2003. 10. 10

20:51 4-4 E_s 34.5kV Power 22.0 MW

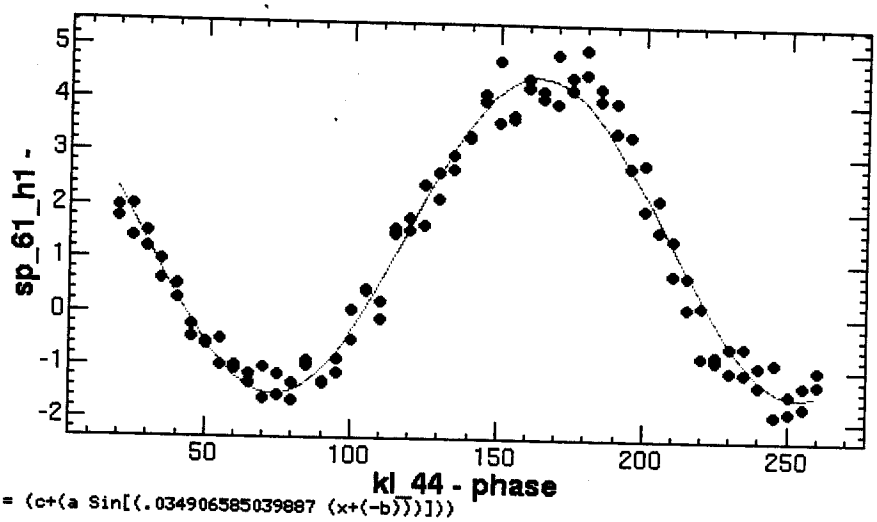
$\sqrt{P} = 4.69$

$a = 2.99194 \Rightarrow 30.36$ MV/m

File Edit Window 10/10/2003 21:01:15 Help

ChiSquare = 13.9304 Goodness = .48070

a = 2.99194 +/- .05614 b = 118.521 +/- .53570 c = 1.45646 +/- .04039



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

Hard Copy

21:03 E_s 33.0 kV Power 19.4 MW $\sqrt{P} = 4.40$

Energy FB ON → OFF

$a = 3.02301 \Rightarrow 30.7$ MV/m

$b = 129.854$

$C = 2.11$.

KLY 4-4 Phase 129.8° Set.

