

Off-Diagonal Heat Kernel for $M = 4$
with Klein Bottle Horizontal Glued Identifications

SPUR 2016

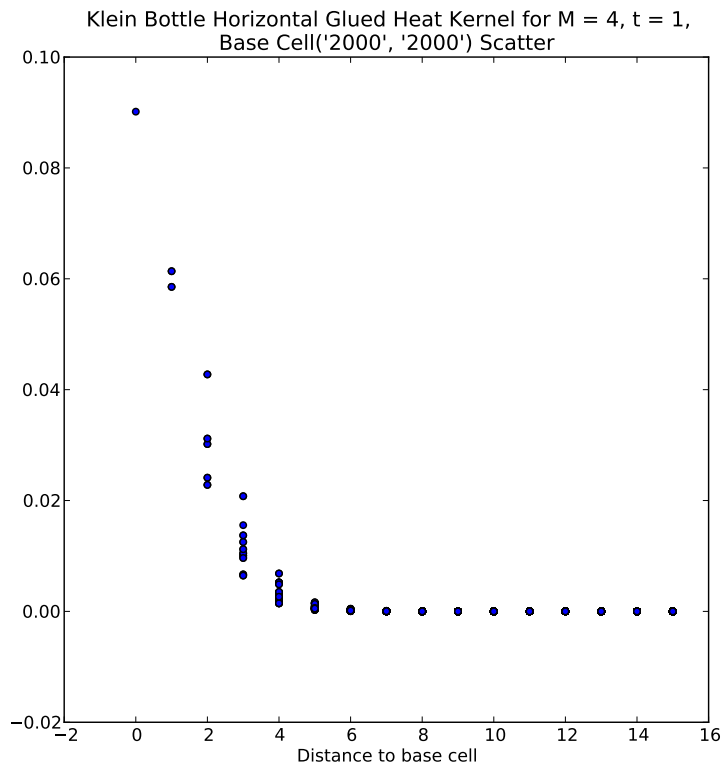
August 2, 2016

Note: All negative values with absolute value $< 1 \times 10^{-10}$ were treated as e^{-35} . No negative values with absolute value $\geq 1 \times 10^{-10}$ were encountered.

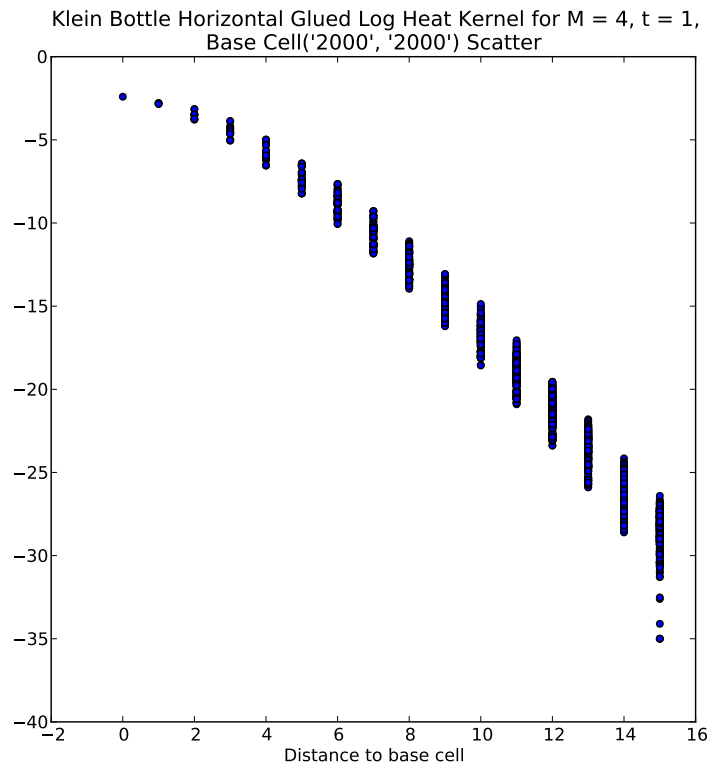
1 Base Cell('2000', '2000')

1.1 $t = 1$

(Regular)

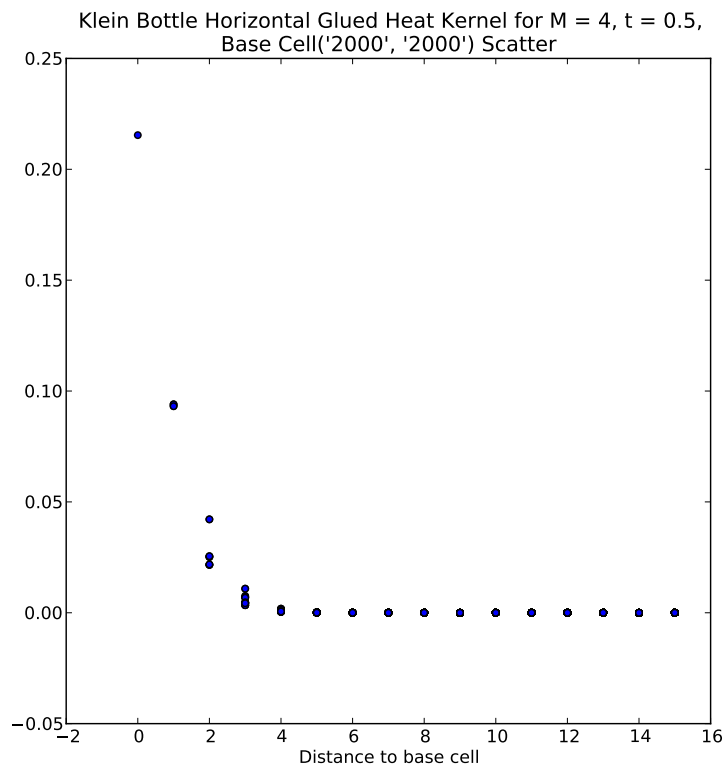


(Log)

