

Harmonic Functions for $M = 4$ with Projective Plane Identifications

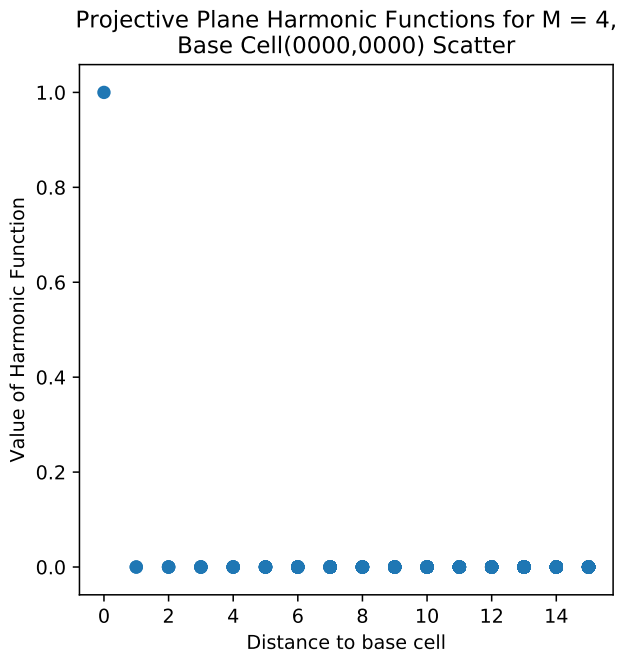
SPUR 2016

June 23, 2018

Note: The log-log plots omit all boundary cells, for either these have function value zero or the cell is the base cell. The first log-log plot also is not shown, since this harmonic function is zero throughout the interior cells.

1 Base Cell(0000,0000)

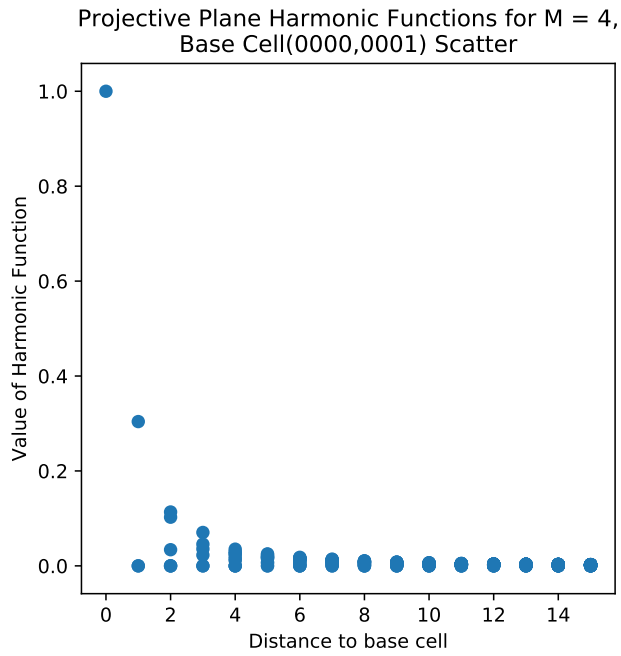
(Regular)



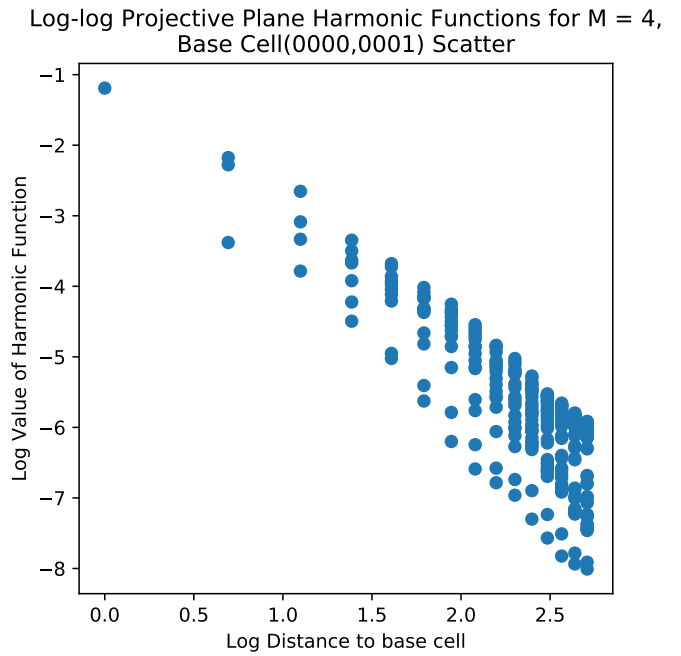
(Log)

2 Base Cell(0000,0001)

(Regular)

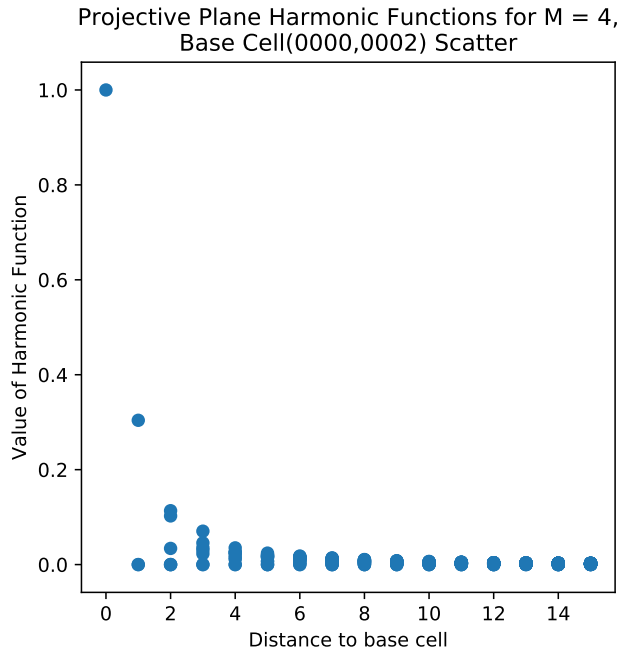


(Log)

