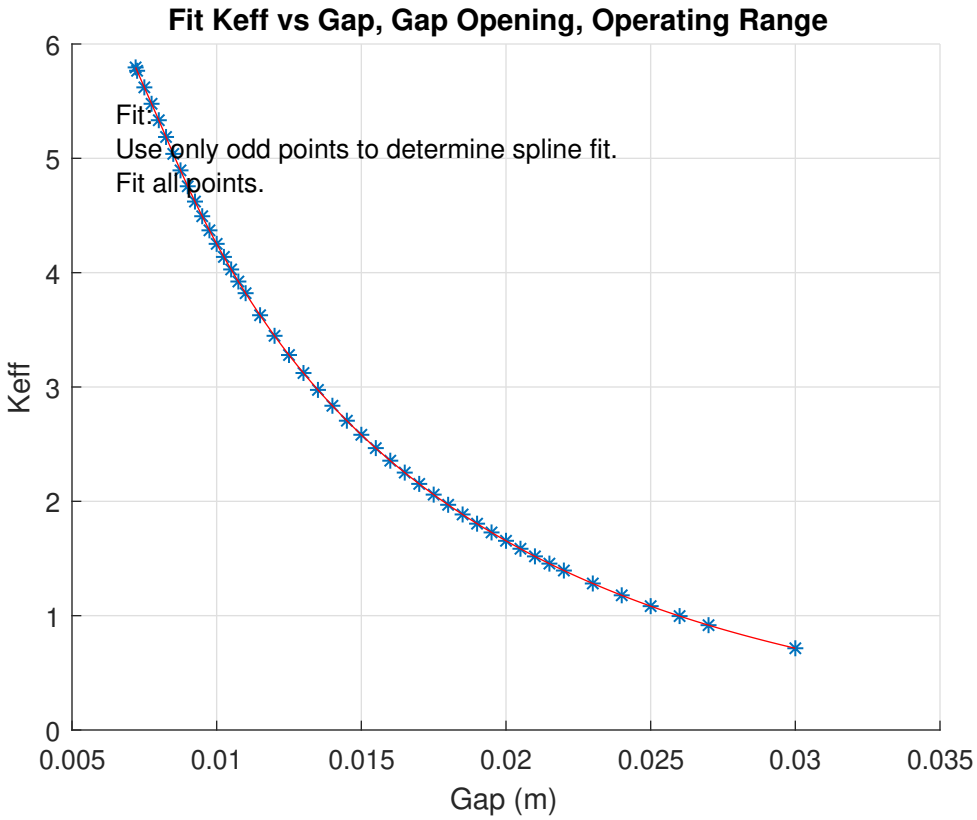
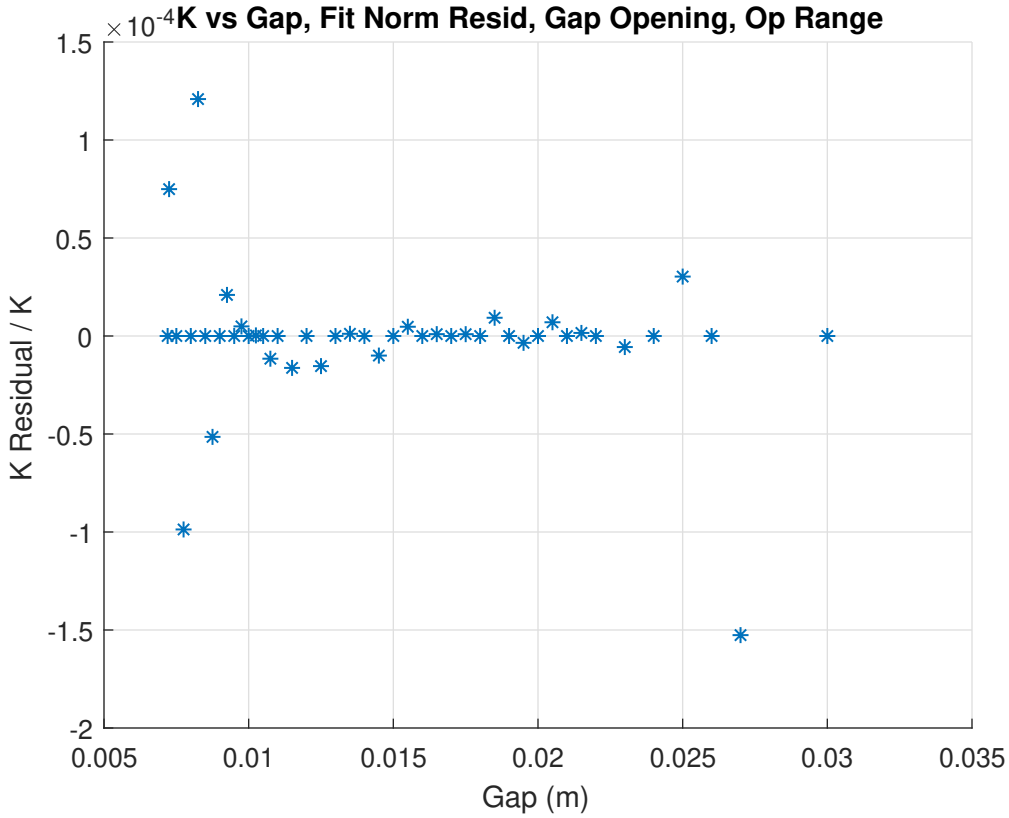
