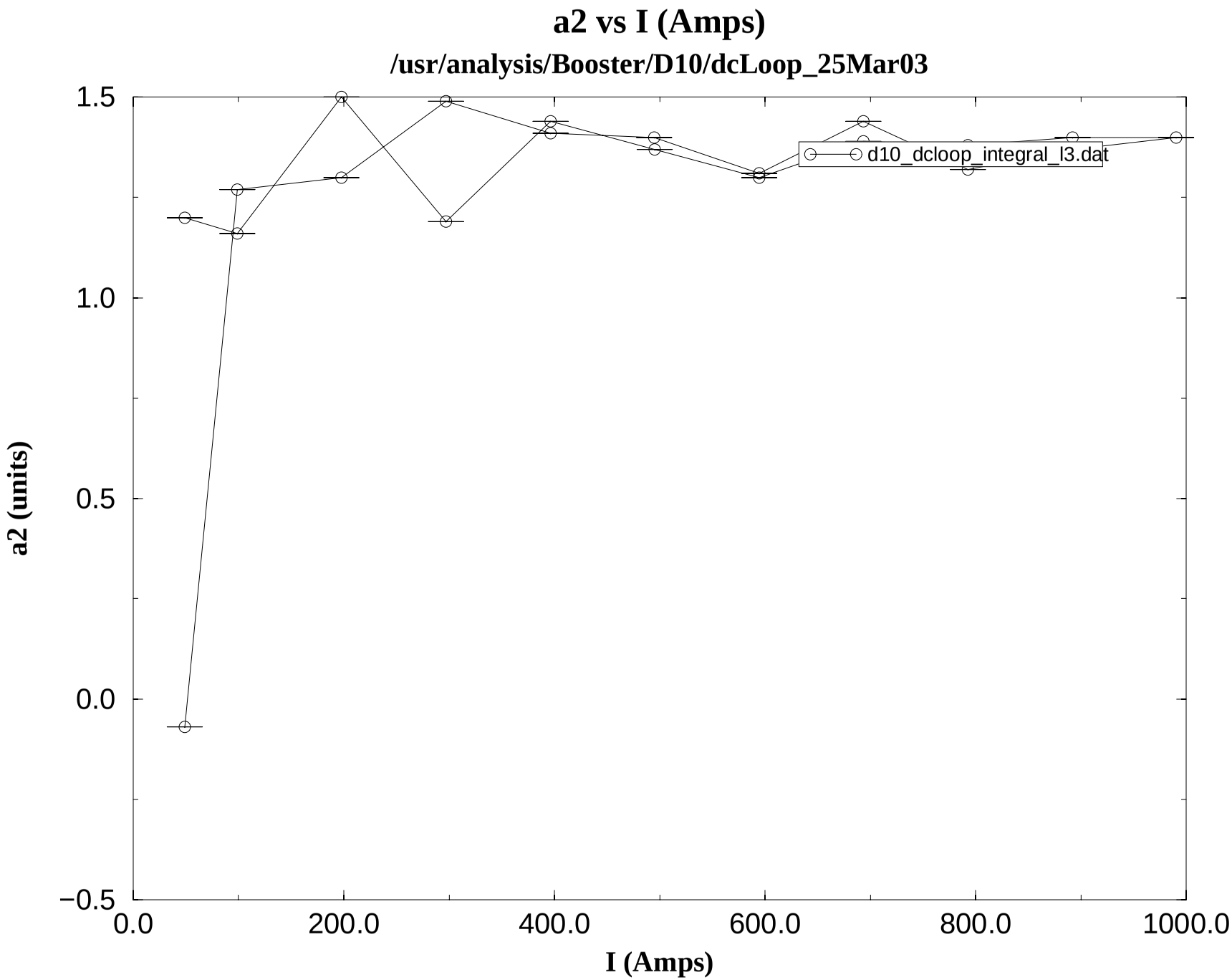

Mon Apr 28 14:00:18 CDT 2003

a1 vs I (Amps)

