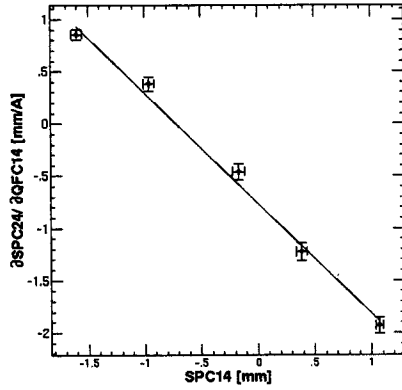


SPC14  
~~QFC14~~  
~~SPC14~~

Offset  
 0.72694  
 Error  
 0.00556

File Edit Window



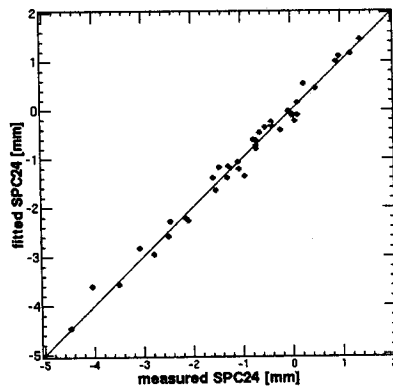
Hard Copy

Condition Help

BPM to be Calibrated :  
 SPC14  
 Direction :  
 Horizontal Vertical  
 Used Components :  
 BPM : SPC14  
 Steering : ((SXC11,1))  
 from -2.5  
 to 2  
 number 5  
 Q magnet: QFC14  
 from -1  
 to 1  
 number   
 next remem. save  
 GO READ  
 Display  
 BPM : Steering step :  
 SPC24 RD  
 Result  
 When the beam is at the Q center :  
 BPM reading [mm]: -72694  
 error [mm]: .00556  
 Last BPM taken into account :  
 SPC74  
 rel. curr. thresh. : .7  
 Rt Ok I Save

File Edit Window

residual = .182 mm

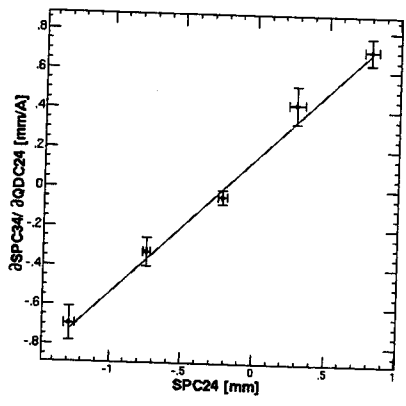


Hard Copy

Condition Help

BPM to be Calibrated :  
 SPC14  
 Direction :  
 Horizontal Vertical  
 Used Components :  
 BPM : SPC14  
 Steering : ((SXC11,1))  
 from -2.5  
 to 2  
 number 5  
 Q magnet: QFC14  
 from -1  
 to 1  
 number   
 next remem. save  
 GO READ  
 Display  
 BPM : Steering step :  
 SPC24 RD  
 Result  
 When the beam is at the Q center :  
 BPM reading [mm]: -72694  
 error [mm]: .00556  
 Last BPM taken into account :  
 SPC74  
 rel. curr. thresh. : .7  
 Rt Ok I Save

File Edit Window



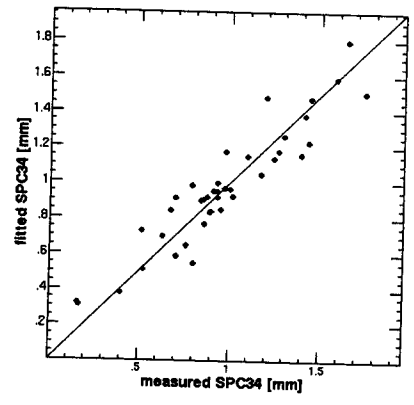
Hard Copy

Condition  
 BPM to be Calibrated :  
 SPC24  
 Direction :  
 Horizontal Vertical  
 Used Components :  
 BPM : SPC24  
 Steering : {{("SXC21",1)}}  
 from -2  
 to 2  
 number 5  
 Q magnet: QDC24  
 from -1  
 to 1  
 number   
 next remem. save  
 GO READ  
 Display  
 BPM : Steering step :  
 SPC34 Fit  
 Result  
 When the beam is at the Q center :  
 BPM reading [mm]: -2.4046  
 error [mm]: .00842  
 Last BPM taken into account :  
 SPC74  
 rel. curr. thresh. : .7  
 Fit Chk I Save