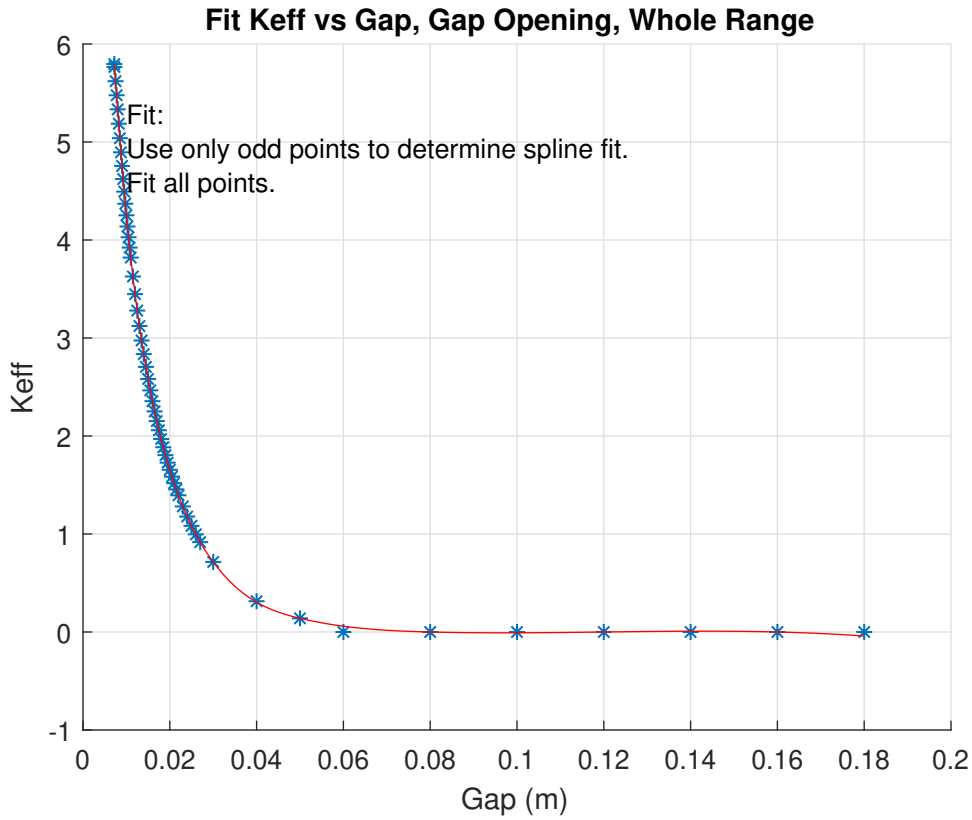
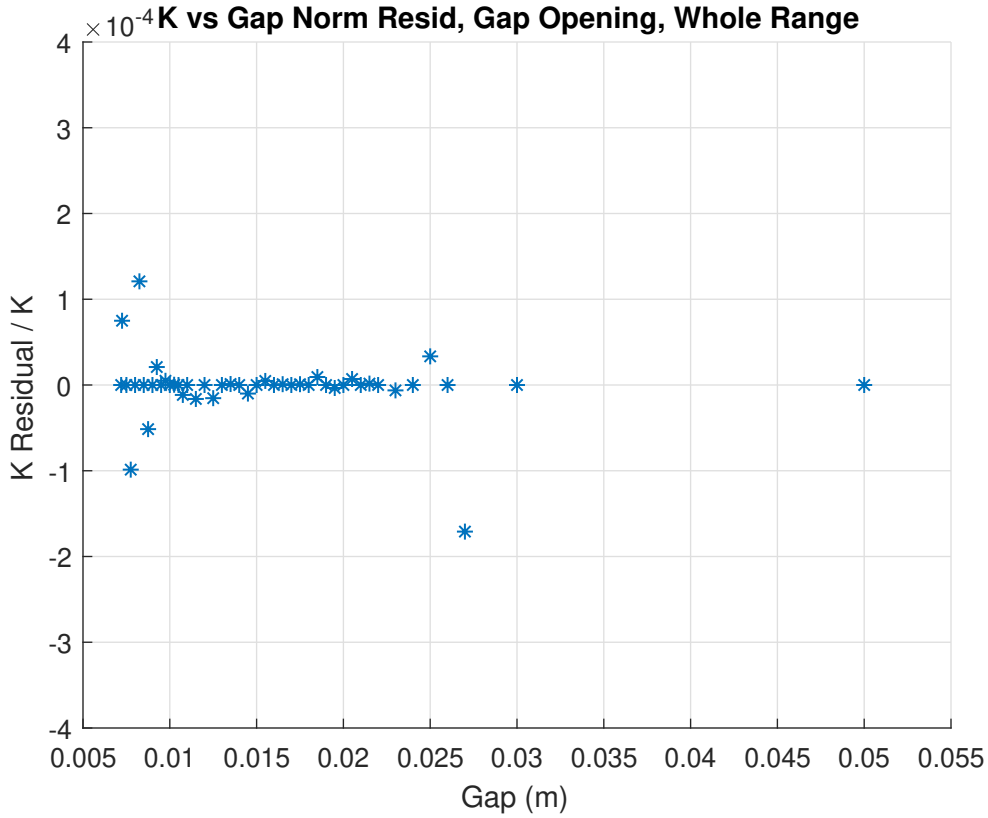