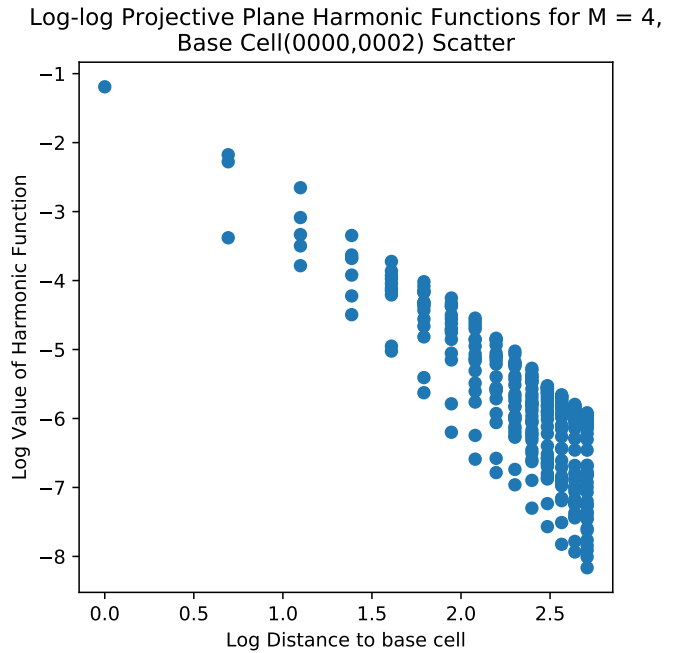


3 Base Cell(0000,0002)

(Regular)

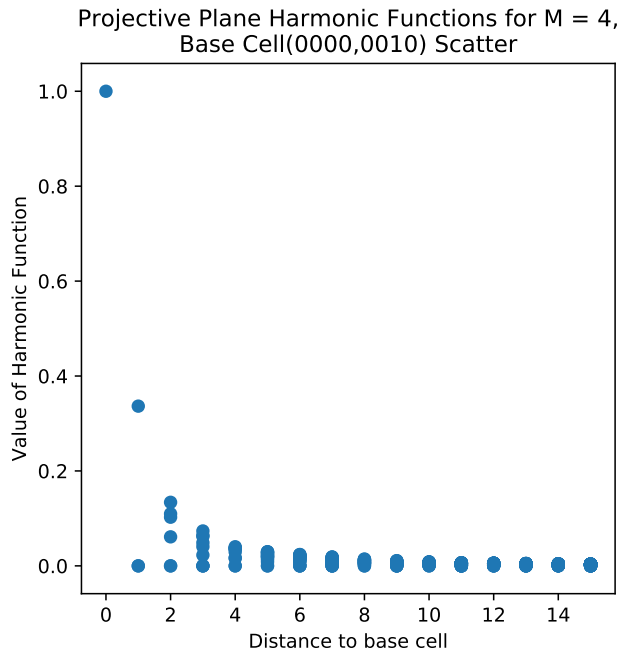


(Log)

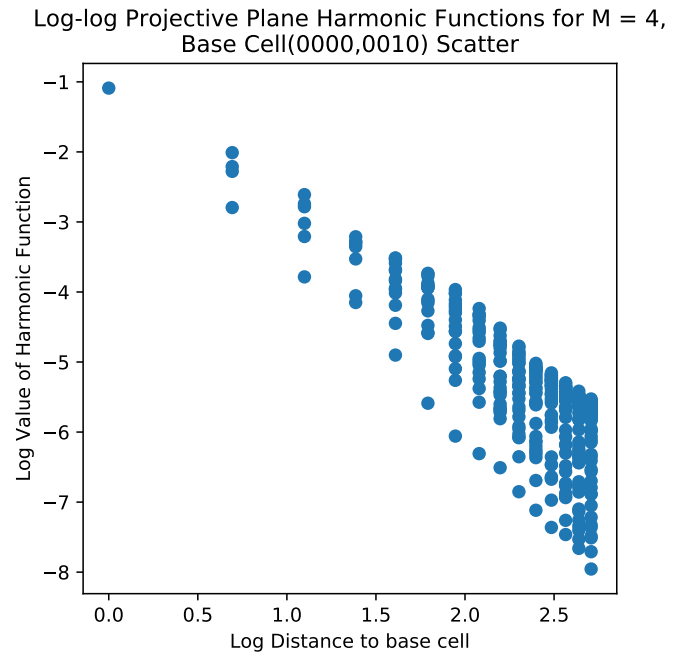


4 Base Cell(0000,0010)

(Regular)