SPC24  
 QDC24  
 off set  
 -0.24046  
 error  
 0.00842

File Edit Window

residual = .140 mm

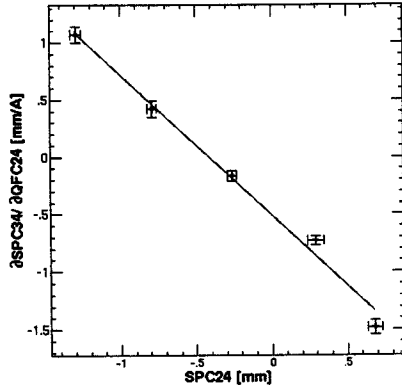


Hard Copy

Condition  
 BPM to be Calibrated :  
 SPC24  
 Direction :  
 Horizontal Vertical  
 Used Components :  
 BPM : SPC24  
 Steering : {{("SXC21",1)}}  
 from -2  
 to 2  
 number 5  
 Q magnet: QDC24  
 from -1  
 to 1  
 number   
 next remem. save  
 GO READ  
 Display  
 BPM : Steering step :  
 SPC34 Fit  
 Result  
 When the beam is at the Q center :  
 BPM reading [mm]: -2.4046  
 error [mm]: .00842  
 Last BPM taken into account :  
 SPC74  
 rel. curr. thresh. : .7  
 Fit Chk I Save

{ SPC24  
 QF24  
 offset  
 -0.40446  
 0.00478

File Edit Window



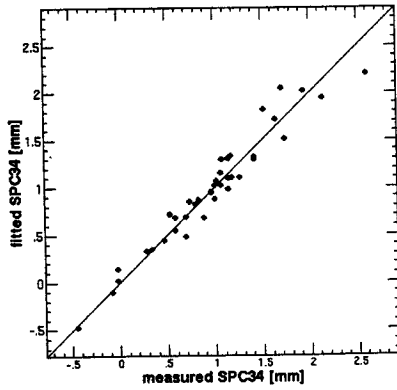
Hard Copy

11/18/2001 17:30:00 Help

Condition  
 BPM to be Calibrated :  
 SPC24  
 Direction :  
 Horizontal Vertical  
 Used Components :  
 BPM : SPC24  
 Steering : ((SXC21,1))  
 from -2  
 to 2  
 number 5  
 Q magnet: QFC24  
 from -1  
 to 1  
 number 8  
 next remem. save  
 GO READ  
 Display  
 BPM : Steering step :  
 SPC34 Fit  
 Result  
 When the beam is at the Q center :  
 BPM reading [mm]: -0.40446  
 error [mm]: .00478  
 Last BPM taken into account :  
 SPC34  
 rel. curr. thresh. : .7  
 Fit Chk 1 Save

File Edit Window

residual = .157 mm



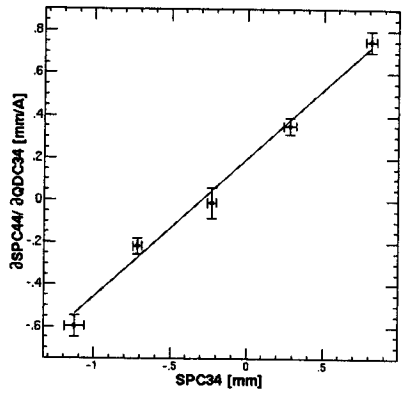
Hard Copy

11/18/2001 17:30:00 Help

Condition  
 BPM to be Calibrated :  
 SPC24  
 Direction :  
 Horizontal Vertical  
 Used Components :  
 BPM : SPC24  
 Steering : ((SXC21,1))  
 from -2  
 to 2  
 number 5  
 Q magnet: QFC24  
 from -1  
 to 1  
 number 8  
 next remem. save  
 GO READ  
 Display  
 BPM : Steering step :  
 SPC34 Fit  
 Result  
 When the beam is at the Q center :  
 BPM reading [mm]: -0.40446  
 error [mm]: .00478  
 Last BPM taken into account :  
 SPC34  
 rel. curr. thresh. : .7  
 Fit Chk 1 Save