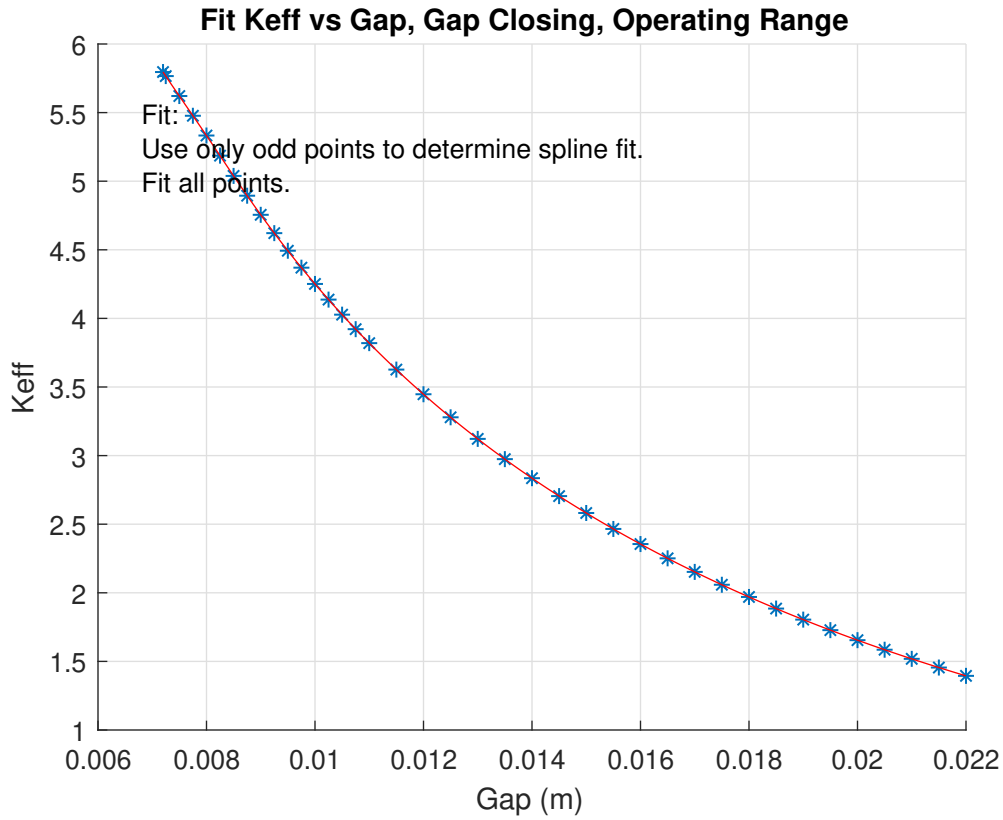
SLAC Magnetic Measurements#
Date: 10-25-2017#
Time: 15:02:20#