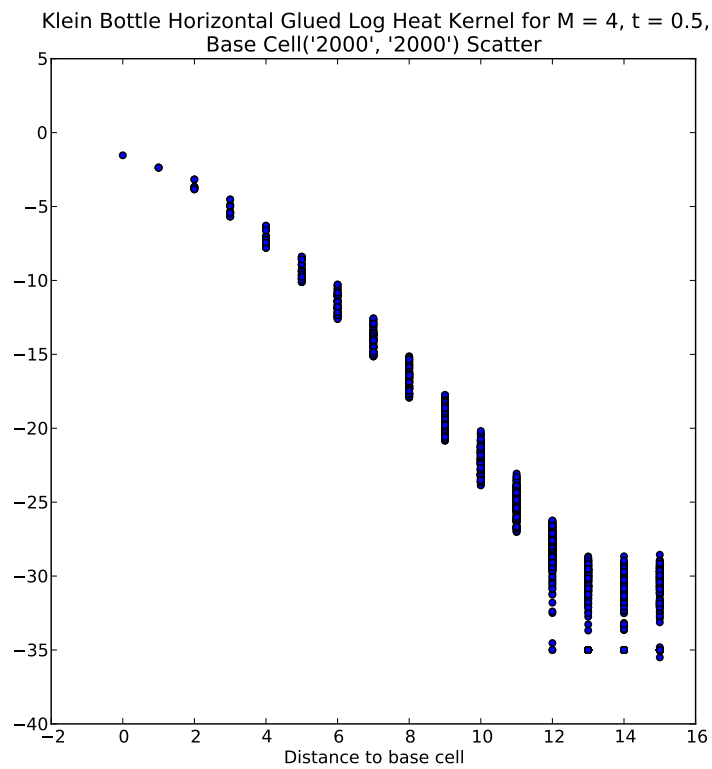


1.2 $t = 0.5$

(Regular)

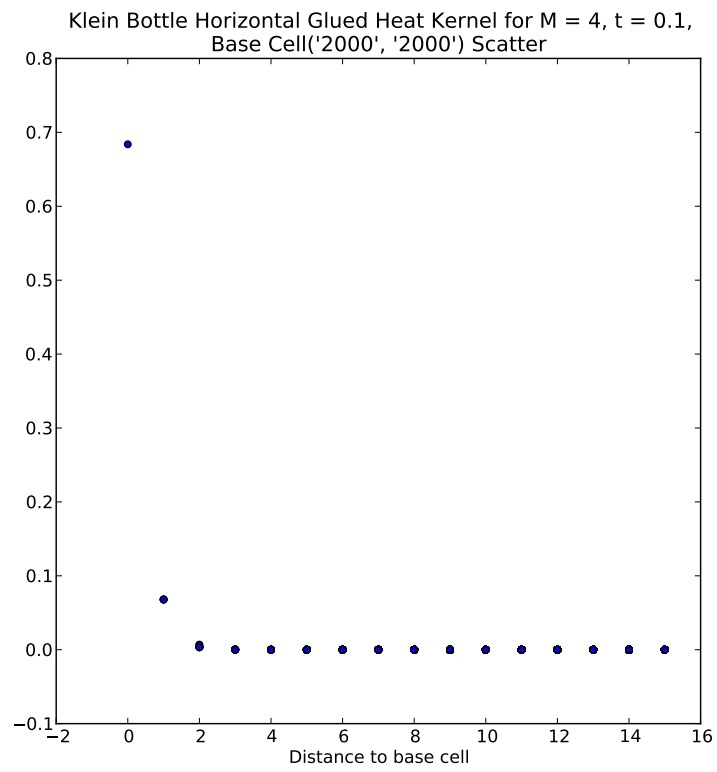


(Log)

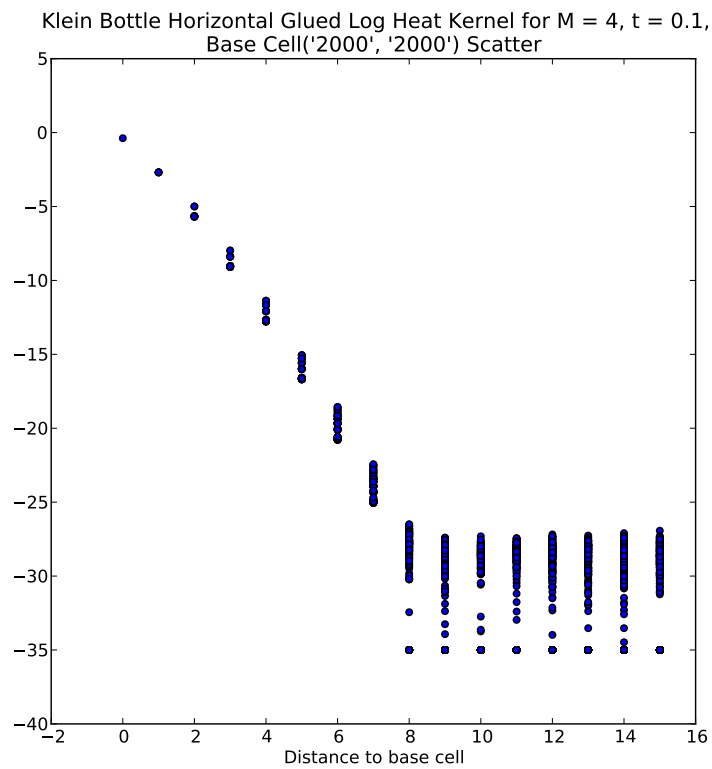


1.3 $t = 0.1$

(Regular)