SPC34  
ADC34  
offset  
-0.23769  
error  
0.0062

File Edit Window

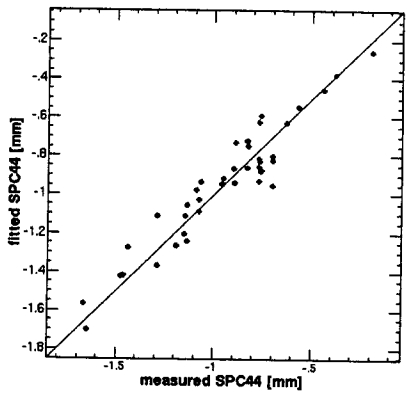


Hard Copy

Condition  
BPM to be Calibrated :  
SPC34  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC34  
Steering : ((SXC31,1))  
from -2  
to 2  
number 5  
Q magnet: QDC34  
from -1  
to 1  
number 8  
next remem. save  
GO READ  
Display  
BPM : SPC44 Steering step : Ft  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -23769  
error [mm]: .00622  
Last BPM taken into account :  
SPC34  
rel. curr. thresh. : .7  
Ft Ok! Save

File Edit Window

residual = .107 mm



Hard Copy

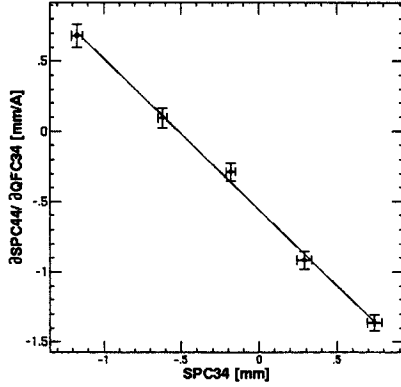
Condition  
BPM to be Calibrated :  
SPC34  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC34  
Steering : ((SXC31,1))  
from -2  
to 2  
number 5  
Q magnet: QDC34  
from -1  
to 1  
number 8  
next remem. save  
GO READ  
Display  
BPM : SPC44 Steering step : Ft  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -23769  
error [mm]: .00622  
Last BPM taken into account :  
SPC34  
rel. curr. thresh. : .7  
Ft Ok! Save

SPC44	-0.239	0.011	( 0.107)
SPC54	-0.317	0.025	( 0.159)
SPC64	-0.245	0.010	( 0.123)
SPC74	-0.207	0.013	( 0.140)
SPC84	1.066	0.429	( 0.179)

SPC34  
QFC34  
offset  
-0.50594  
0.00584

File Edit Window

11/18/2001 14:30:21 Help



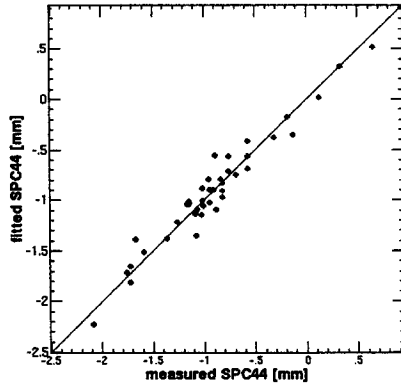
Hard Copy

Condition  
BPM to be Calibrated :  
SPC34  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC34  
Steering : ((SXC31,1))  
from -2  
to 2  
number 5  
Q magnet: GFC34  
from -1  
to 1  
number 8  
next remain. save  
GO READ  
Display  
BPM : Steering step :  
SPC44 Rt  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -50594  
error [mm]: .00584  
Last BPM taken into account :  
SPC34  
rel. curr. thresh. : .7  
Rt Chk I Save

File Edit Window

11/18/2001 14:36:01 Help

residual = .137 mm



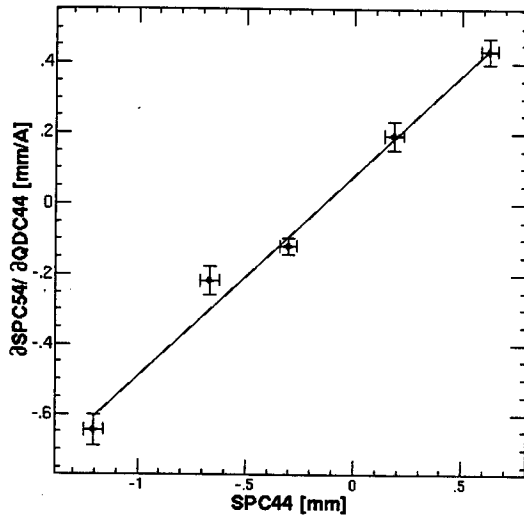
Hard Copy

Condition  
BPM to be Calibrated :  
SPC34  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC34  
Steering : ((SXC31,1))  
from -2  
to 2  
number 5  
Q magnet: GFC34  
from -1  
to 1  
number 8  
next remain. save  
GO READ  
Display  
BPM : Steering step :  
SPC44 Rt  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -50594  
error [mm]: .00584  
Last BPM taken into account :  
SPC34  
rel. curr. thresh. : .7  
Rt Chk I Save