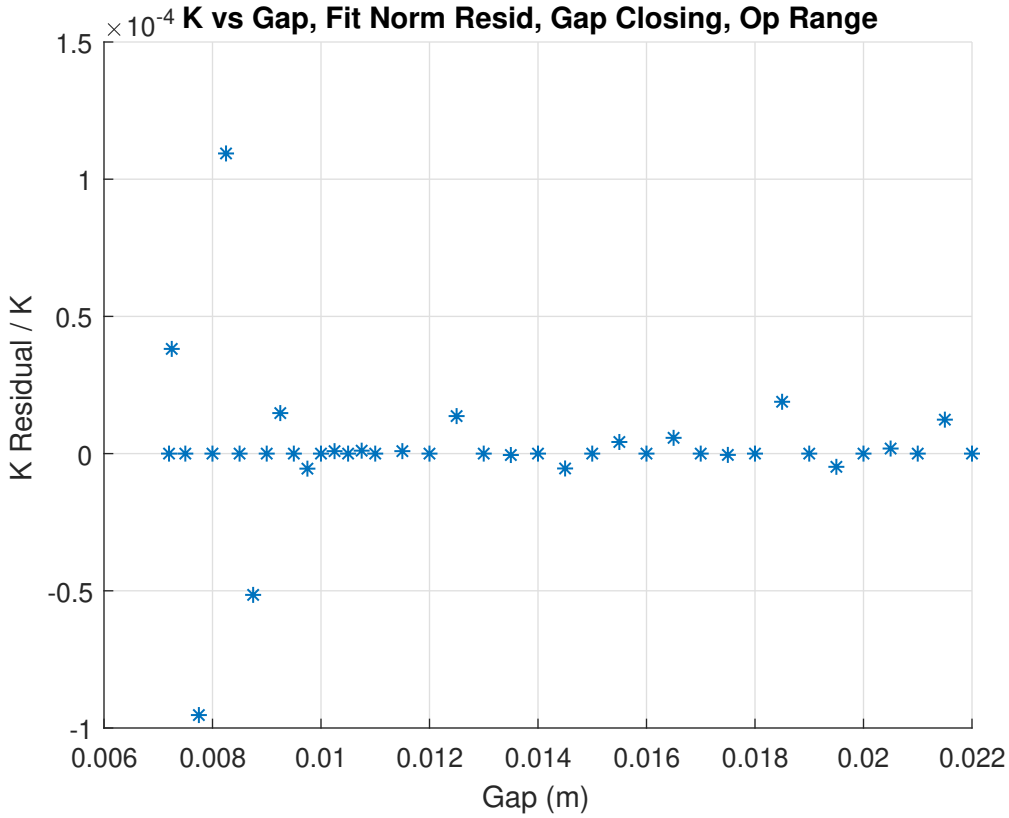

Fit Keff vs Gap, Gap Opening, Operating Range
Fit:
Use only odd points to determine spline fit.
Fit all points.
Keff
Gap (m)
0
1
2
3
4
5
6
0.005
0.01
0.015
0.02