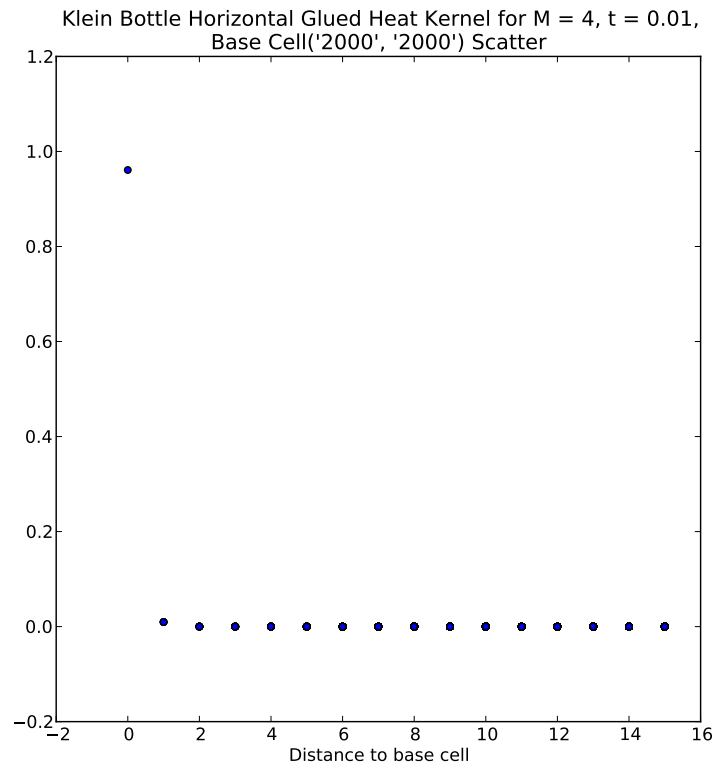


(Log)

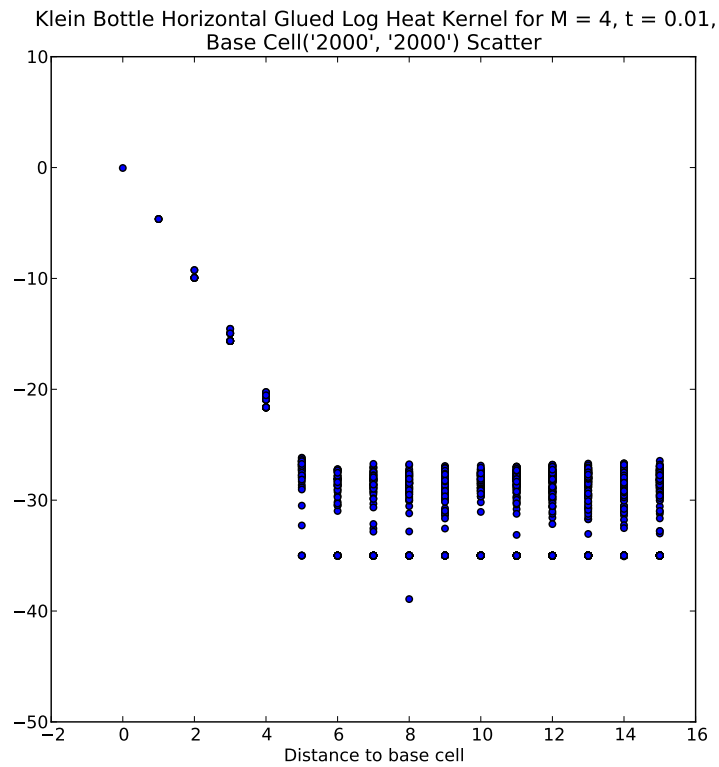


1.4 $t = 0.01$

(Regular)



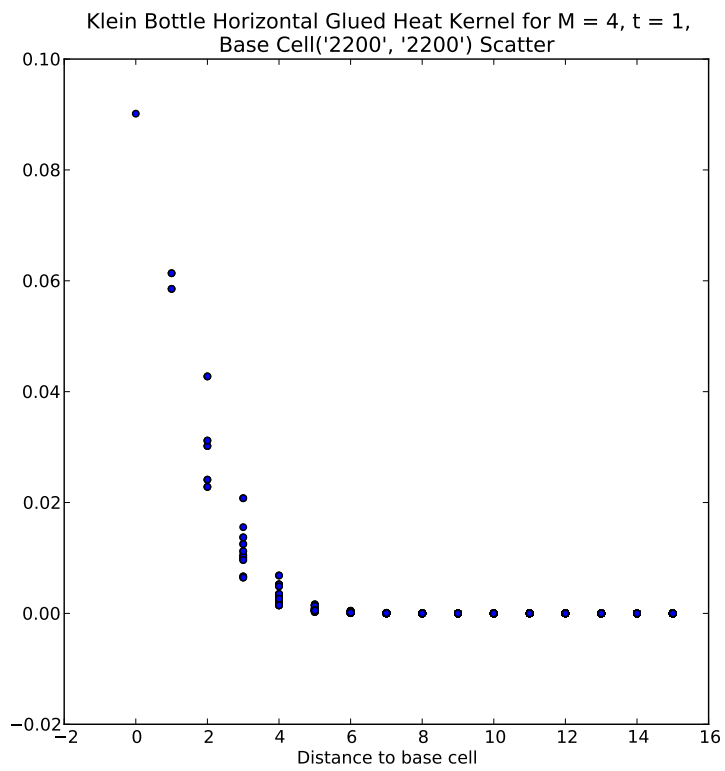
(Log)