Energy FB ON → OFF

Es 33kV Power 19.4MW $\sqrt{P} = 4.40$

$a = 3.23$ $b = 132.1°$

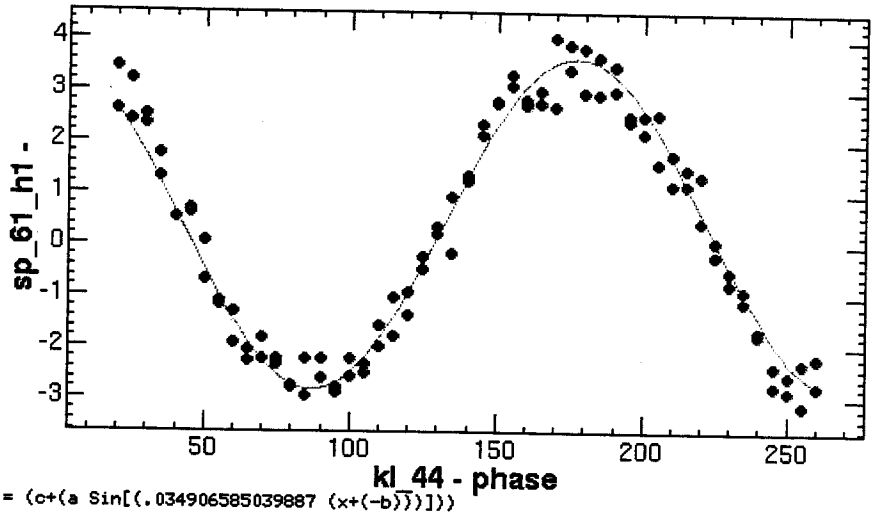
⇓

32.8 MV/m

File Edit Window 10/10/2003 21:26:56 Help

ChiSquare = 16.0700 Goodness = .48070

a = 3.23414 +/- .06139 b = 132.136 +/- .52240 c = .40859 +/- .04338



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

Hard Copy

21:31 Es 31.5kV Power 16.9 MW $\sqrt{P} = 4.1$

予備 $a = 3.17$ $b = -26.772$ $C = 0.33$

KLY 4-4 Phase 153.2°

Energy FB ON → OFF

本測定 $a = 2.61233$ $b = -34.7771$ $C = -0.628405$

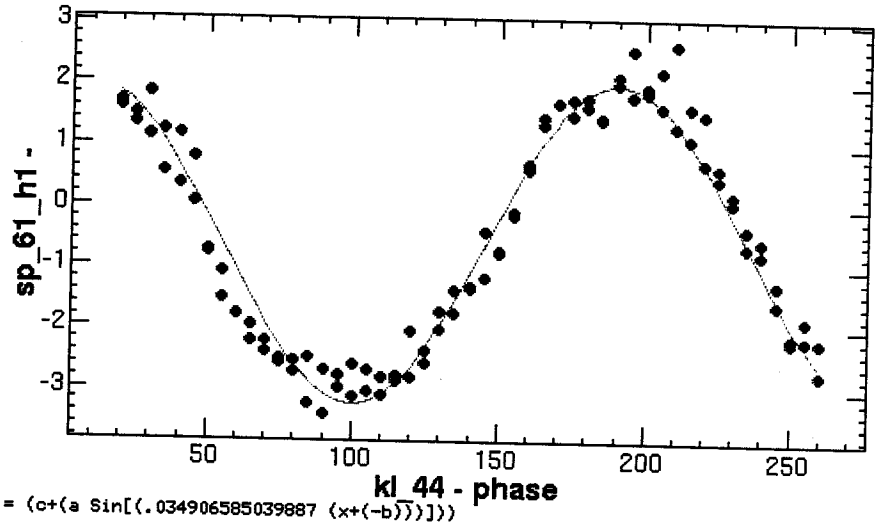
⇓

26.5MV/m

File Edit Window 10/10/2003 21:46:53 Help

ChiSquare = 14.7018 Goodness = .48070

a = 2.61233 +/- .05883 b = -34.771 +/- .61839 c = -.62865 +/- .04149



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

Hard Copy

21:49 Es 30.0 KV Power 14.5 MW $\sqrt{P}$ = 3.8

a = -2.6717 b = 74.6064 c = -0.52204

KLY 4-4 Phase 164.6° ← Set

Energy FB ON → OFF

* a = -2.257 b = 70.7904 c = -0.18739

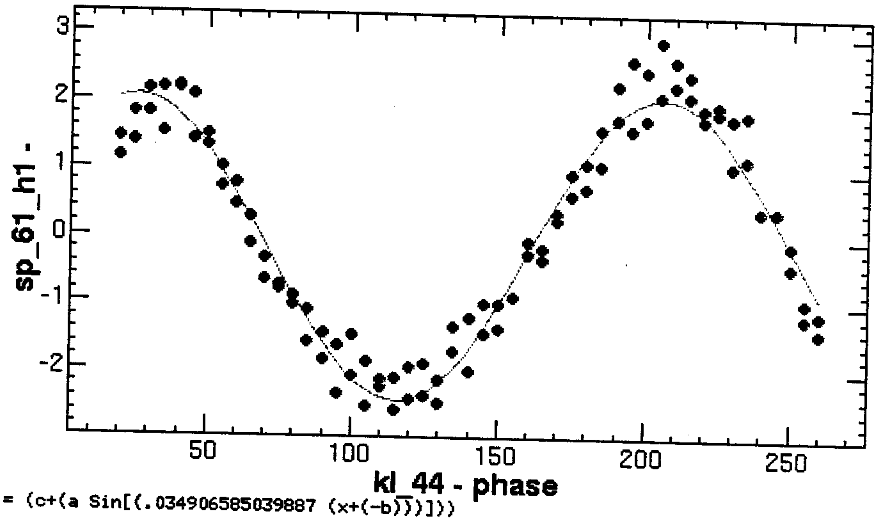
↓

22.9 MV/m

File Edit Window 10/10/2003 22:06:39 Help

ChiSquare = 12.3651 Goodness = .48070

a = -2.2570 +/- .05295 b = 70.7909 +/- .66843 c = -.18739 +/- .03805



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

Hard Copy

22:12 ES 28.5 kV Power 12.3 MW $\sqrt{P}=3.5$

a= -2.257 b= 87.8395 C= -0.0666

KLY 4_4 Phase 177.8 kset.

