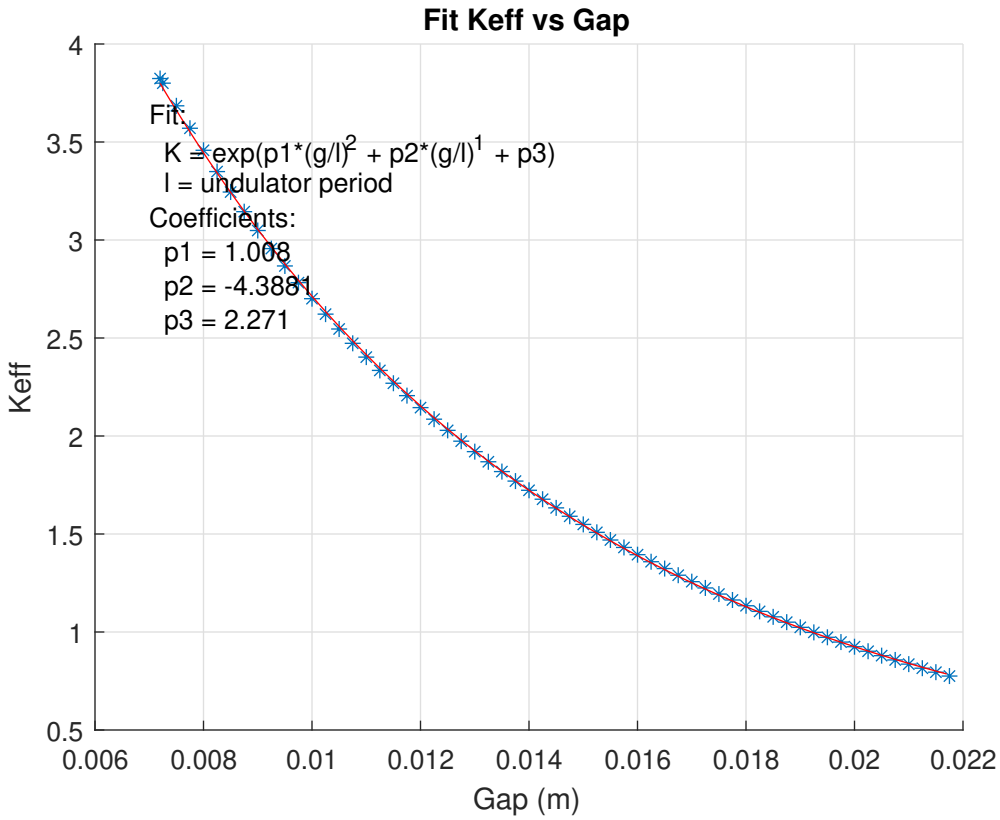
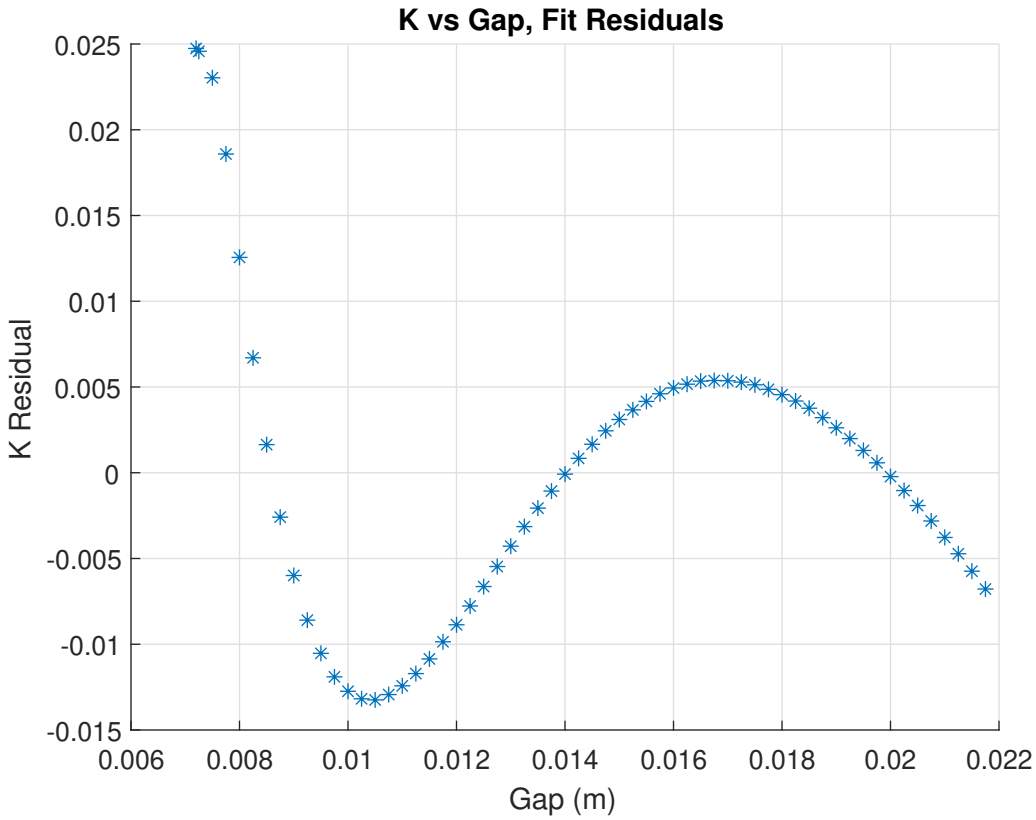
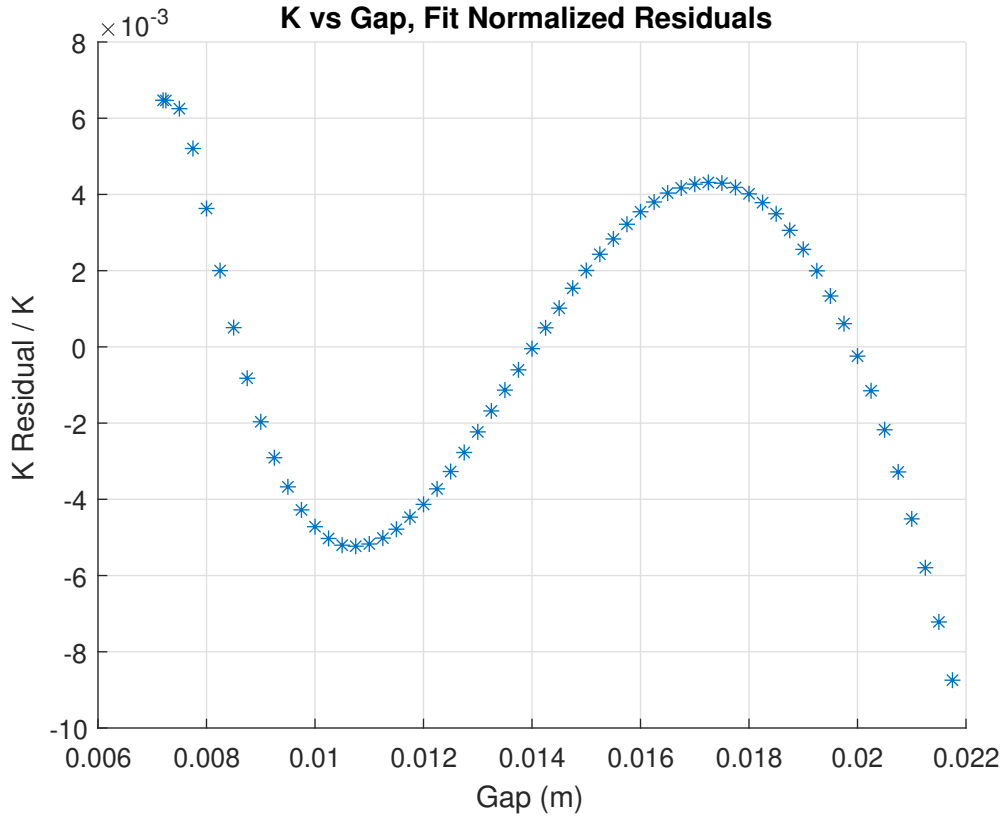
SLAC Magnetic Measurements#
Date: 12-15-2016#
Time: 11:37:58#


Fit Keff vs Gap
Fit:
K = exp(p1*(g/l)^2 + p2*(g/l)^1 + p3)
l = undulator period
Coefficients:
p1 = 1.008
p2 = -4.3881
p3 = 2.271
Keff
Gap (m)
4
3.5
3
2.5
2
1.5
1
0.5
0.006
0.008
0.01
0.012
0.014
0.016
0.018
0.02
0.022


K vs Gap, Fit Residuals
K Residual
Gap (m)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
0.006
0.008
0.01
0.012
0.014
0.016
0.018
0.02
0.022


K vs Gap, Fit Normalized Residuals
×10-3
8
6
4
2
0
-2
-4
-6
-8
-10
K Residual / K
0.006
0.008
0.01
0.012
0.014
0.016
0.018
0.02
0.022
Gap (m)