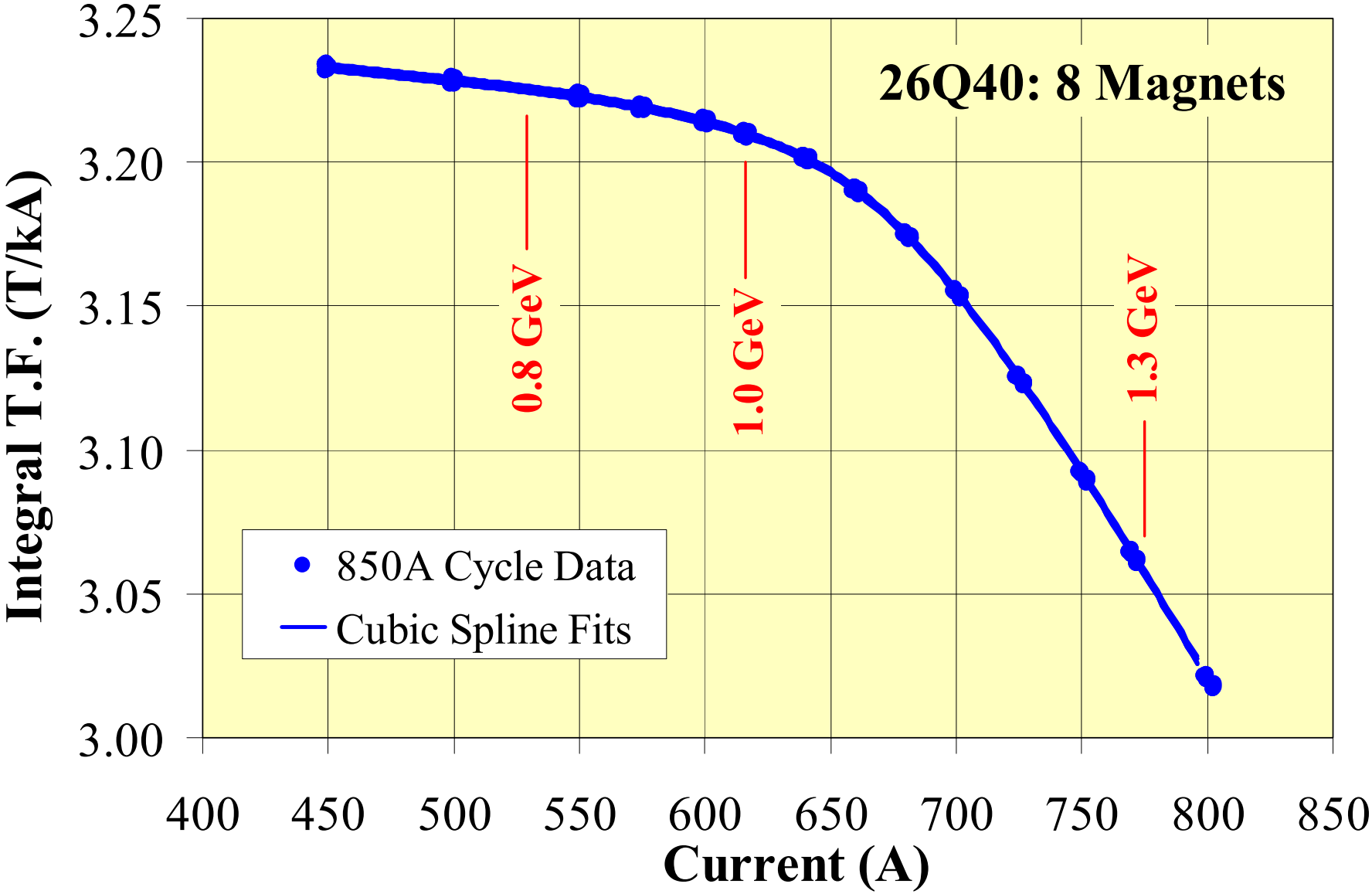
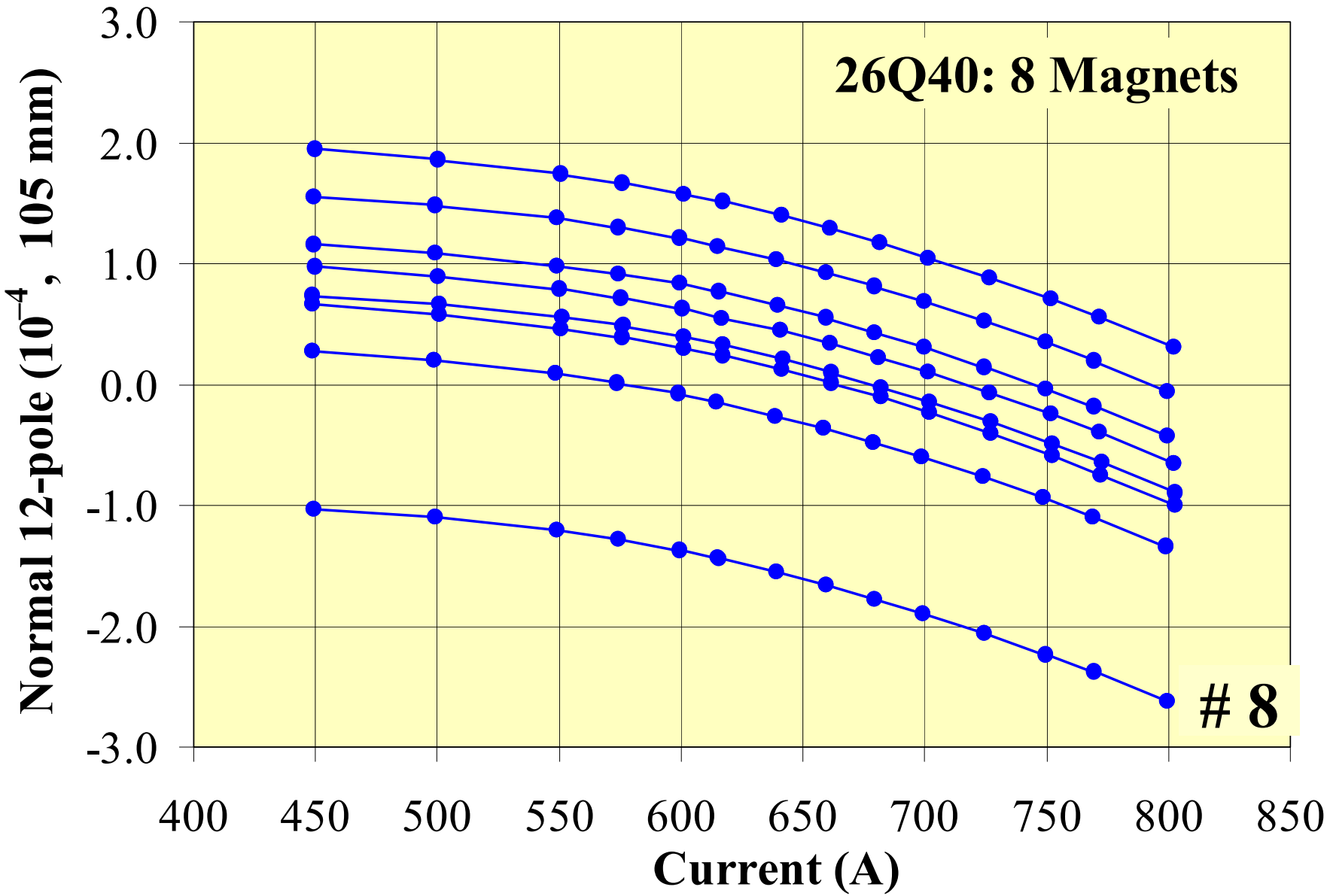
