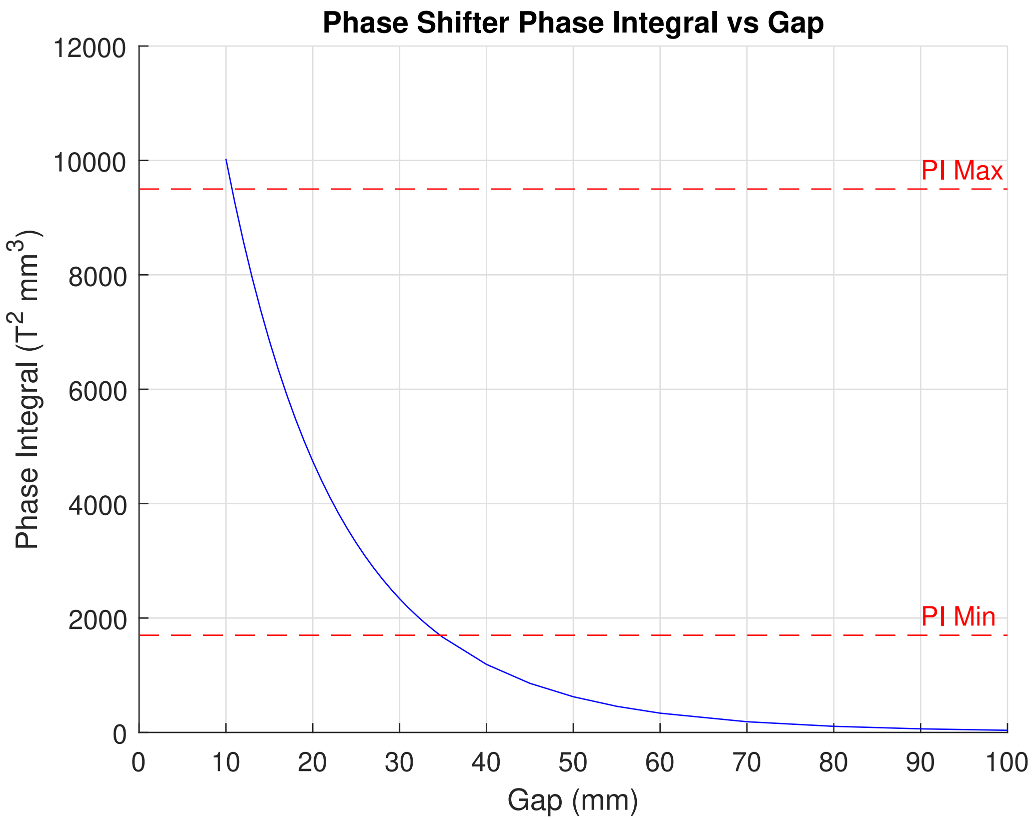
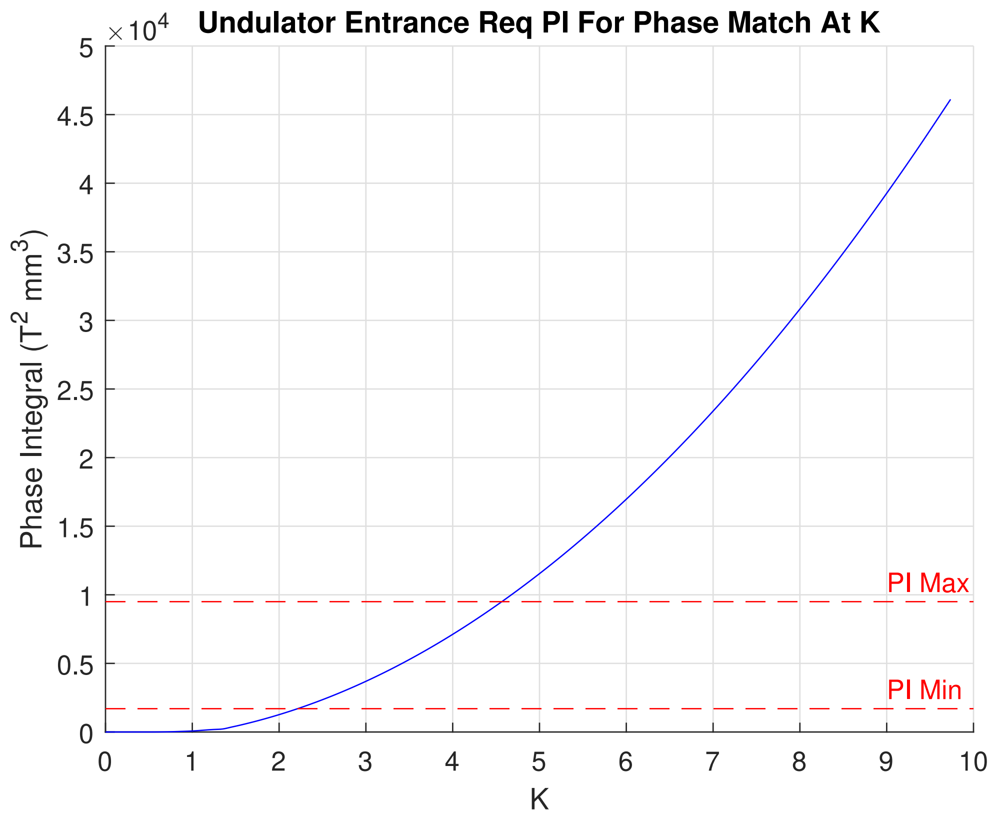