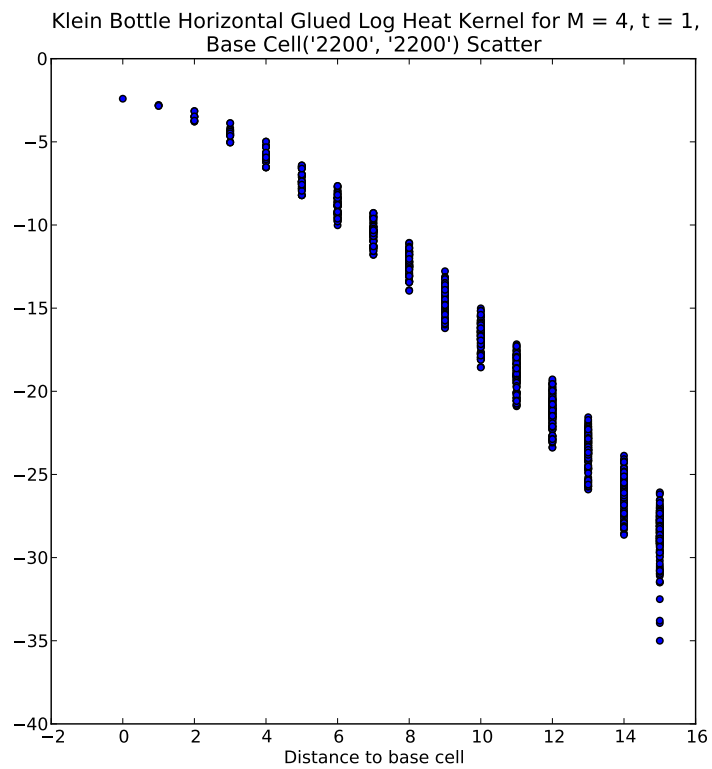
2 Base Cell('2200', '2200')

2.1 $t = 1$

(Regular)

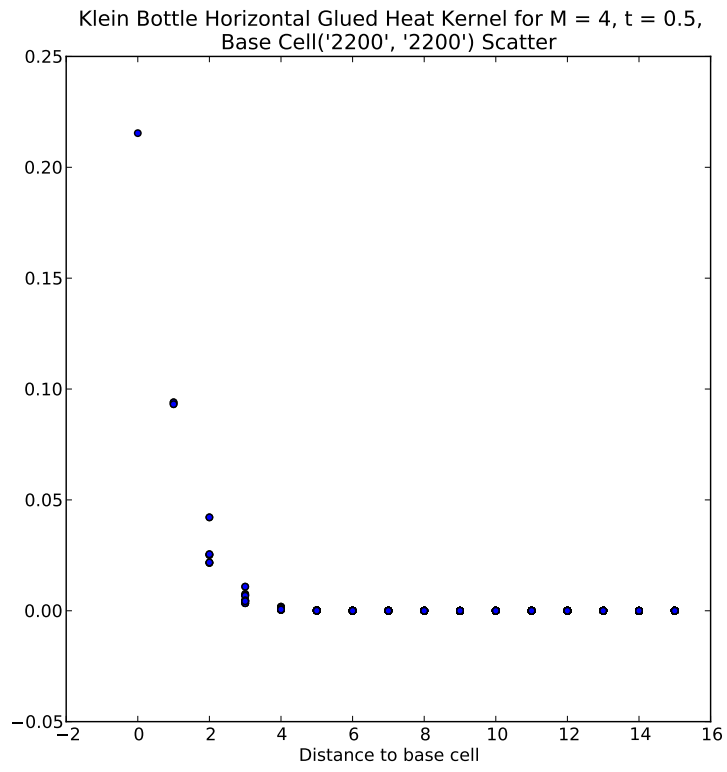


(Log)