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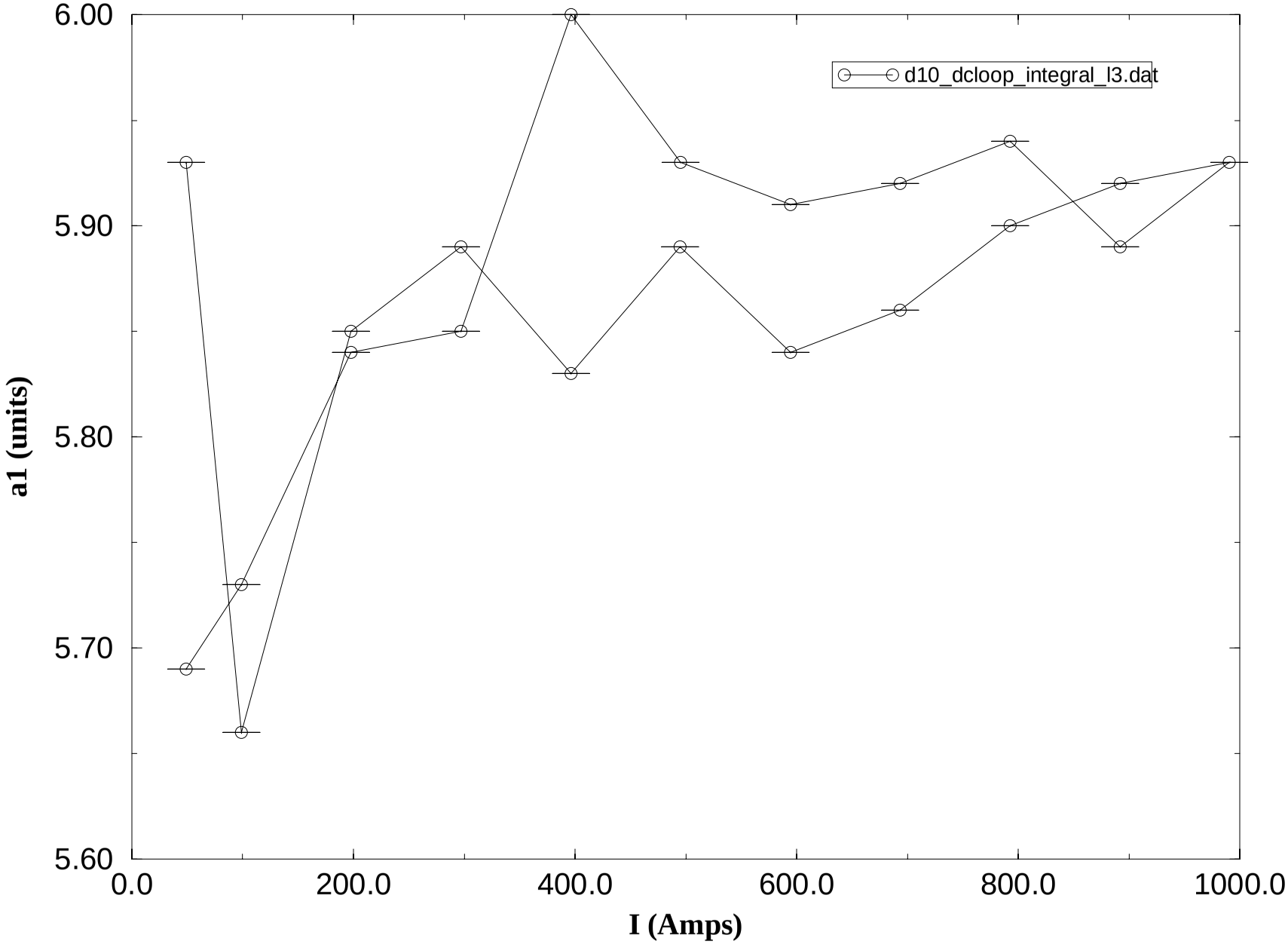

Mon Apr 28 13:59:55 CDT 2003