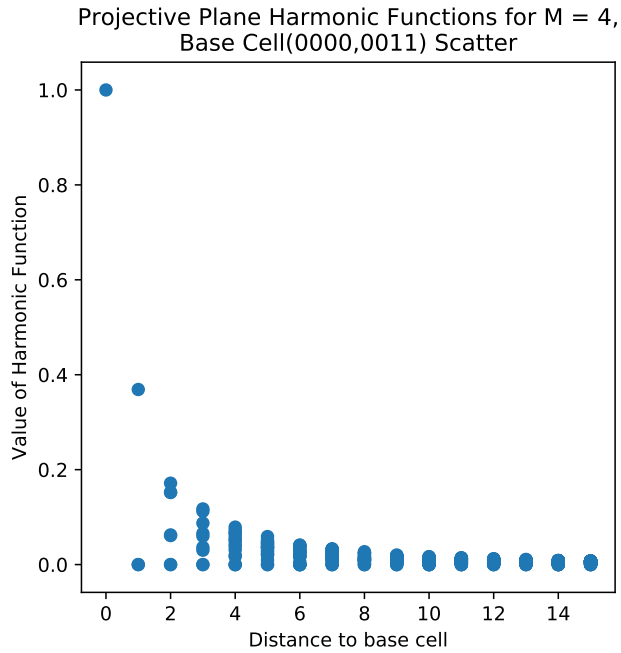


(Log)

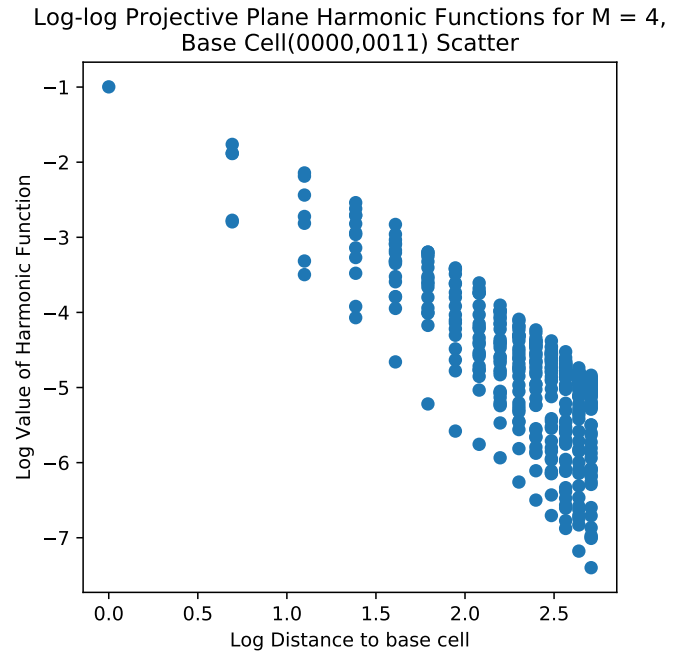


5 Base Cell(0000,0011)

(Regular)



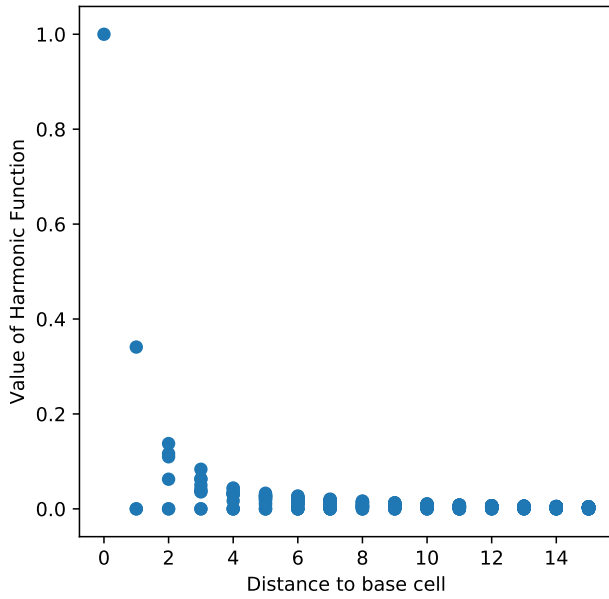
(Log)



6 Base Cell(0000,0012)

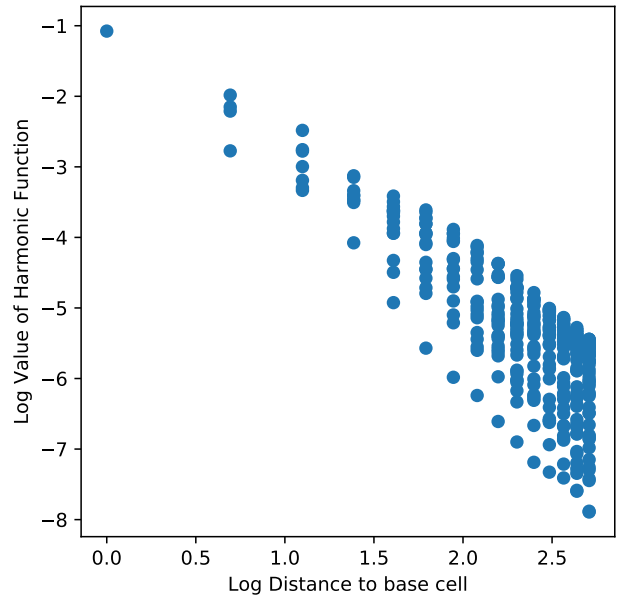
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0012) Scatter



(Log)