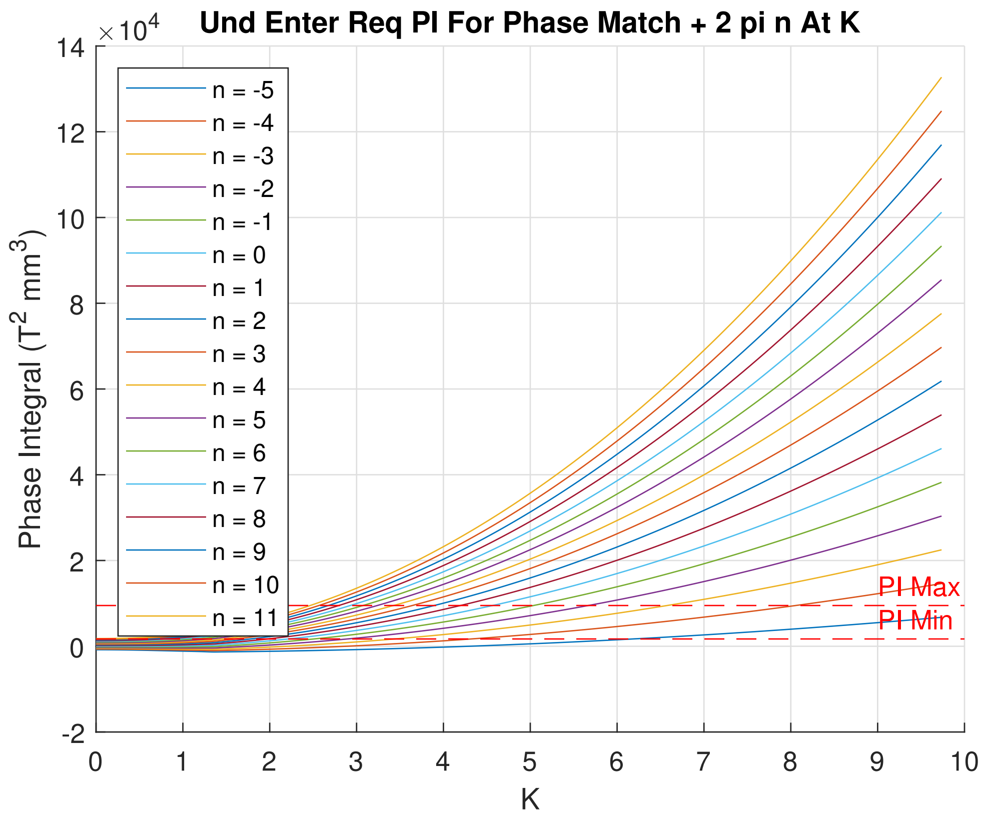
SLAC Magnetic Measurements#
Date: 11-10-2022#
Time: 09:26:36#