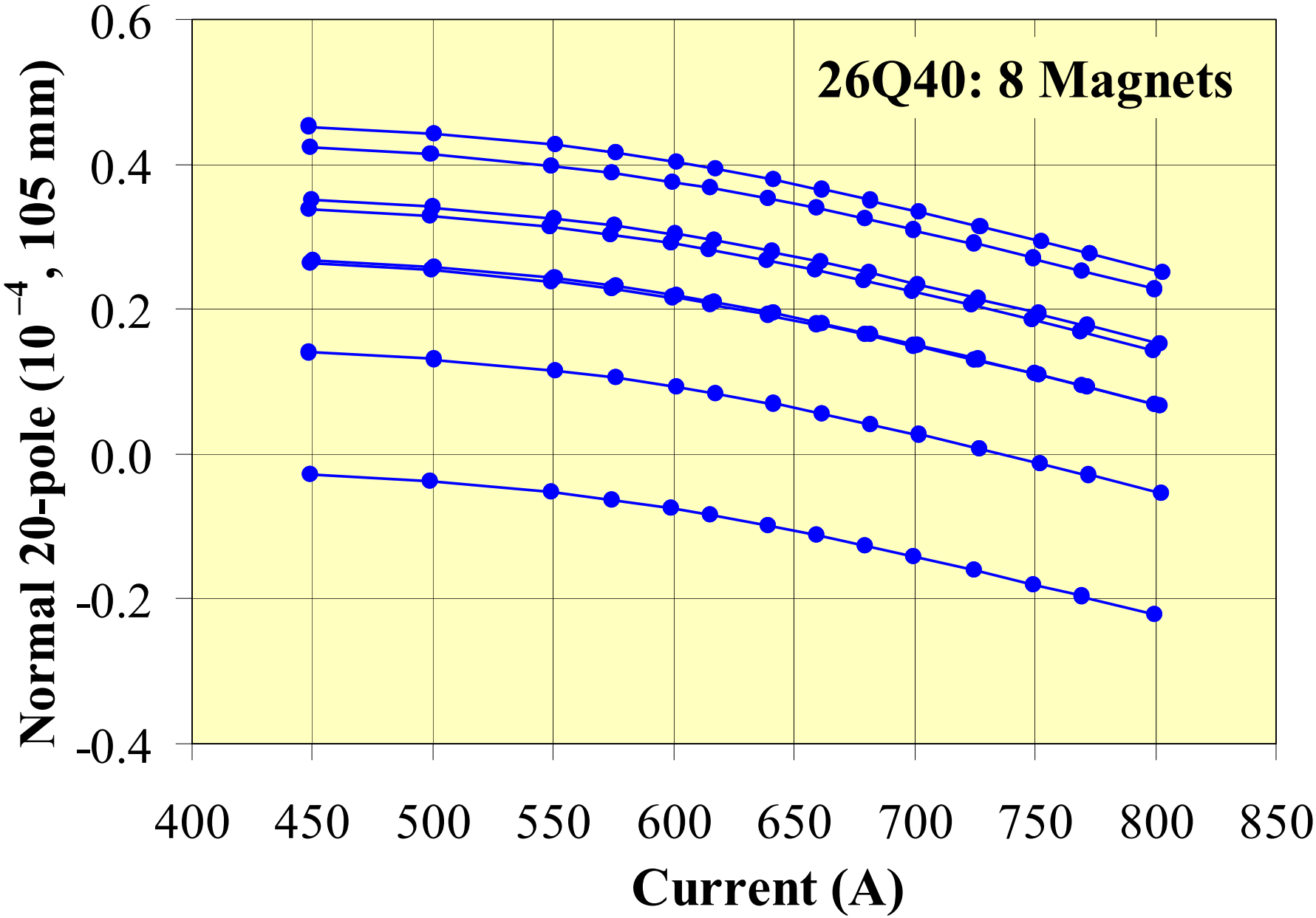