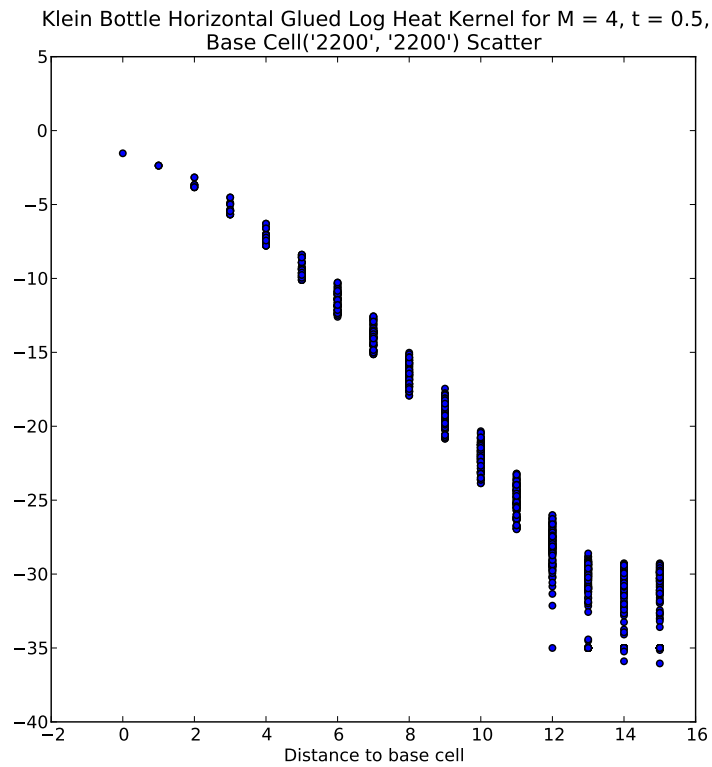


2.2 $t = 0.5$

(Regular)

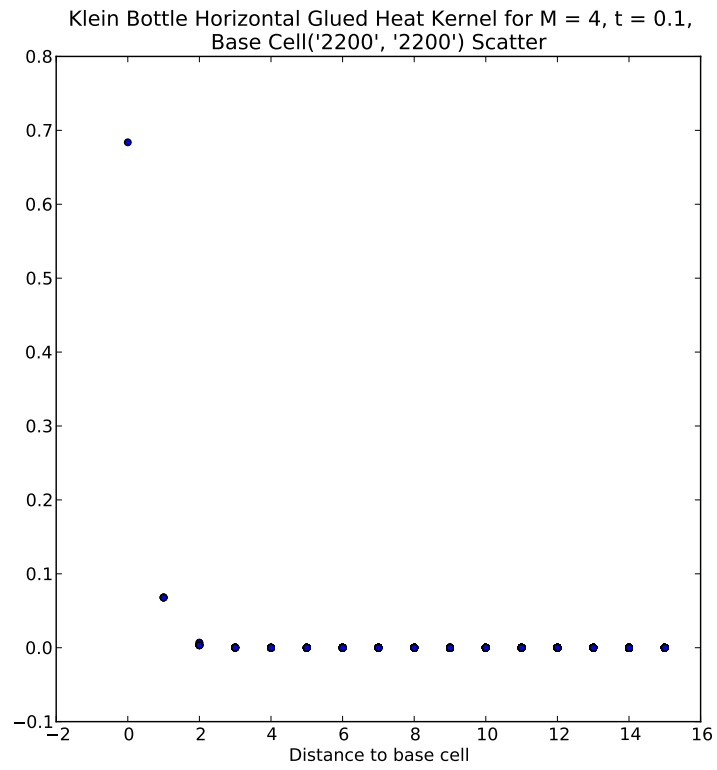


(Log)

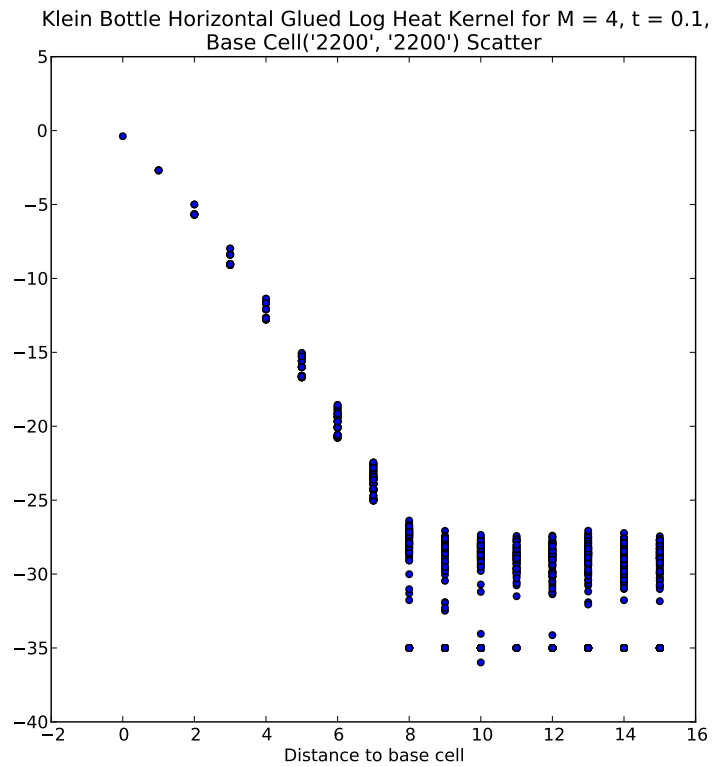


2.3 $t = 0.1$

(Regular)