SPC44	-0.506	0.012	( 0.137)
SPC54	-0.488	0.020	( 0.153)
SPC64	-0.508	0.009	( 0.129)
SPC74	-0.509	0.011	( 0.141)
SPC84	1.658	2.399	( 0.179)

File Edit Window

SPC44  
QDC44  
offset  
-0.0781  
error  
0.00658



Condition  
BPM to be Calibrated :  
SPC44

Direction :  
Horizontal Vertical

Used Components :  
BPM : SPC44  
Steering : {{"SXC41",1}}  
from -2  
to 2  
number 5  
Q magnet: QDC44  
from -1  
to 1  
number

next remem. save  
GO READ

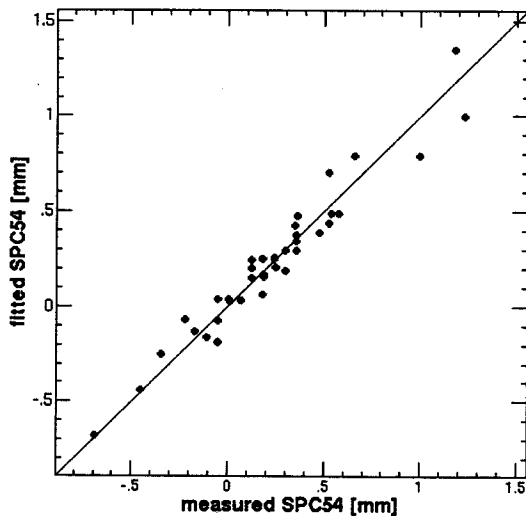
Display  
BPM : SPC54  
Steering step : Fit

Result  
When the beam is at the Q center :  
BPM reading [mm]: -0.781  
error [mm]: .00658  
Last BPM taken into account :  
SP114  
rel. curr. thresh. : .7

Fit Chk I Save

File Edit Window

residual = .100 mm



Condition  
BPM to be Calibrated :  
SPC44

Direction :  
Horizontal Vertical

Used Components :  
BPM : SPC44  
Steering : {{"SXC41",1}}  
from -2  
to 2  
number 5  
Q magnet: QDC44  
from -1  
to 1  
number

next remem. save  
GO READ

Display  
BPM : SPC54  
Steering step : Fit

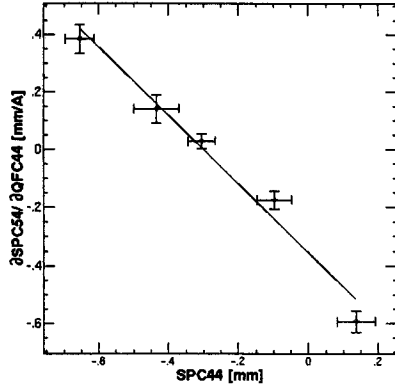
Result  
When the beam is at the Q center :  
BPM reading [mm]: -0.781  
error [mm]: .00658  
Last BPM taken into account :  
SP114  
rel. curr. thresh. : .7

Fit Chk I Save

SPC54	-0.120	0.013 ( 0.100)
SPC64	0.227	0.098 ( 0.215)
SPC74	-0.068	0.037 ( 0.204)
SPC84	-0.070	0.010 ( 0.139)
SP114	-0.058	0.013 ( 0.137)

SPC44  
QFC44  
offset  
-0.31129  
error  
0.01056

File Edit Window



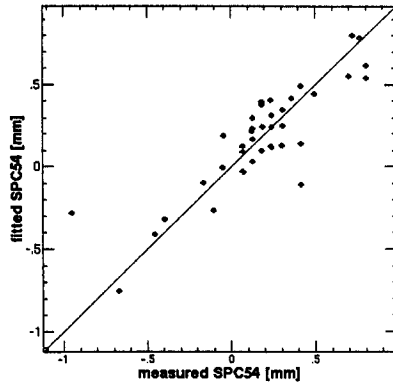
11-10-2003 13:00:57 Help

Condition  
BPM to be Calibrated :  
SPC44  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC44  
Steering : {{("SXC41",1)}}  
from -1  
to 1  
number 5  
Q magnet: QFC44  
from -1.5  
to 1.5  
number 8  
next remem. save  
GO READ  
Display  
BPM : Steering step :  
SPC54 Rt  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -31127  
error [mm]: .01056  
Last BPM taken into account :  
SP114  
rel. curr. thresh. : .7  
Rt Chk I Save