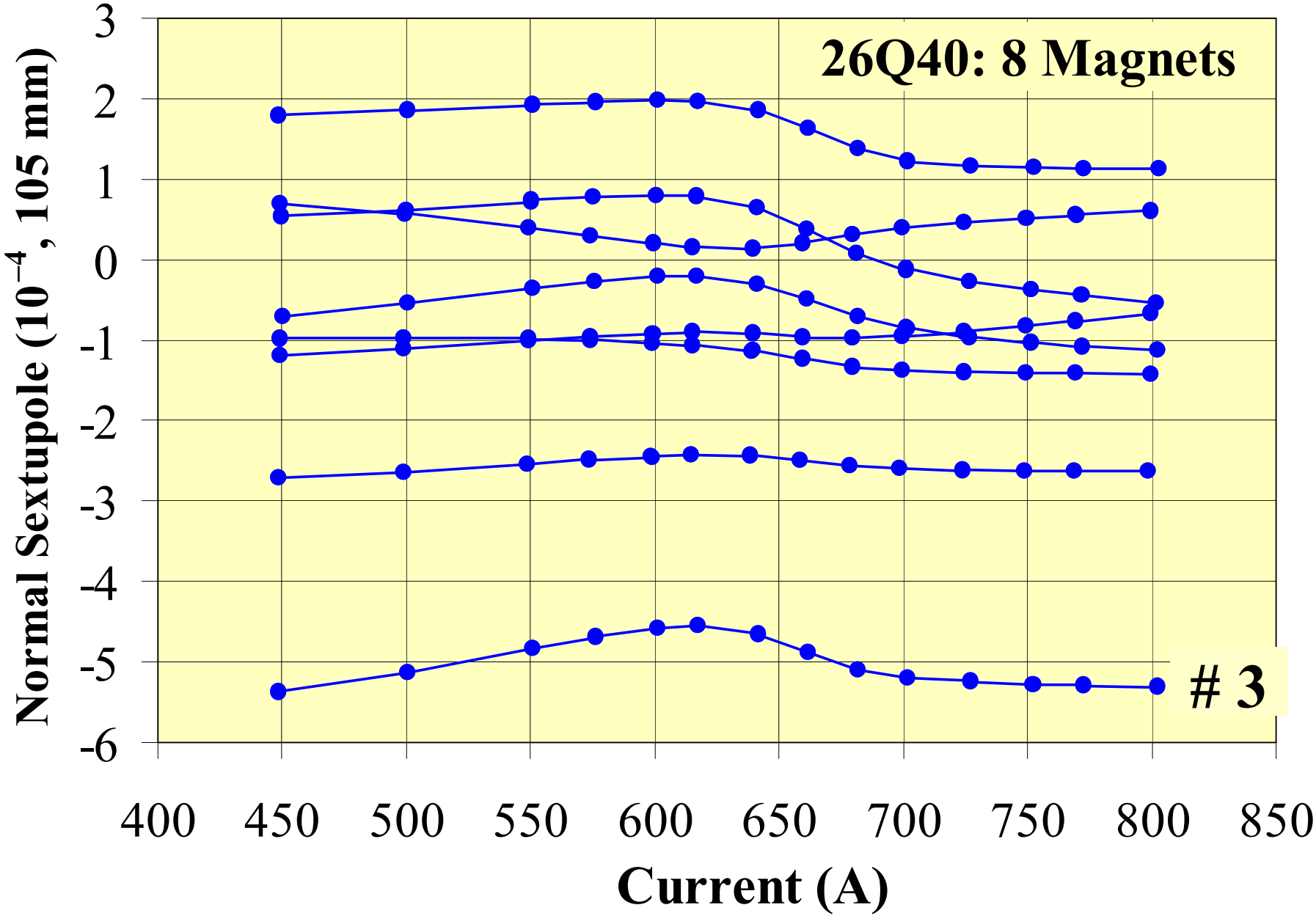
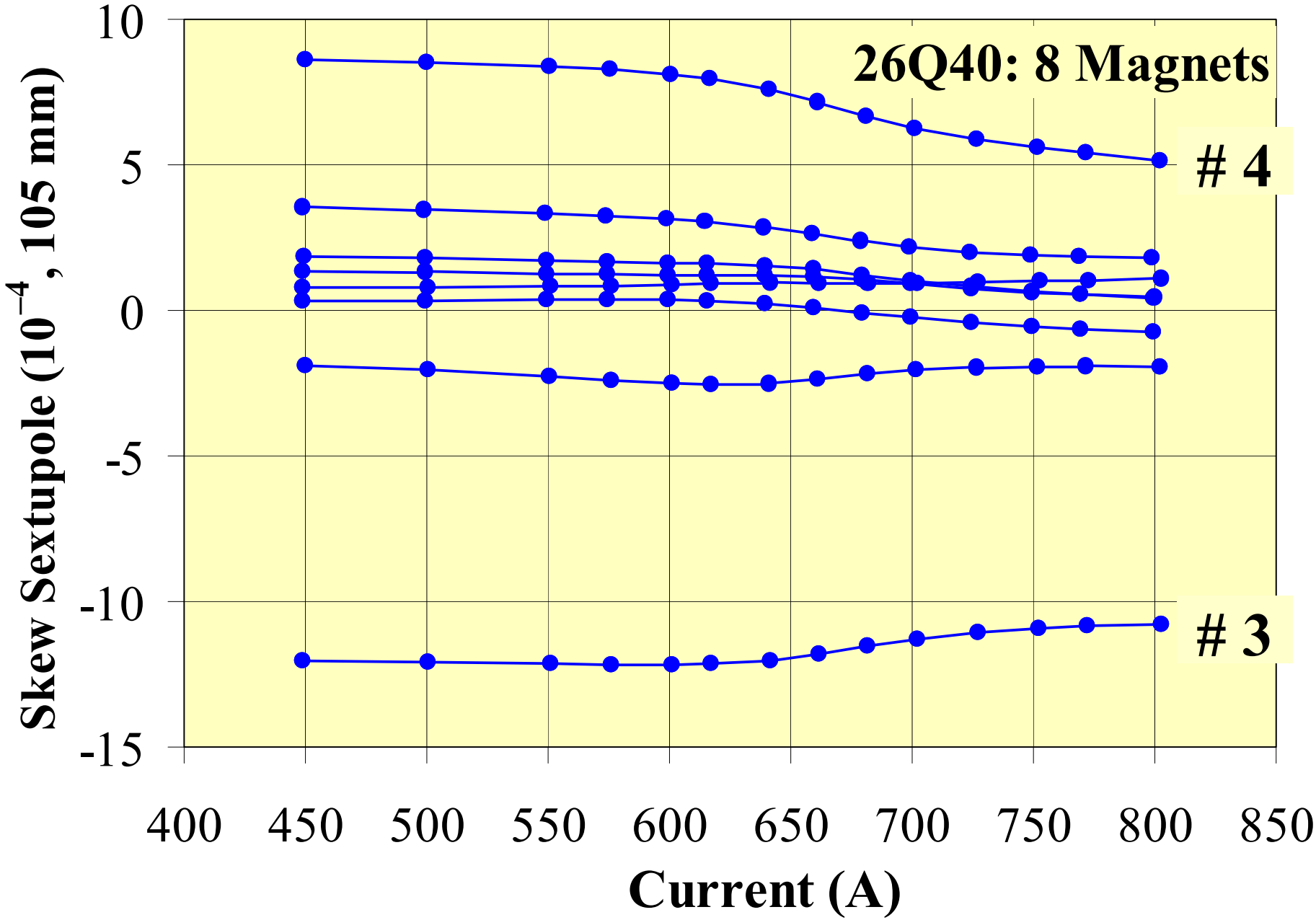