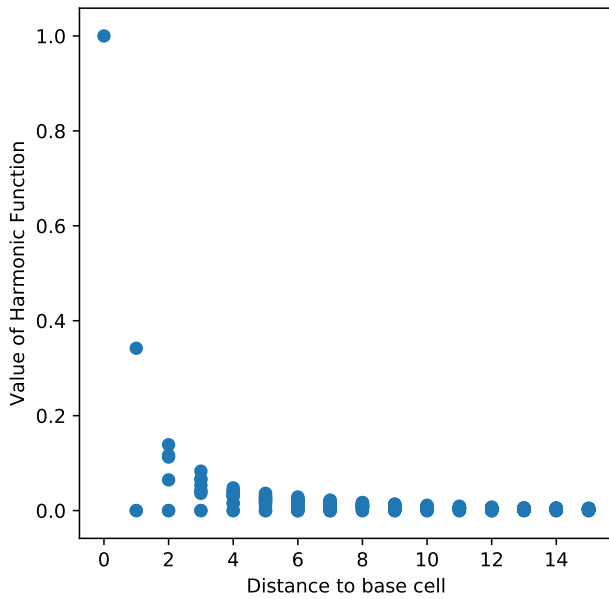
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0012) Scatter



7 Base Cell(0000,0020)

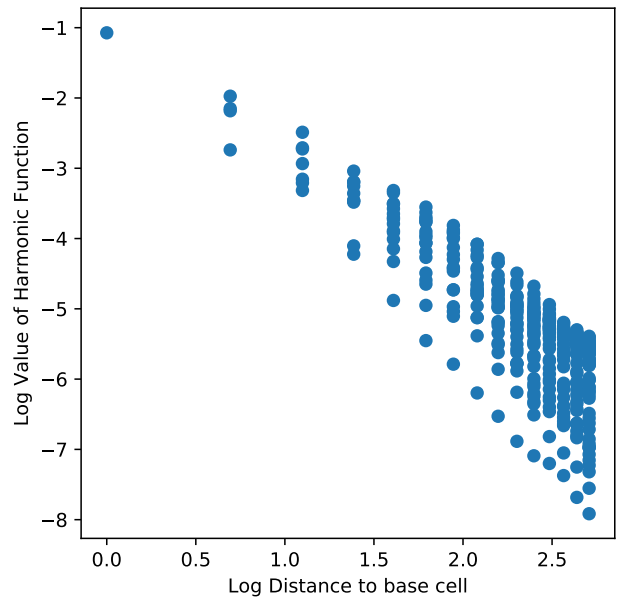
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0020) Scatter



(Log)

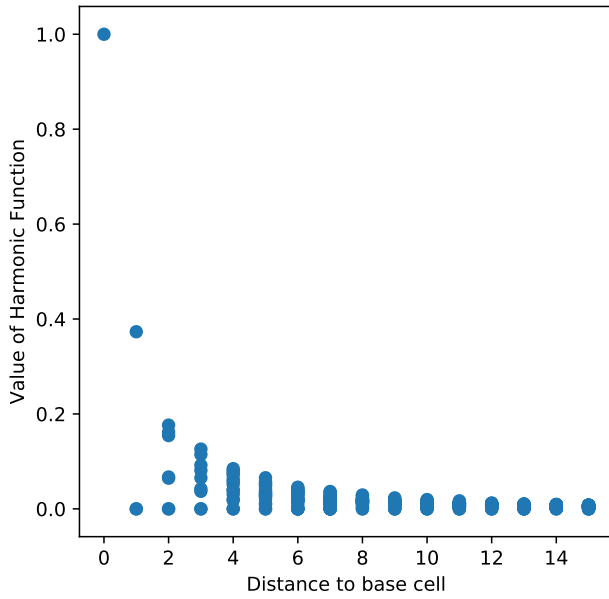
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0020) Scatter



8 Base Cell(0000,0021)

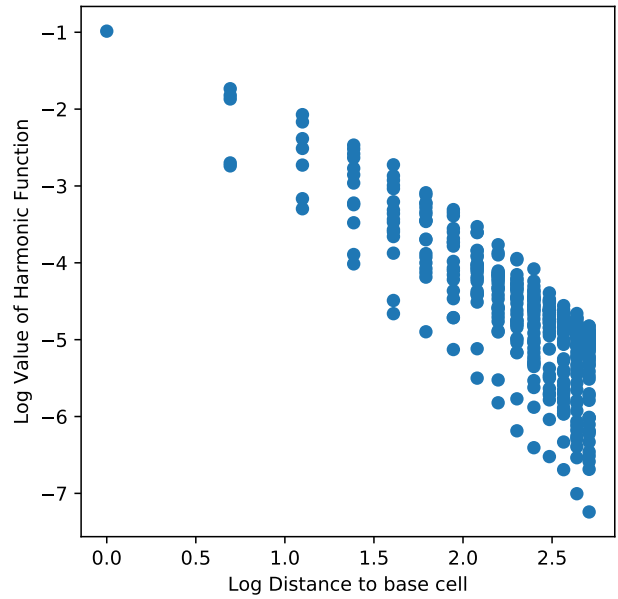
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0021) Scatter



(Log)