Energy FB ON → OFF

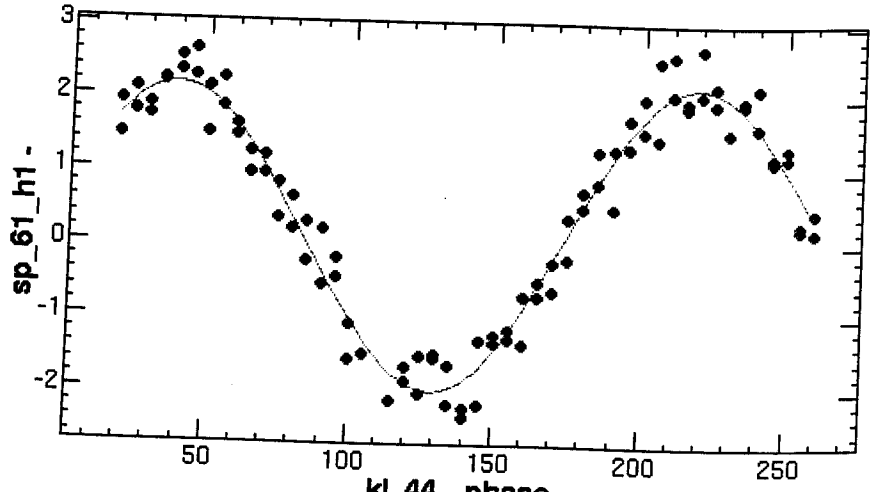
本番 a= -2.0417 b = 83.9711 C= 0.07077.

⇓

21.2 MV/m

File Edit Window 10/10/2003 22:27:30 Help

ChiSquare = 8.90478 Goodness = .48028
a = -2.0917 +/- .04713 b = 83.9711 +/- .64824 c = .07677 +/- .03420



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

22:10 ES 27.0 KV Power 10.2 MW $\sqrt{P}$ = 3.2

a = -2.2213 b = 102.633 c = 0.12245

KLY 4 Phase 192.7 ← Set

Energy FB ON → OFF

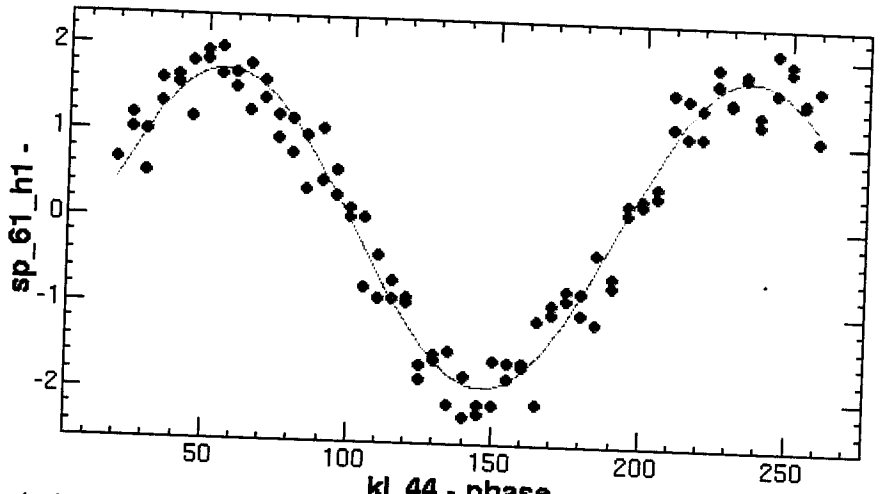
a = -1.8354 b = 101.516 c = 0.04690

↓

18.6 MV/m

File Edit Window 10/10/2003 22:45:16 Help

ChiSquare = 8.08147 Goodness = .48070
a = -1.8359 +/- .04177 b = 101.516 +/- .68178 c = -.09690 +/- .03076



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

Hard Copy

22:47

E_s 25.5 kV Power 8.2 MW $\sqrt{P}$ = 2.9

a = -2.0024 b = 120.458 C = -0.25089

KLY 4_4 Phase 30.5° Set.