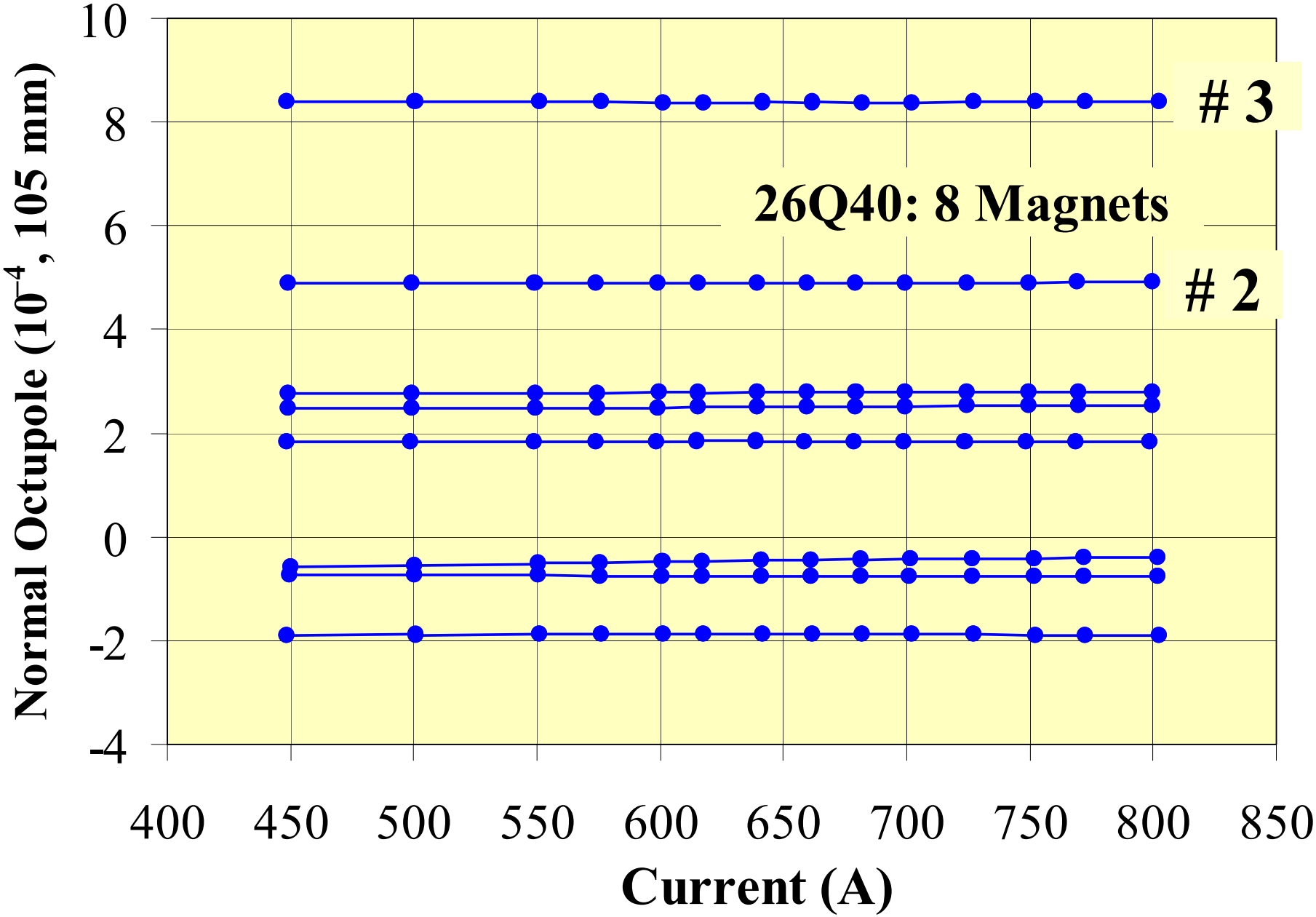