0.025
0.03
0.035

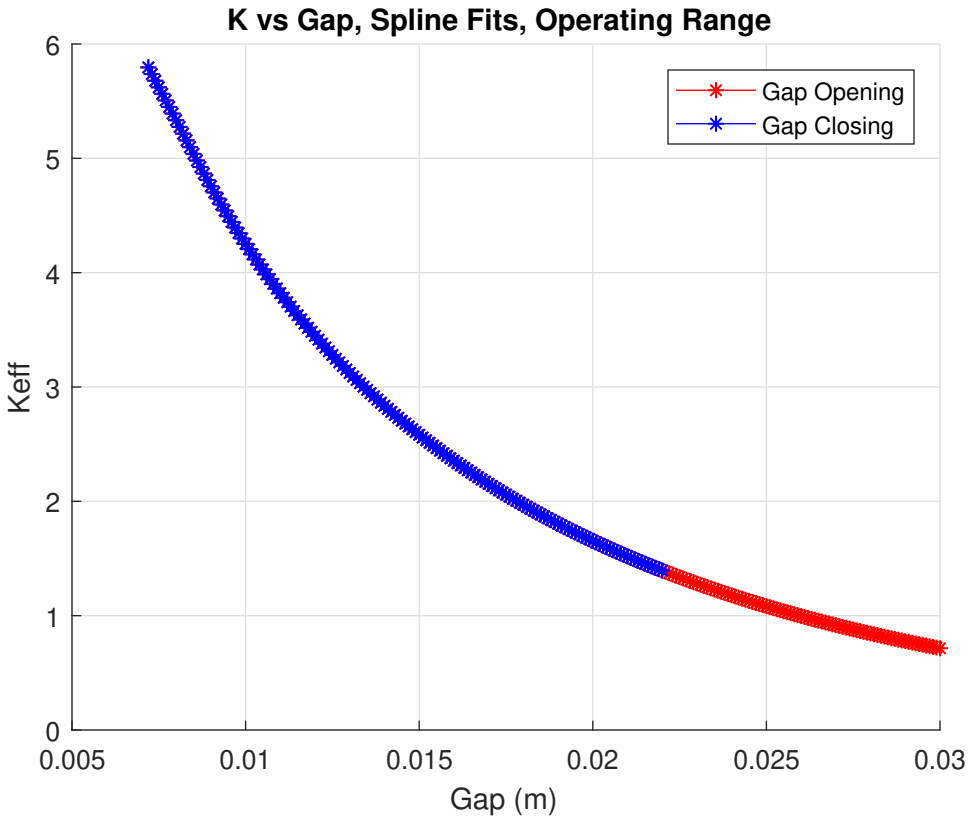

K vs Gap, Fit Norm Resid, Gap Opening, Op Range
×10-4
1.5
1
0.5
0
-0.5
-1
-1.5
-2
K Residual / K
0.005
0.01
0.015
0.02
0.025
0.03
0.035
Gap (m)