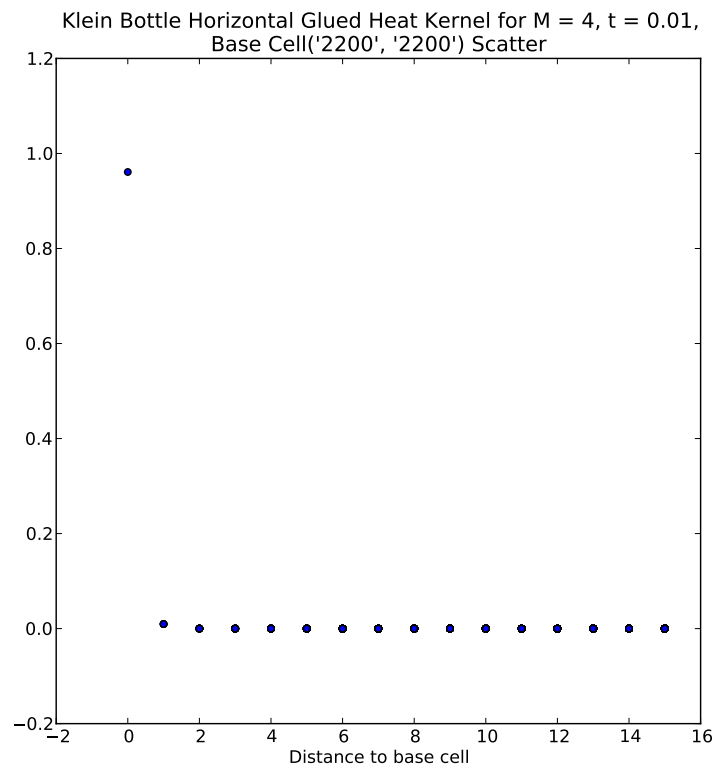


(Log)

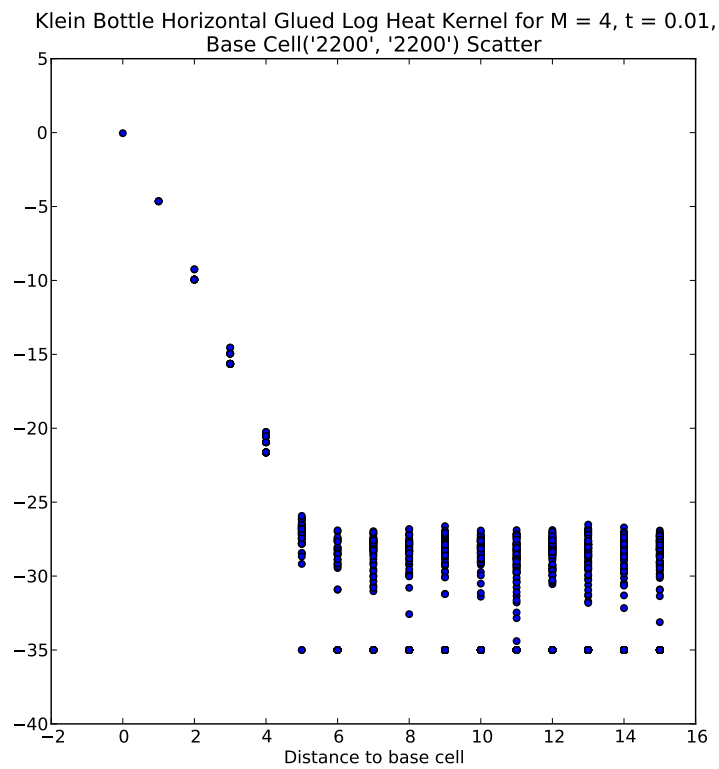


2.4 $t = 0.01$

(Regular)



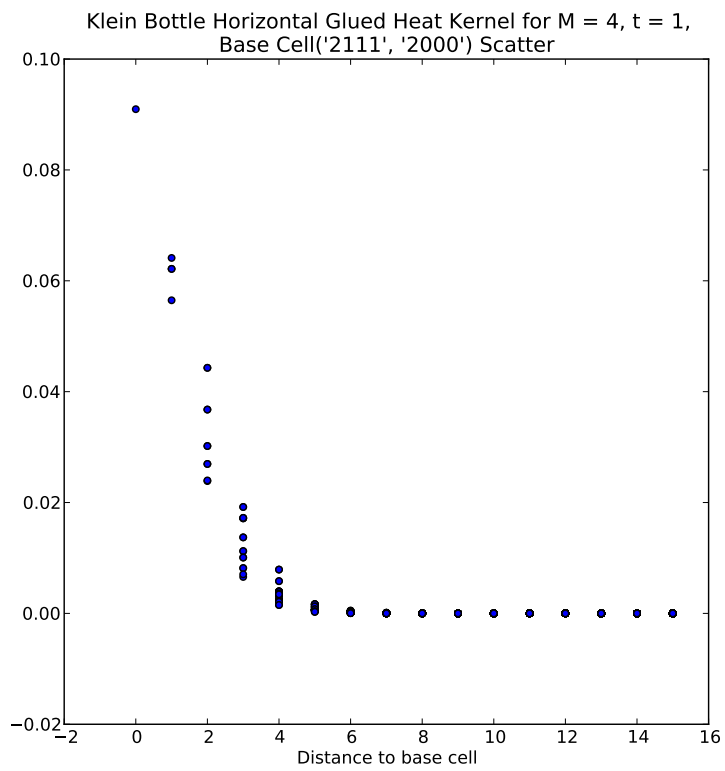
(Log)