26Q40: 8 Magnets
Integral T.F. (T/kA)
3.25
3.20
3.15
3.10
3.05
3.00
400
450
500
550
600
650
700
750
800
850
Current (A)
0.8 GeV
1.0 GeV
1.3 GeV
850A Cycle Data
Cubic Spline Fits

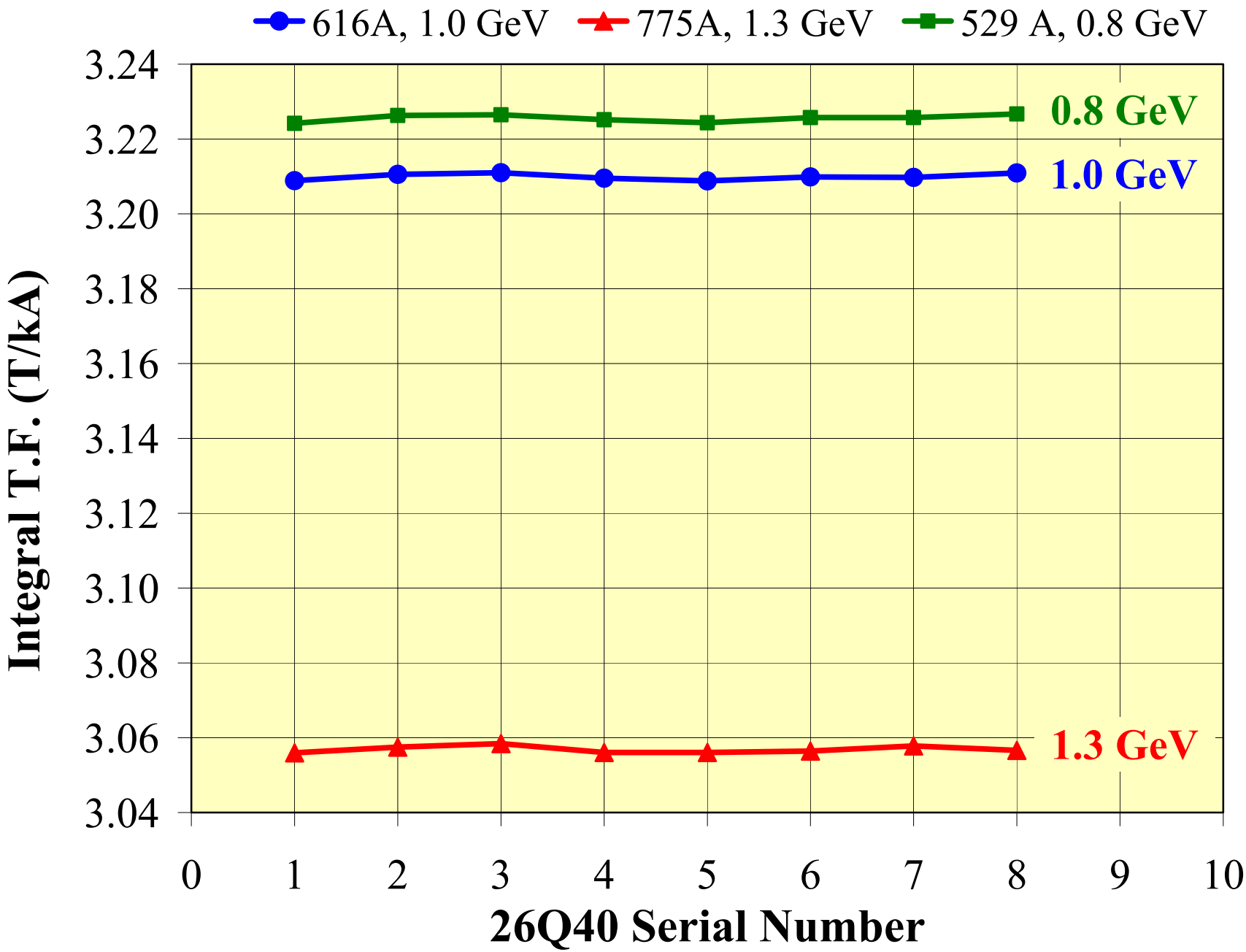

26Q40: 8 Magnets
8
Normal 12-pole (10^{-4}, 105 mm)
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
400
450
500
550
600
650
700
750
800
850
Current (A)

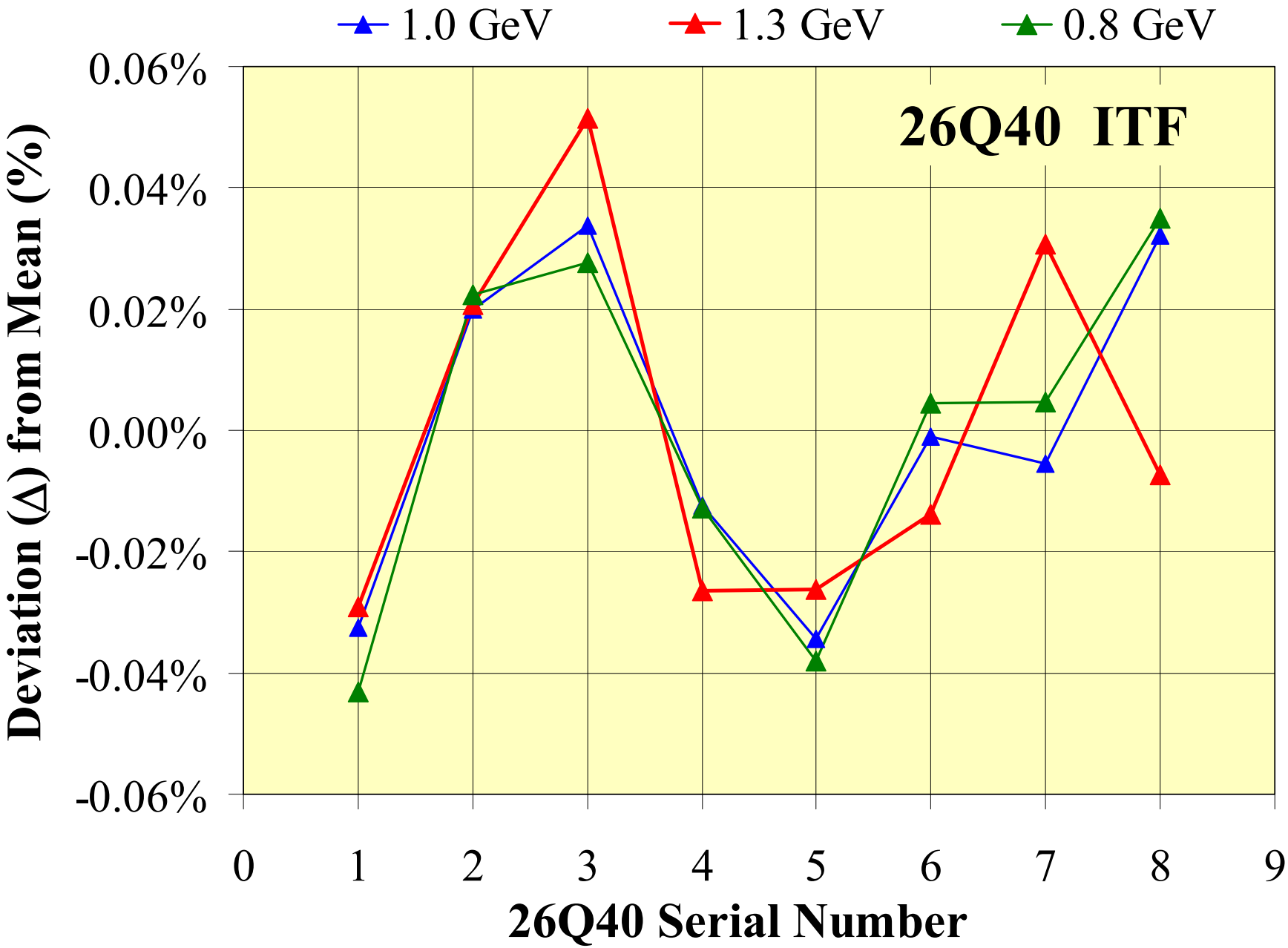

26Q40: 8 Magnets
Normal 20-pole (10^{-4}, 105 mm)
0.6
0.4
0.2
0.0
-0.2
-0.4
400
450
500
550
600
650
700
750
800
850
Current (A)