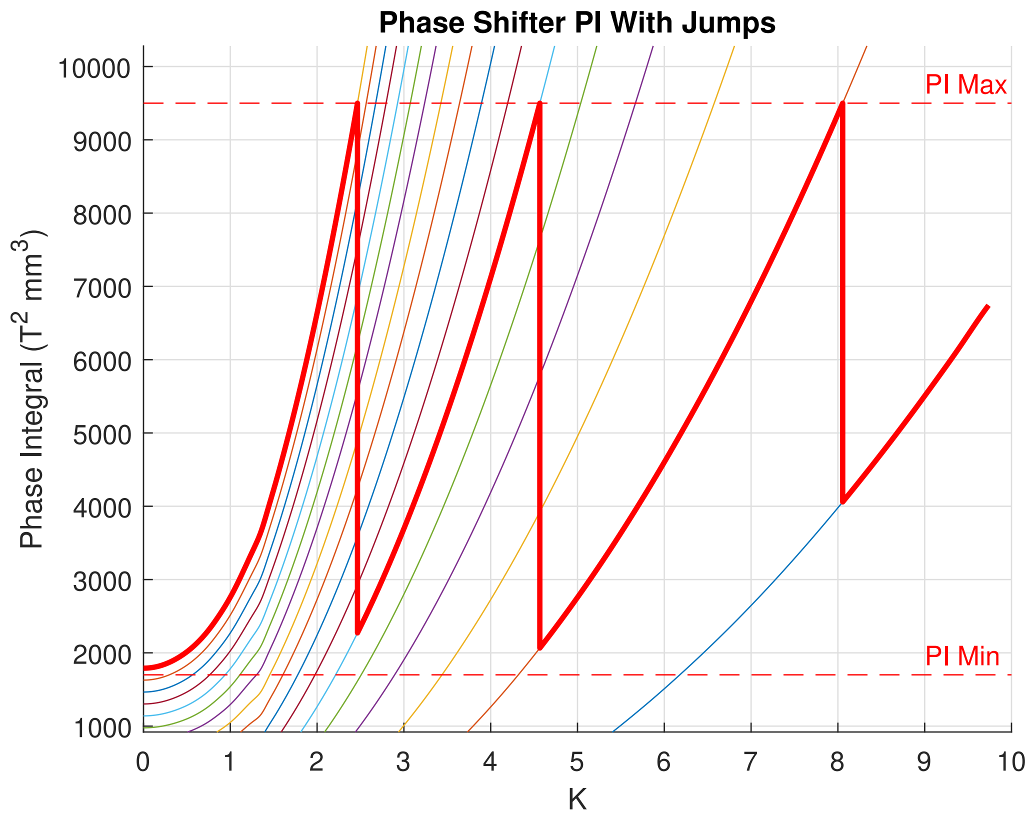


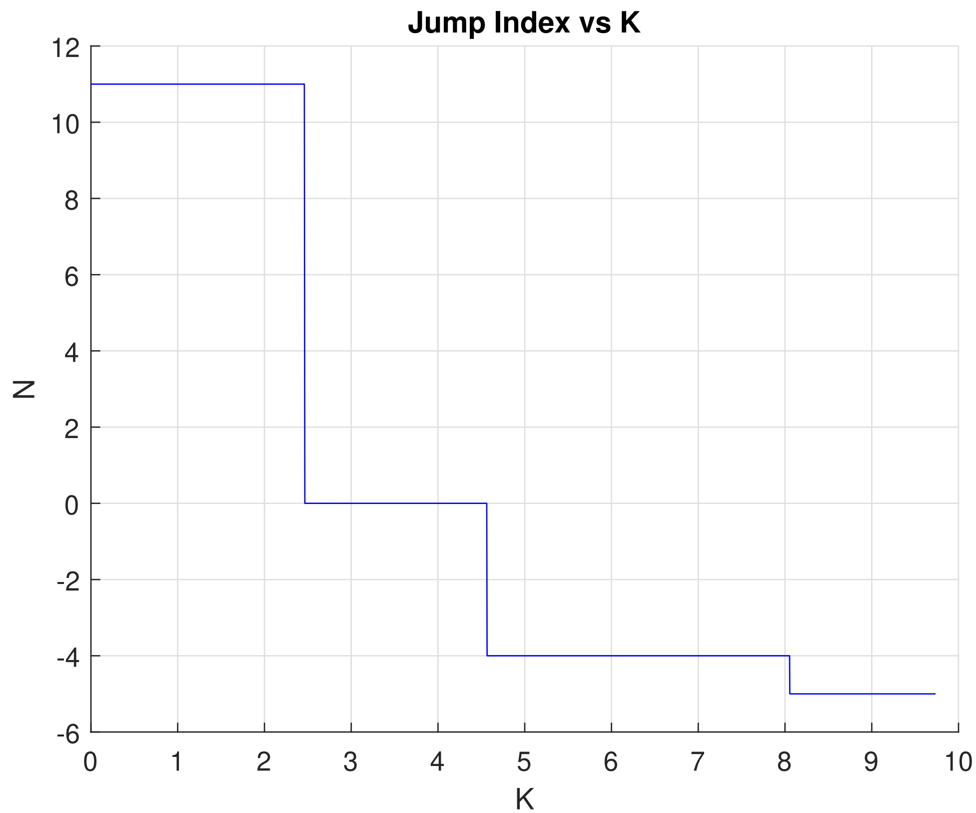
Phase Shifter Phase Integral vs Gap
Phase Integral (T^2 mm^3)
Gap (mm)
PI Max
PI Min
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60
70
80
90
100