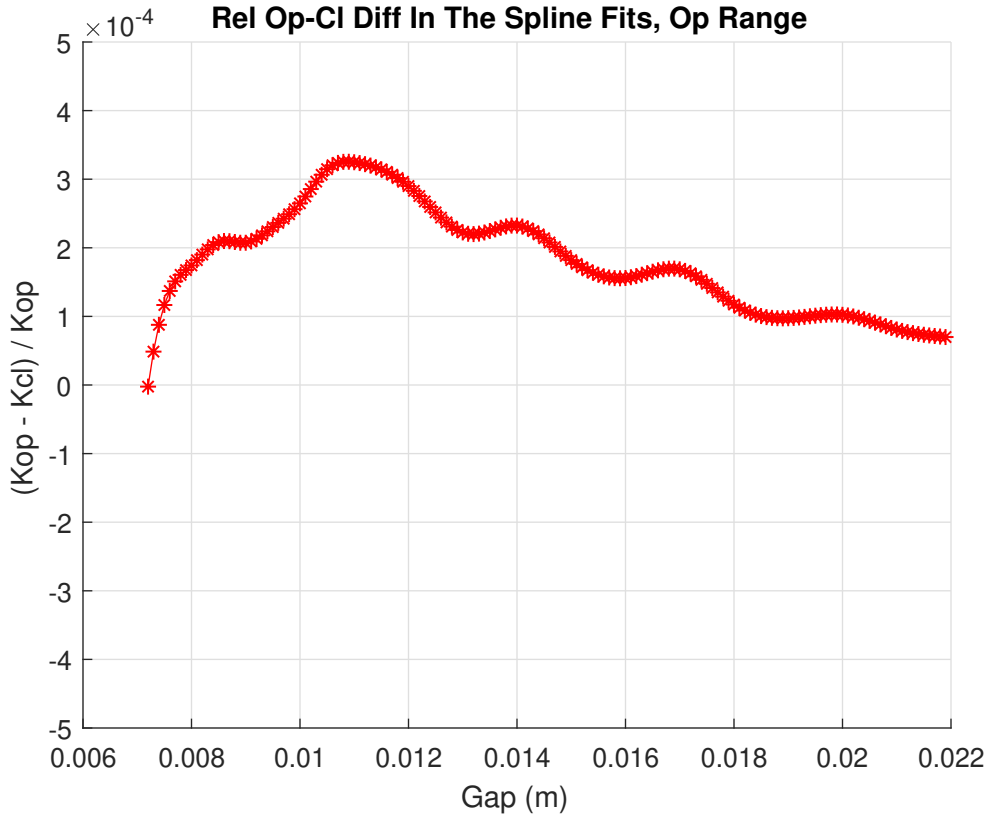

Fit Keff vs Gap, Gap Opening, Whole Range
Fit:
Use only odd points to determine spline fit.
Fit all points.
Keff
Gap (m)
6
5
4
3
2
1
0
-1
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2


K vs Gap Norm Resid, Gap Opening, Whole Range
×10^-4
4
3
2
1
0
-1
-2
-3
-4
K Residual / K
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
Gap (m)


Fit Keff vs Gap, Gap Closing, Operating Range
Fit:
Use only odd points to determine spline fit.
Fit all points.
Keff
Gap (m)
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.006
0.008
0.01
0.012
0.014
0.016
0.018
0.02
0.022


K vs Gap, Fit Norm Resid, Gap Closing, Op Range
×10^-4
1.5
1
0.5
0
-0.5
-1
K Residual / K
0.006
0.008
0.01
0.012
0.014
0.016
0.018
0.02
0.022
Gap (m)


K vs Gap, Spline Fits, Operating Range
Gap Opening
Gap Closing
Keff
Gap (m)
0
1
2
3
4
5
6
0.005
0.01
0.015
0.02
0.025
0.03


Rel Op-Cl Diff In The Spline Fits, Op Range
×10-4
5
4
3
2
1
0
-1
-2
-3
-4
-5
(Kop - Kcl) / Kop
0.006
0.008
0.01
0.012
0.014
0.016
0.018
0.02
0.022
Gap (m)