26Q40: 8 Magnets
3
Normal Sextupole (10^{-4}, 105 mm)
3
2
1
0
-1
-2
-3
-4
-5
-6
400
450
500
550
600
650
700
750
800
850
Current (A)


26Q40: 8 Magnets
4
3
Skew Sextupole (10^{-4}, 105 mm)
10
5
0
-5
-10
-15
400
450
500
550
600
650
700
750
800
850
Current (A)


26Q40: 8 Magnets
3
2
Normal Octupole (10^{-4}, 105 mm)
10
8
6
4
2
0
-2
-4
400
450
500
550
600
650
700
750
800
850
Current (A)

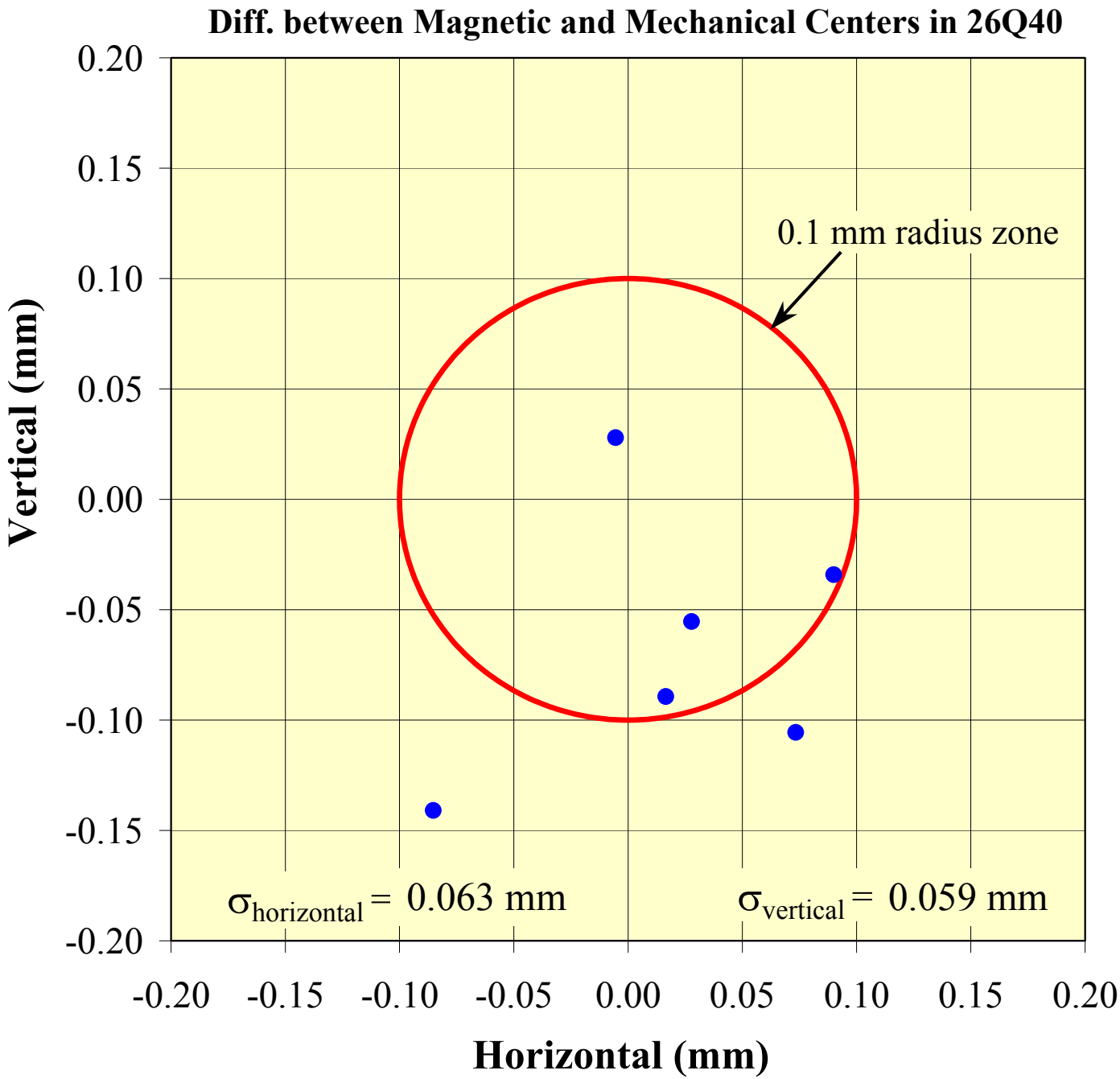
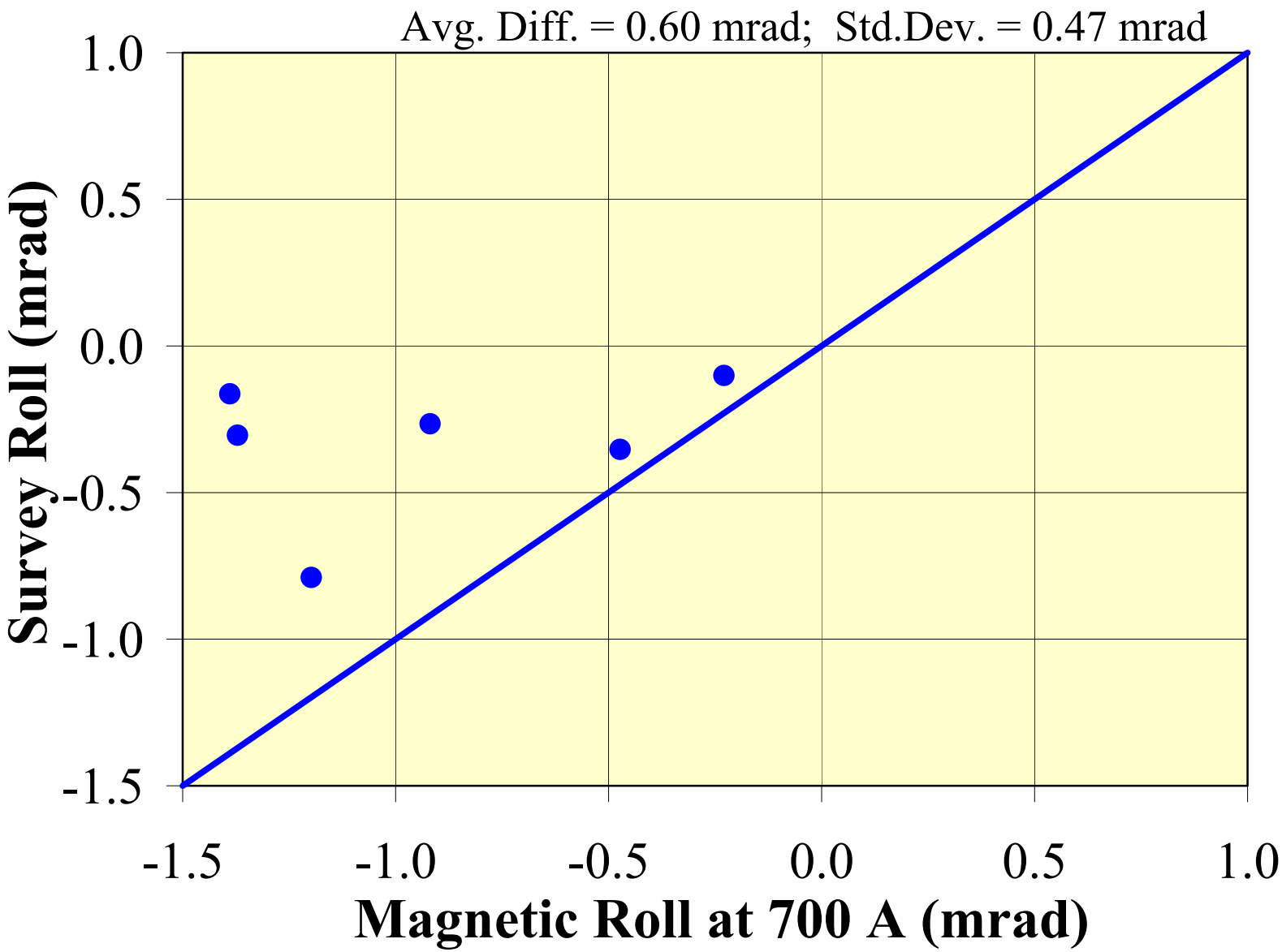