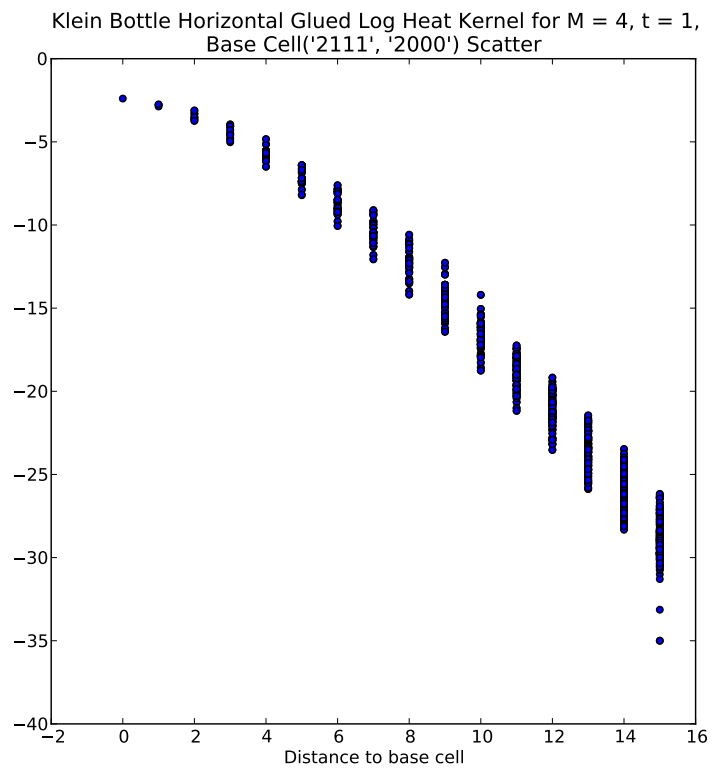
3 Base Cell('2111', '2000')

3.1 $t = 1$

(Regular)

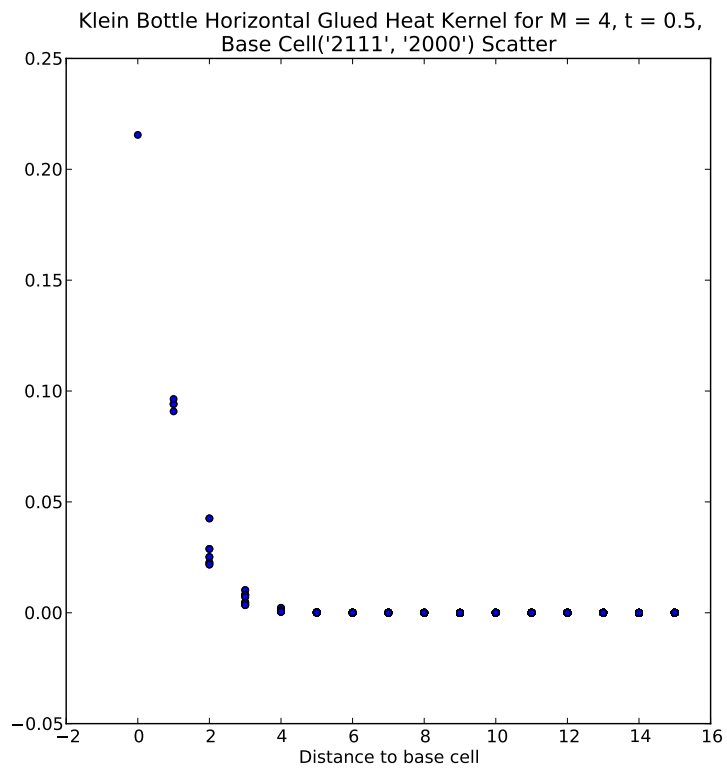


(Log)

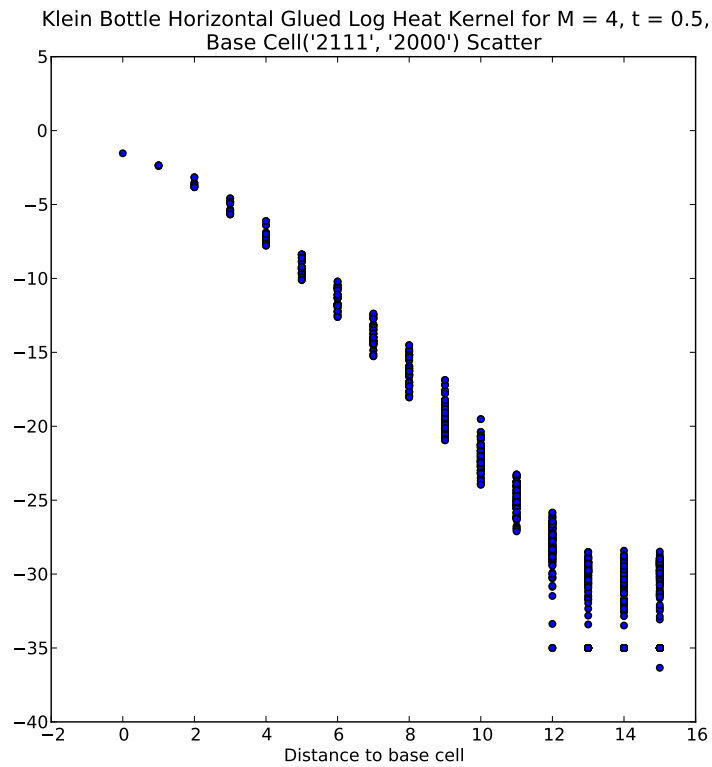


3.2 $t = 0.5$

(Regular)