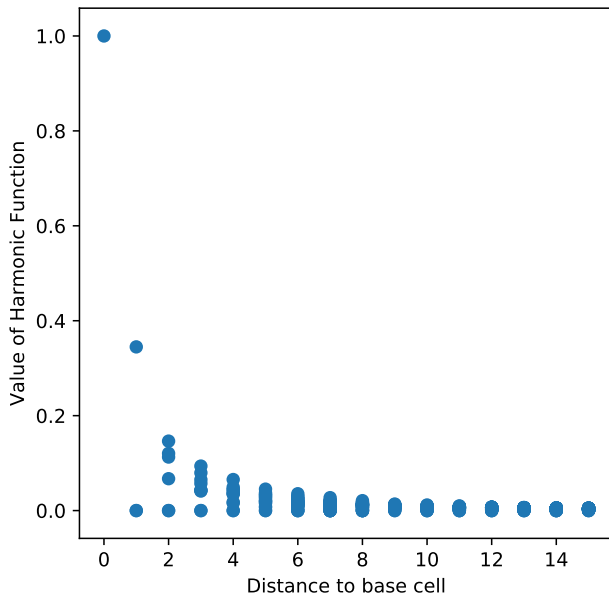
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0021) Scatter



9 Base Cell(0000,0022)

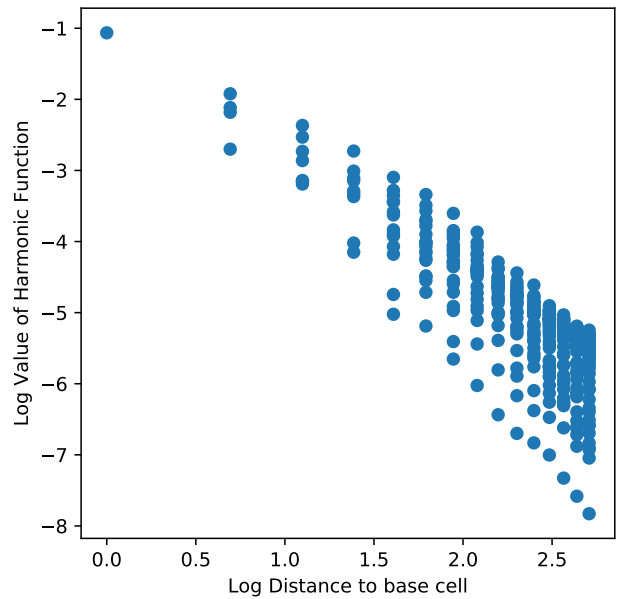
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0022) Scatter



(Log)

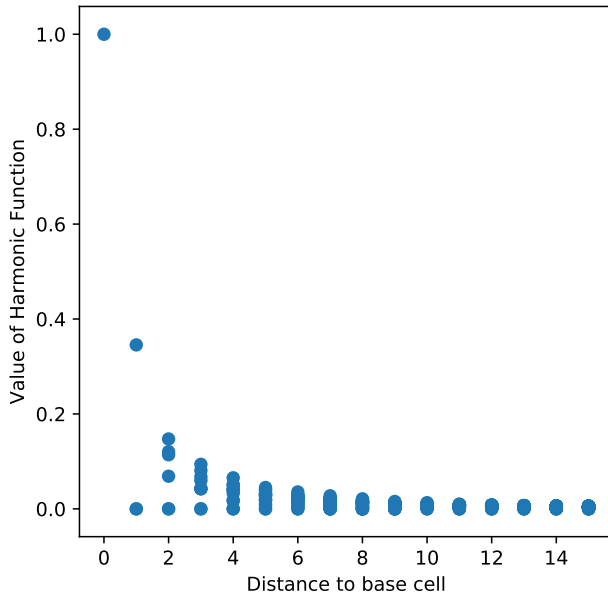
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0022) Scatter



10 Base Cell(0000,0100)

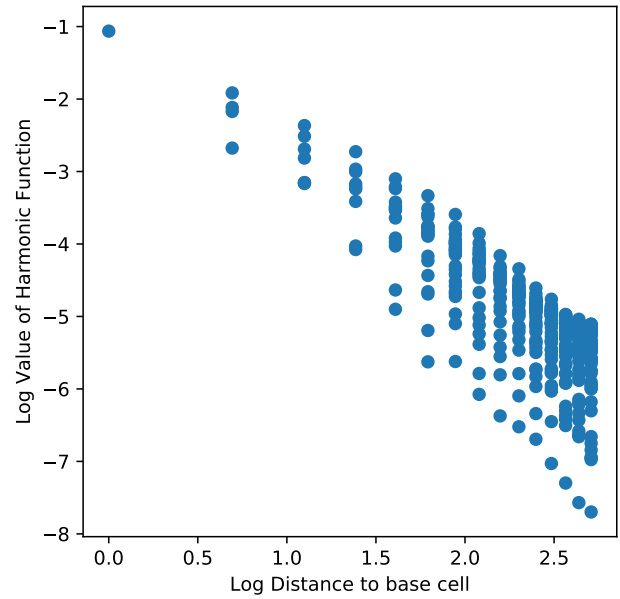
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0100) Scatter



(Log)