616A, 1.0 GeV
775A, 1.3 GeV
529 A, 0.8 GeV
0.8 GeV
1.0 GeV
1.3 GeV
Integral T.F. (T/kA)
3.24
3.22
3.20
3.18
3.16
3.14
3.12
3.10
3.08
3.06
3.04
0
1
2
3
4
5
6
7
8
9
10
26Q40 Serial Number


1.0 GeV
1.3 GeV
0.8 GeV
26Q40 ITF
0.06%
0.04%
0.02%
0.00%
-0.02%
-0.04%
-0.06%
Deviation (Δ) from Mean (%)
0
1
2
3
4
5
6
7
8
9
26Q40 Serial Number

Summary of ITF in 26Q40 (Interpolated at 0.8, 1.0 and 1.3 GeV)

Average=	**3.2256**	**3.2099**	**3.0569**
Std.Dev.=	**0.029%**	**0.027%**	**0.031%**

Magnet	**ITF (529 A)**	**ITF (616 A)**	**ITF (775 A)**	FromMean (529 A)	FromMean (616 A)	FromMean (775 A)
S26Q01	3.2242	3.2089	3.0560	-0.043%	-0.032%	-0.029%
S26Q02	3.2263	3.2105	3.0575	0.022%	0.020%	0.021%
S26Q03	3.2265	3.2110	3.0584	0.028%	0.034%	0.052%
S26Q04	3.2251	3.2095	3.0561	-0.013%	-0.013%	-0.026%
S26Q05	3.2243	3.2088	3.0561	-0.038%	-0.034%	-0.026%
S26Q06	3.2257	3.2099	3.0564	0.005%	-0.001%	-0.014%
S26Q07	3.2257	3.2097	3.0578	0.005%	-0.005%	0.031%
S26Q08	3.2267	3.2109	3.0567	0.035%	0.032%	-0.007%


Diff. between Magnetic and Mechanical Centers in 26Q40
0.20
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
Vertical (mm)
0.1 mm radius zone
σhorizontal = 0.063 mm
σvertical = 0.059 mm
-0.20
-0.15
-0.10
-0.05
0.00
0.05
0.10
0.15
0.20
Horizontal (mm)

Survey and Magnetic Roll Data in 26Q40 Quads