Energy FB ON → OFF

a = -1.6970 b = 117.615 c = -0.06075

⇓

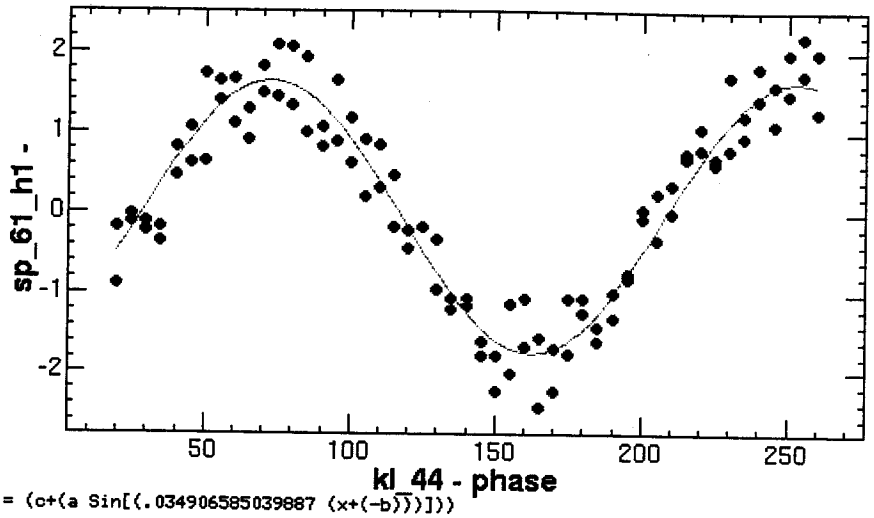
17.2 MV/m

7

File Edit Window 10/10/2003 23:05:48 Help

ChiSquare = 11.9091 Goodness = .48070

a = -1.6970 +/- .05183 b = 117.615 +/- .87508 c = -.06075 +/- .03734



Function = (c+(a Sin[(.034906585039887 (x+(-b)))]))