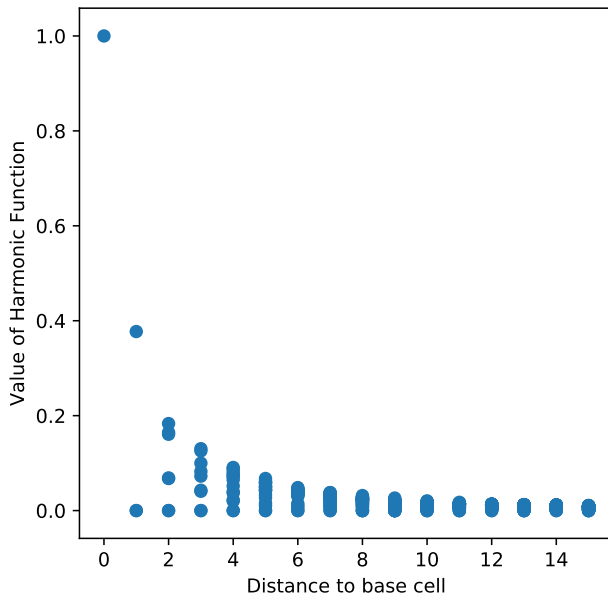
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0100) Scatter



11 Base Cell(0000,0101)

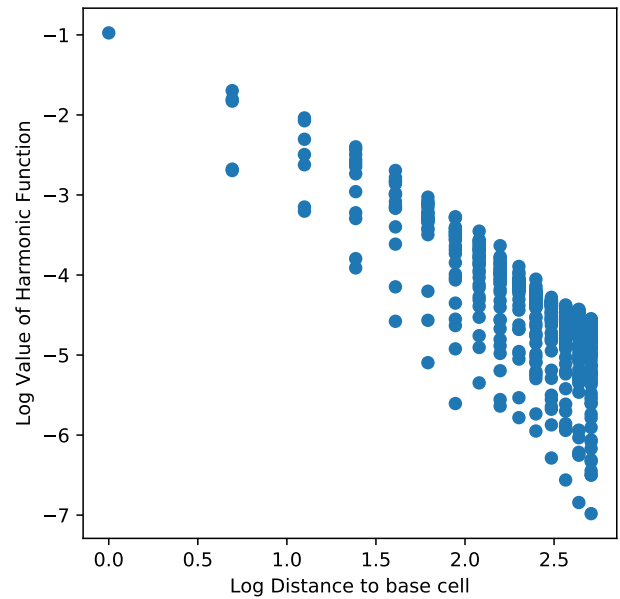
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0101) Scatter



(Log)

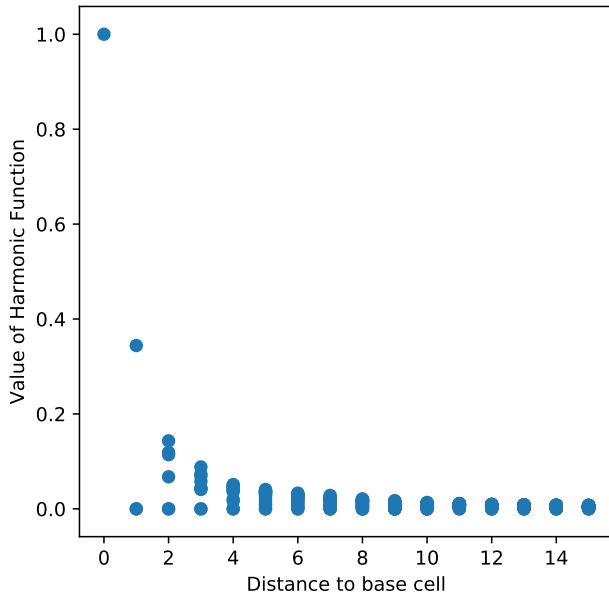
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0101) Scatter



12 Base Cell(0000,0102)

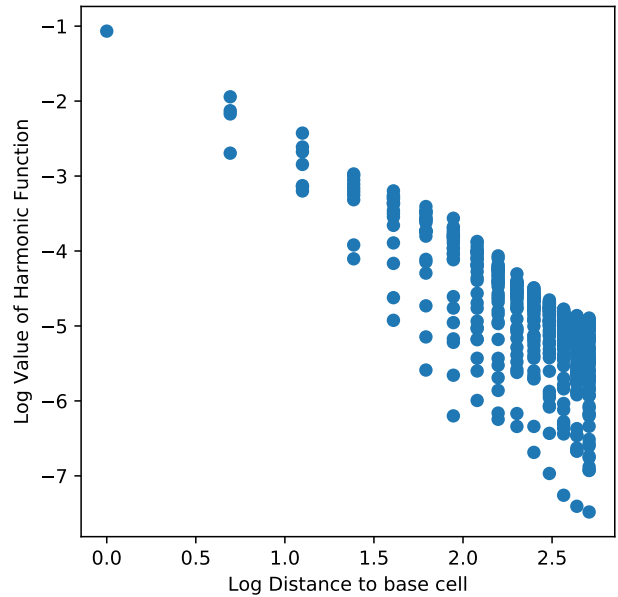
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0102) Scatter



(Log)

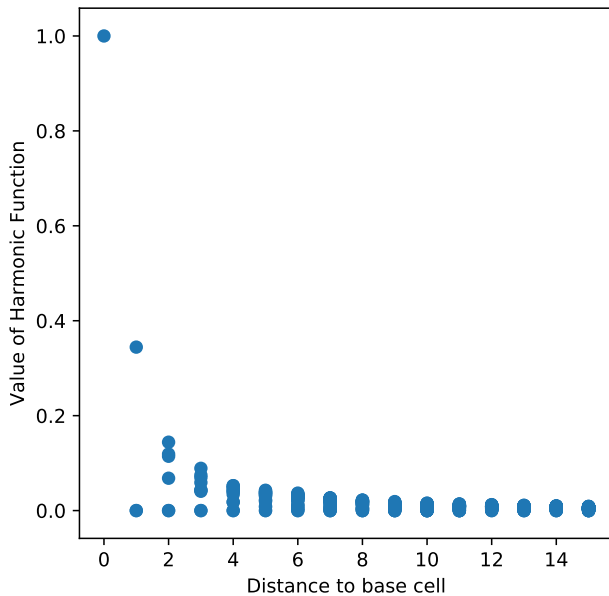
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0102) Scatter