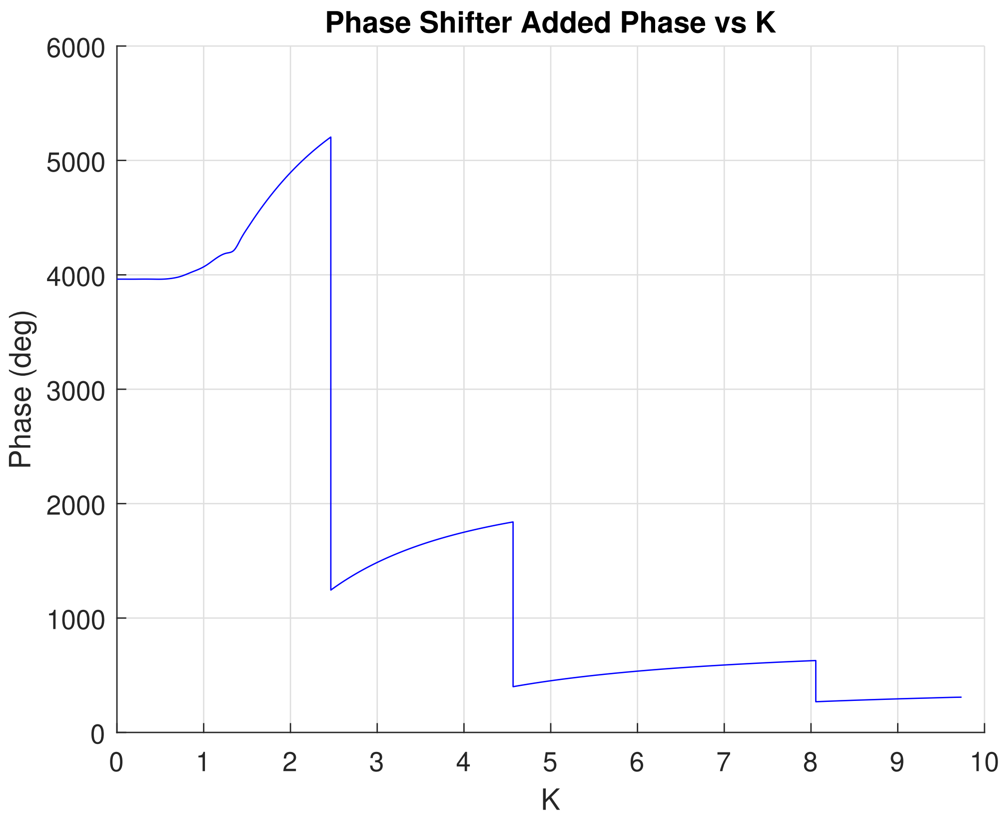


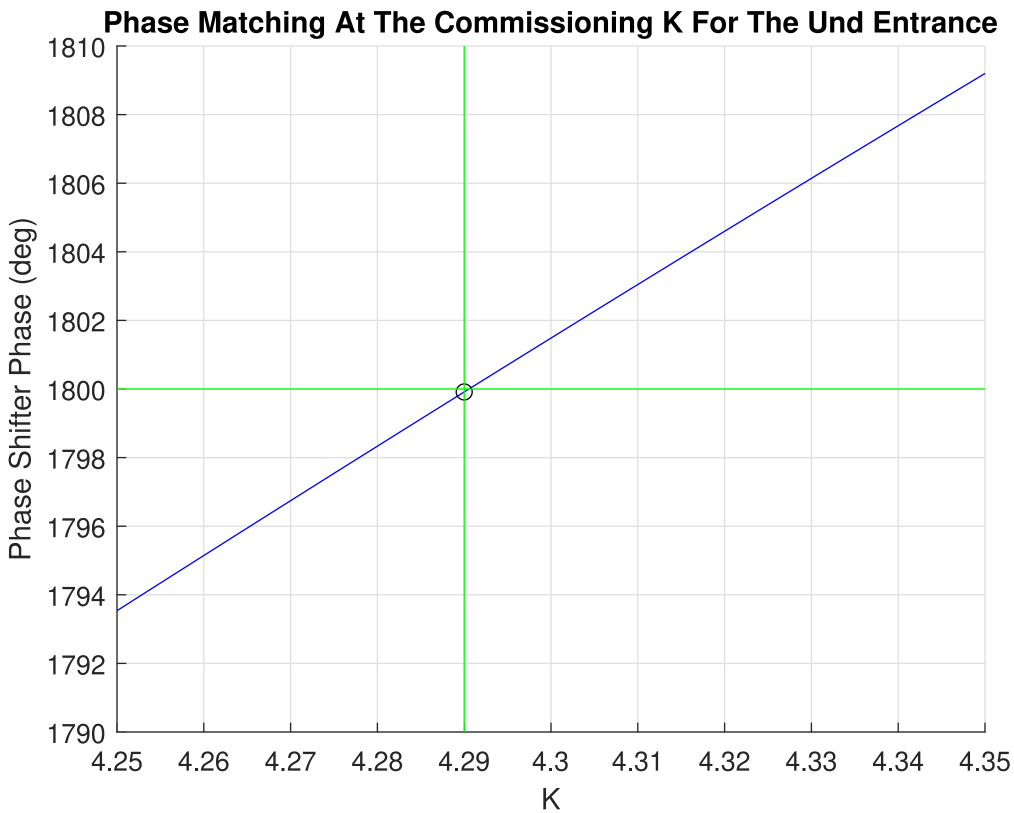
Undulator Entrance Req PI For Phase Match At K
Phase Integral (T^2 mm^3)
×10^4
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
PI Max
PI Min
0
1
2
3
4
5
6
7
8
9
10
K