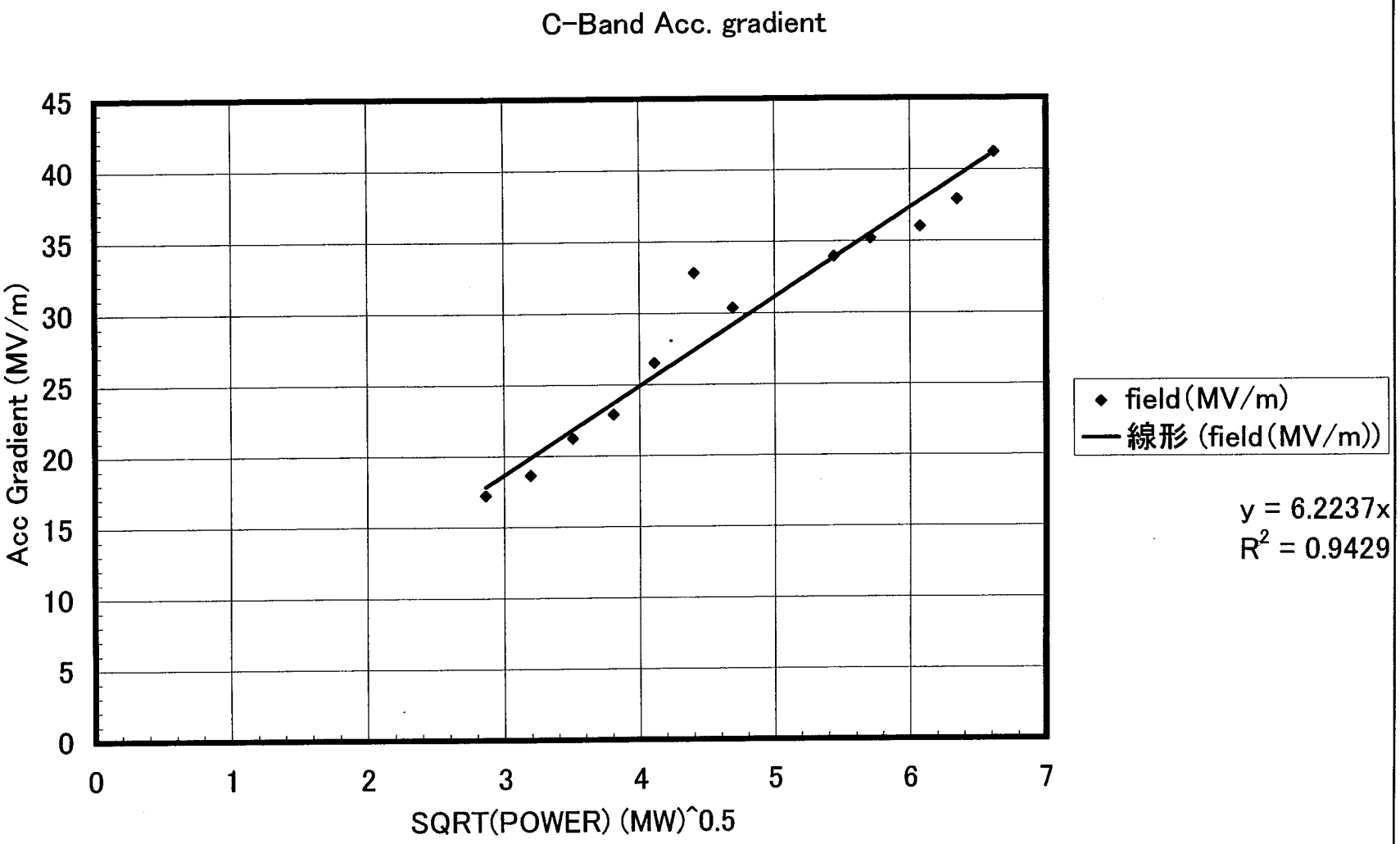
23:09 Es 30.0 KV

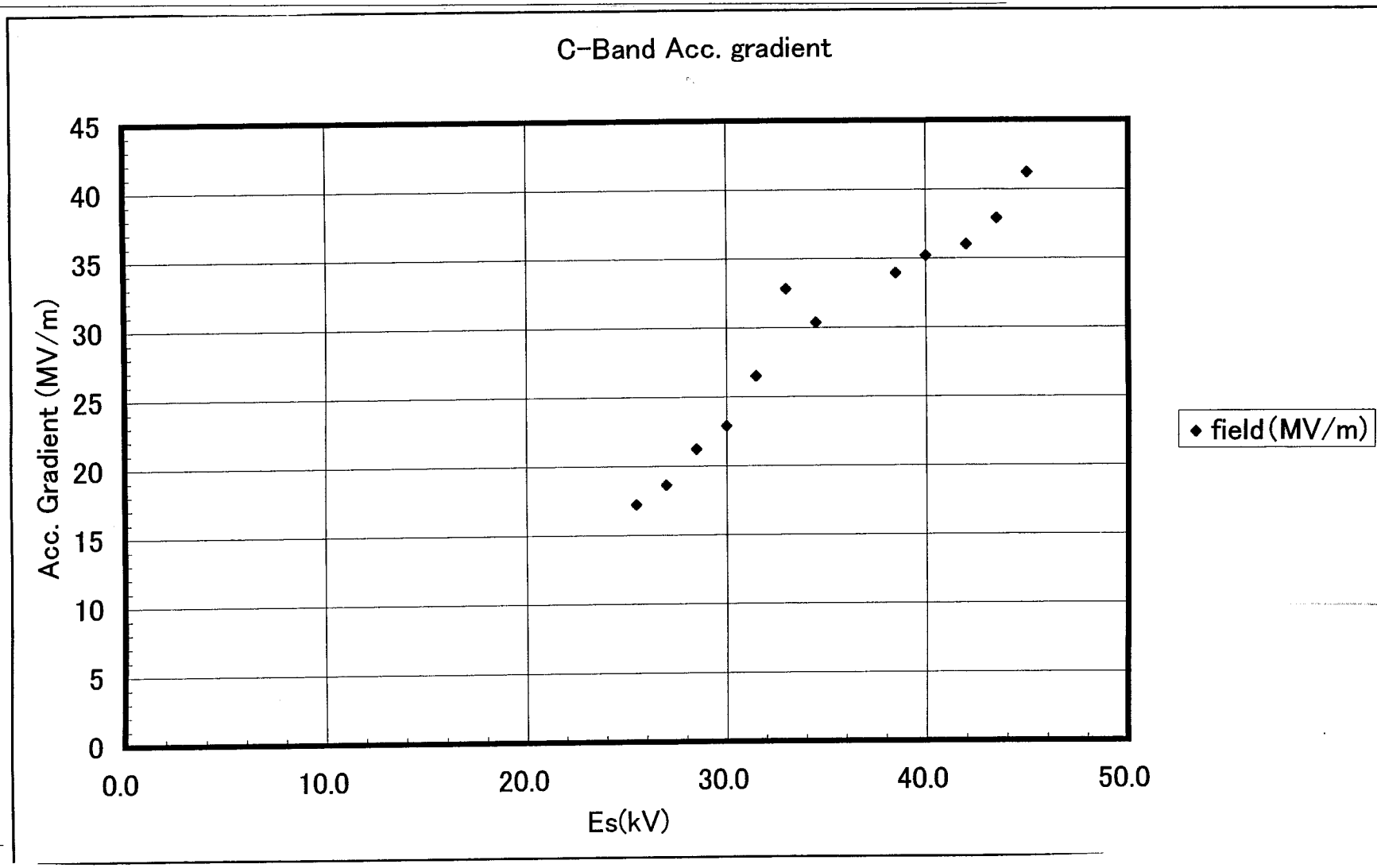
23:10 Es 33.0KV

23:11 KLY 4.4 Phase 132.1°

3セイタ で KLY DOWN 直発 (KLY 3-3)

PF-AR 用 3.002 GeV e^- ビームを用いて測定




C-Band Acc. gradient
Acc. Gradient (MV/m)
45
40
35
30
25
20
15
10
5
0
0.0
10.0
20.0
30.0
40.0
50.0
Es(kV)
◆ field(MV/m)

[03/11/18 (火)] (Quad BPM) 佐藤政則

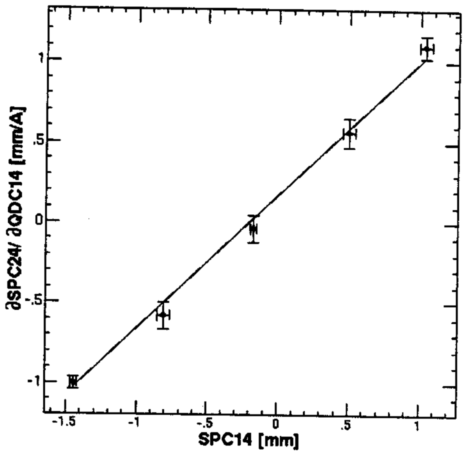
~~SP14~~ ◦ SPC1 ~ 4 先に測定、

◦ Fit0, Fitの図を出力。 ◦ KEKB e-, 5Hz で測定、

(X)
SPC14
QRC14
SXC11

offset -0.17139
error 0.0058

File Edit Window

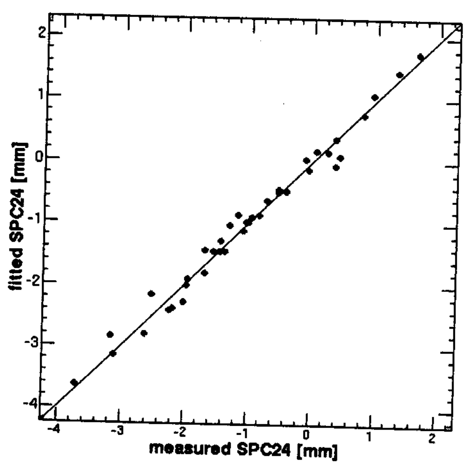


Hard Copy

Help
Condition
BPM to be Calibrated :
SPC14
Direction :
◆ Horizontal Vertical
Used Components :
BPM : SPC14
Steering : {{"SXC11",1}}
from -2.5
to 2
number 5
Q magnet: QDC14
from -1
to 1
number 8
next remem. save
GO READ
Display
BPM : Steering step :
SPC24 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: -.17139
error [mm]: .0058
Last BPM taken into account :
SPC74
rel. curr. thresh. : .7
Fit Chk I Save

File Edit Window

residual : .176 mm



Hard Copy

Help
Condition
BPM to be Calibrated :
SPC14
Direction :
◆ Horizontal Vertical
Used Components :
BPM : SPC14
Steering : {{"SXC11",1}}
from -2.5
to 2
number 5
Q magnet: QDC14
from -1
to 1
number 8
next remem. save
GO READ
Display
BPM : Steering step :
SPC24 Fit0
Result
When the beam is at the Q center :
BPM reading [mm]: -.17139
error [mm]: .0058
Last BPM taken into account :
SPC74
rel. curr. thresh. : .7
Fit Chk I Save