13 Base Cell(0000,0110)

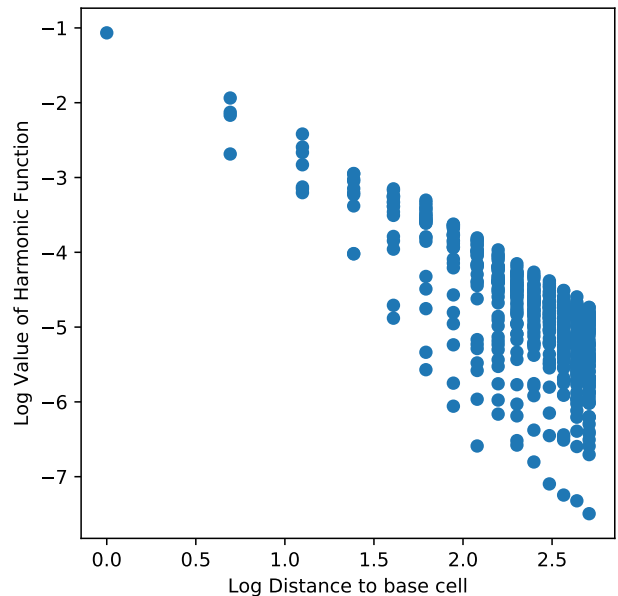
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0110) Scatter



(Log)

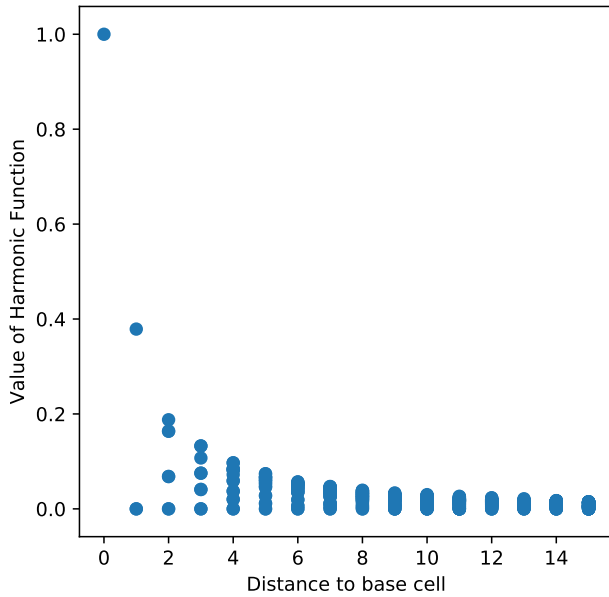
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0110) Scatter



14 Base Cell(0000,0111)

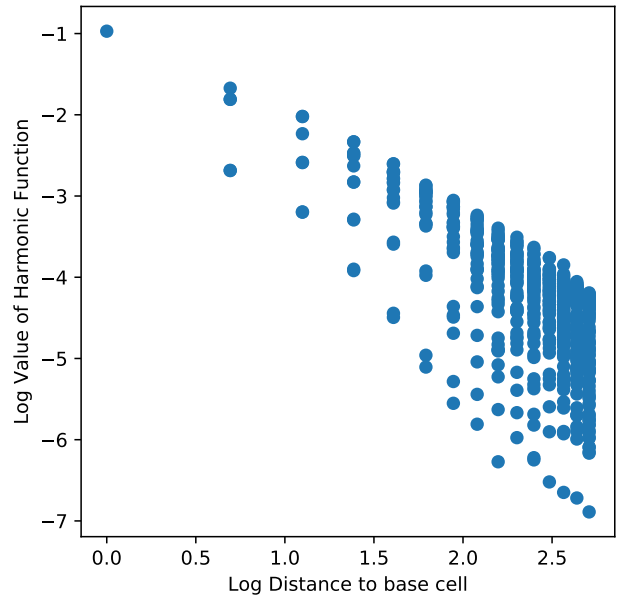
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0111) Scatter



(Log)

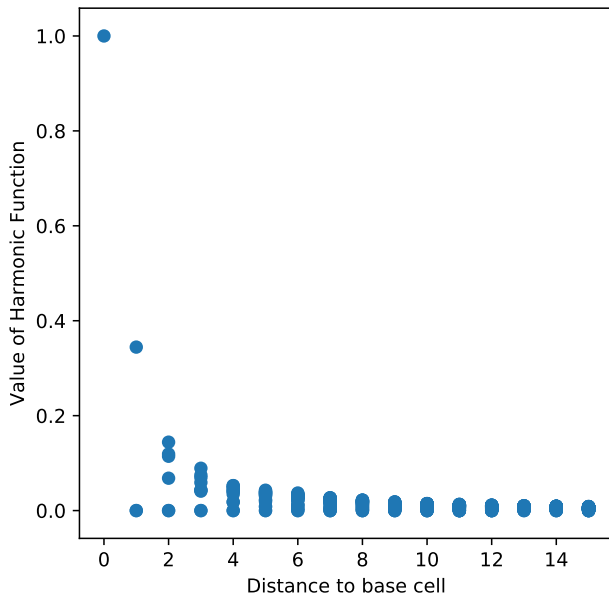
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0111) Scatter