Und Enter Req PI For Phase Match + 2 pi n At K
$\times 10^4$
14
12
10
8
6
4
2
0
-2
Phase Integral (T^2 mm^3)
0
1
2
3
4
5
6
7
8
9
10
K
n = -5
n = -4
n = -3
n = -2
n = -1
n = 0
n = 1
n = 2
n = 3
n = 4
n = 5
n = 6
n = 7
n = 8
n = 9
n = 10
n = 11
PI Max
PI Min

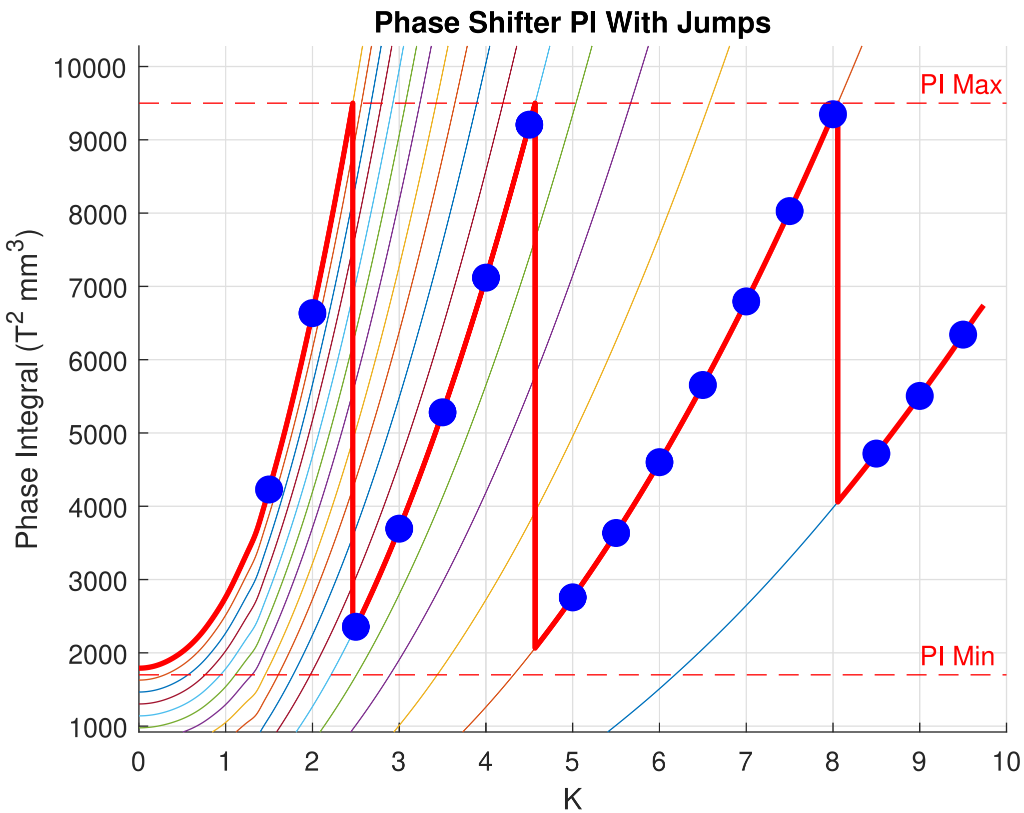

Phase Shifter PI With Jumps
Phase Integral (T^2 mm^3)
K
PI Max
PI Min
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1
2
3
4
5
6
7
8
9
10


Jump Index vs K
N
K
12
10
8
6
4
2
0
-2
-4
-6
0
1
2
3
4
5
6
7
8
9
10


Phase Shifter Added Phase vs K
6000
5000
4000
3000
2000
1000
0
Phase (deg)
0
1
2
3
4
5
6
7
8
9
10
K



Phase Matching At The Commissioning K For The Und Entrance
Phase Shifter Phase (deg)
1810
1808
1806
1804
1802
1800
1798
1796
1794
1792
1790
4.25
4.26
4.27
4.28
4.29
4.3
4.31
4.32
4.33
4.34
4.35
K



Phase Shifter PI With Jumps
PI Max
PI Min
Phase Integral (T^2 mm^3)
K
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1
2
3
4
5
6
7
8
9
10