Hard Copy

File Edit Window

residual = .194 mm



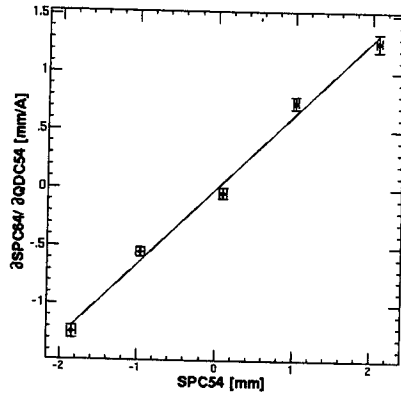
11-10-2003 13:00:57 Help

Condition  
BPM to be Calibrated :  
SPC44  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC44  
Steering : {{("SXC41",1)}}  
from -1  
to 1  
number 5  
Q magnet: QFC44  
from -1.5  
to 1.5  
number 8  
next remem. save  
GO READ  
Display  
BPM : Steering step :  
SPC54 Rt  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -31127  
error [mm]: .01056  
Last BPM taken into account :  
SP114  
rel. curr. thresh. : .7  
Rt Chk I Save

Hard Copy

SPC54	-0.315	0.022	( 0.194)
SPC64	-0.263	0.048	( 0.221)
SPC74	-0.300	0.036	( 0.170)
SPC84	-0.309	0.017	( 0.259)
SP114	-0.324	0.021	( 0.238)

File Edit Window



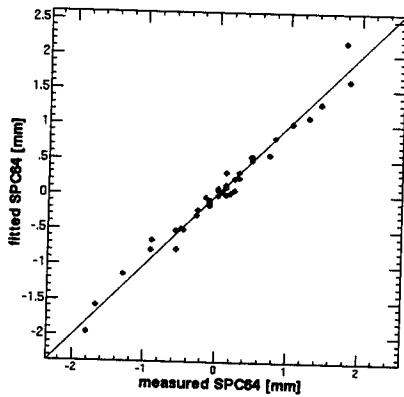
Hard Copy

```

Condition
BPM to be Calibrated :
  SPC54
Direction :
  Horizontal Vertical
Used Components :
BPM : SPC54
Steering : (('BXC51',1))
  from -1
  to 1
  number 5
Q magnet: QDC54
  from -1
  to 1
  number 8
  next remem. save
GO READ
Display
BPM : Steering step :
SPC54 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: .03572
error [mm]: .00719
Last BPM taken into account :
SP124
rel. curr. thresh. : .7
Fit Ok | Save
  
```

File Edit Window

residual = .134 mm



Hard Copy

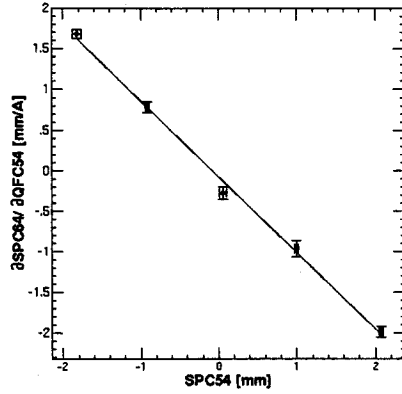
```

Condition
BPM to be Calibrated :
  SPC54
Direction :
  Horizontal Vertical
Used Components :
BPM : SPC54
Steering : (('BXC51',1))
  from -1
  to 1
  number 5
Q magnet: QDC54
  from -1
  to 1
  number 8
  next remem. save
GO READ
Display
BPM : Steering step :
SPC54 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: .03572
error [mm]: .00719
Last BPM taken into account :
SP124
rel. curr. thresh. : .7
Fit Ok | Save
  
```

SPC64	0.012	0.013	( 0.134)
SPC74	0.036	0.011	( 0.173)
SPC84	0.056	0.020	( 0.252)
SP114	0.032	0.053	( 0.184)
SP124	0.069	0.019	( 0.121)