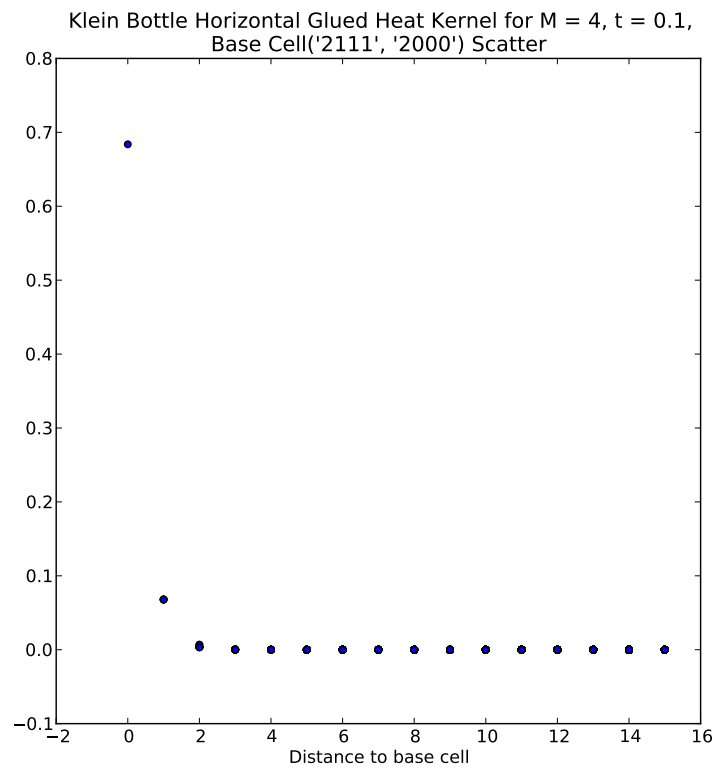


(Log)

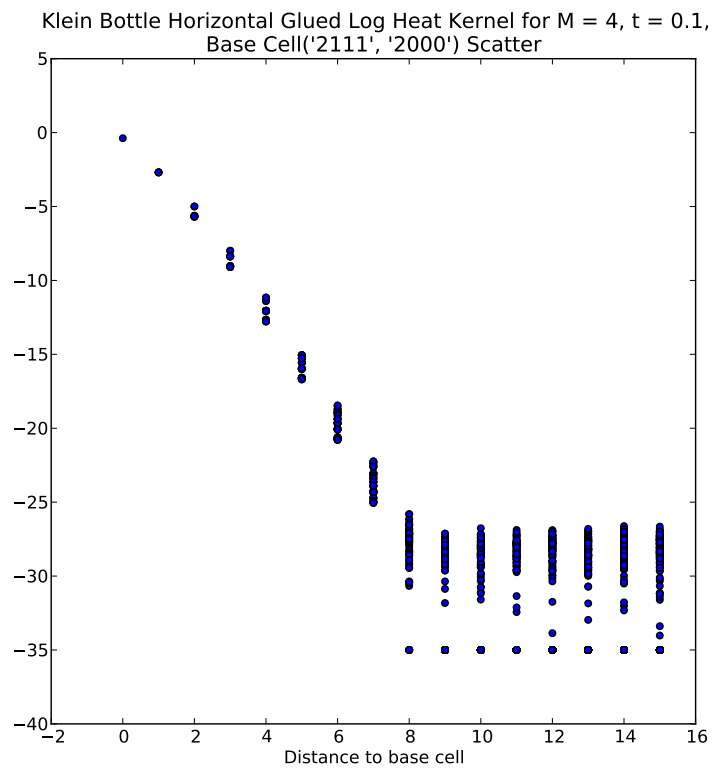


3.3 $t = 0.1$

(Regular)

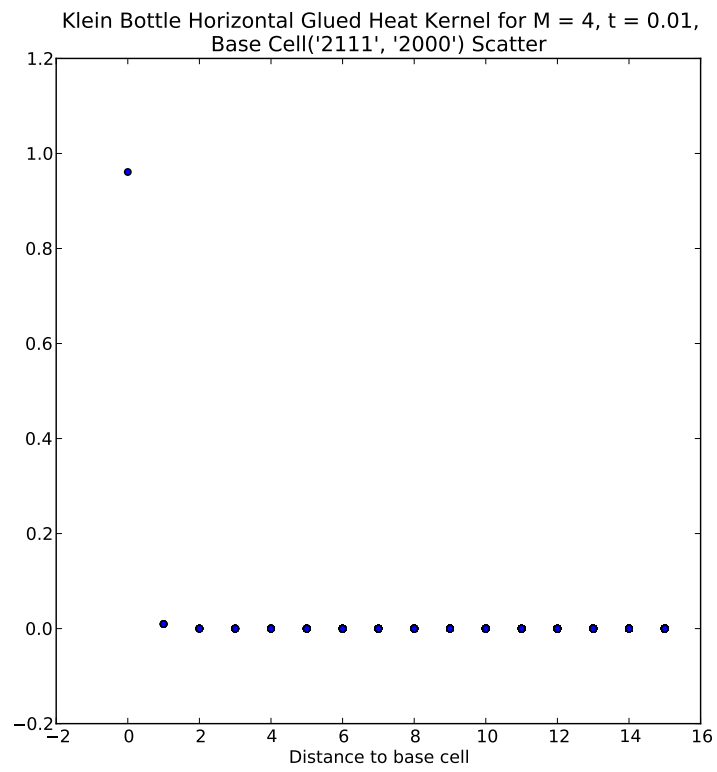


(Log)



3.4 $t = 0.01$

(Regular)



(Log)