File Edit Window



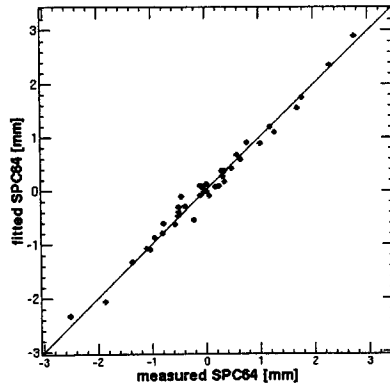
Hard Copy

Condition Help

BPM to be Calibrated :  
SPC54  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC54  
Steering : ((BXC51,1))  
from -1  
to 1  
number 5  
Q magnet: QFC54  
from -1  
to 1  
number 8  
next remem. save  
GO READ  
Display  
BPM : Steering step :  
SPC54 Fit  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -.05854  
error [mm]: .00464  
Last BPM taken into account :  
SP124  
rel. curr. thresh. : .7  
Fit Ok | Save

File Edit Window

residual = .142 mm



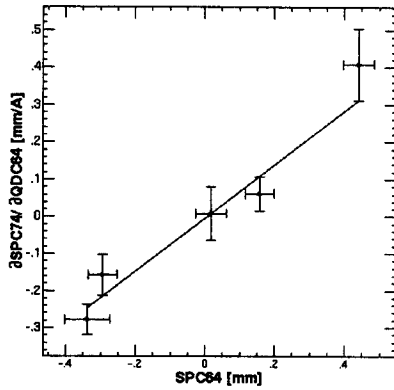
Hard Copy

Condition Help

BPM to be Calibrated :  
SPC54  
Direction :  
Horizontal Vertical  
Used Components :  
BPM : SPC54  
Steering : ((BXC51,1))  
from -1  
to 1  
number 5  
Q magnet: QFC54  
from -1  
to 1  
number 8  
next remem. save  
GO READ  
Display  
BPM : Steering step :  
SPC54 Fit  
Result  
When the beam is at the Q center :  
BPM reading [mm]: -.05854  
error [mm]: .00464  
Last BPM taken into account :  
SP124  
rel. curr. thresh. : .7  
Fit Ok | Save

SPC64	-0.057	0.010	( 0.142)
SPC74	-0.071	0.007	( 0.149)
SPC84	-0.054	0.013	( 0.234)
SP114	-0.124	0.034	( 0.159)
SP124	-0.013	0.012	( 0.123)

File Edit Window



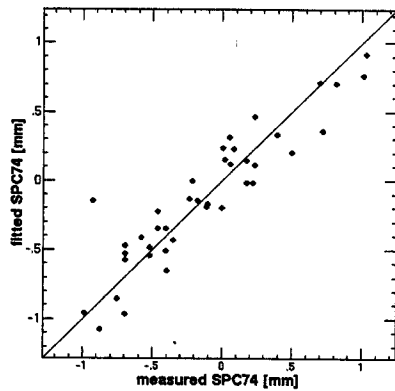
Hard Copy

```

Condition
BPM to be Calibrated :
  SPC64
Direction :
  Horizontal Vertical
Used Components :
BPM : SPC64
Steering : (('SXC61',1))
  from -1
  to 1
  number 5
Q magnet: QDC64
  from -1
  to 1
  number 8
  next remem. save
  GO READ
Display
BPM : Steering step :
  SPC74 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: .05553
error [mm]: .00768
Last BPM taken into account :
  SP134
rel. curr. thresh. : .7
  Fit Ok | Save
  
```

File Edit Window

residual = .223 mm



Hard Copy

```

Condition
BPM to be Calibrated :
  SPC64
Direction :
  Horizontal Vertical
Used Components :
BPM : SPC64
Steering : (('SXC61',1))
  from -1
  to 1
  number 5
Q magnet: QDC64
  from -1
  to 1
  number 8
  next remem. save
  GO READ
Display
BPM : Steering step :
  SPC74 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: .05553
error [mm]: .00768
Last BPM taken into account :
  SP134
rel. curr. thresh. : .7
  Fit Ok | Save
  
```

SPC74	0.079	0.023	( 0.223)
SPC84	0.063	0.013	( 0.232)
SP114	0.045	0.012	( 0.136)
SP124	-0.006	0.065	( 0.110)
SP134	0.059	0.022	( 0.172)