15 Base Cell(0000,0112)

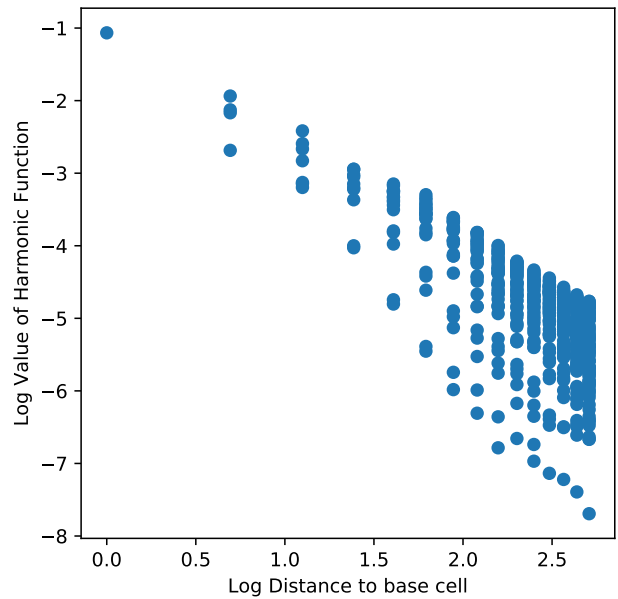
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0112) Scatter



(Log)

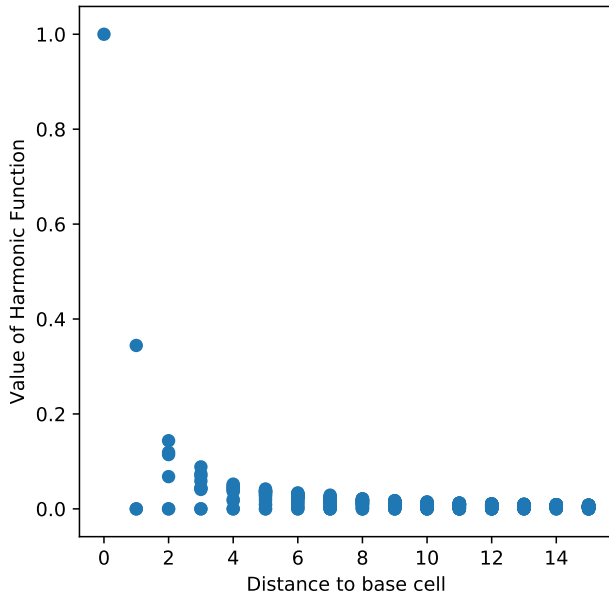
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0112) Scatter



16 Base Cell(0000,0120)

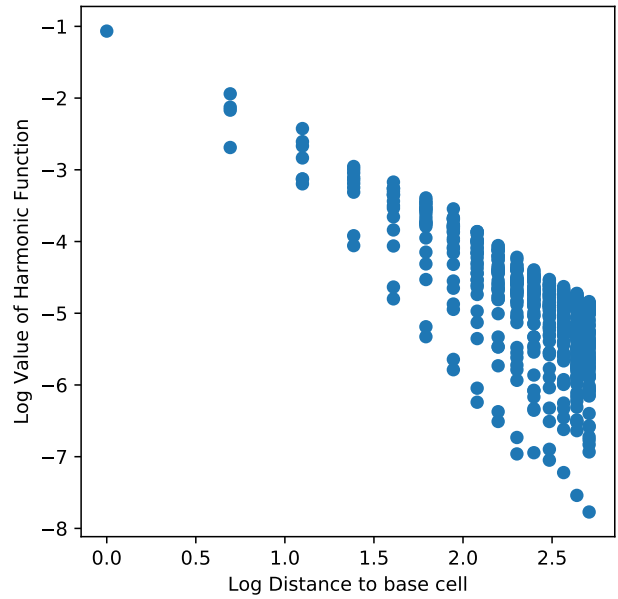
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0120) Scatter



(Log)

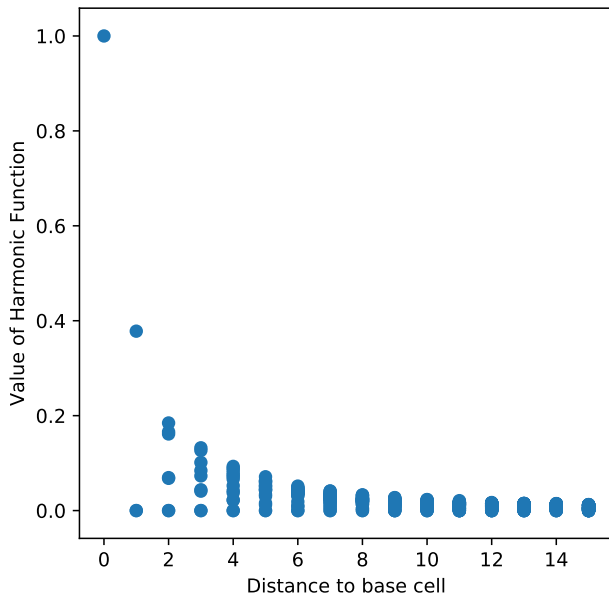
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0120) Scatter



17 Base Cell(0000,0121)

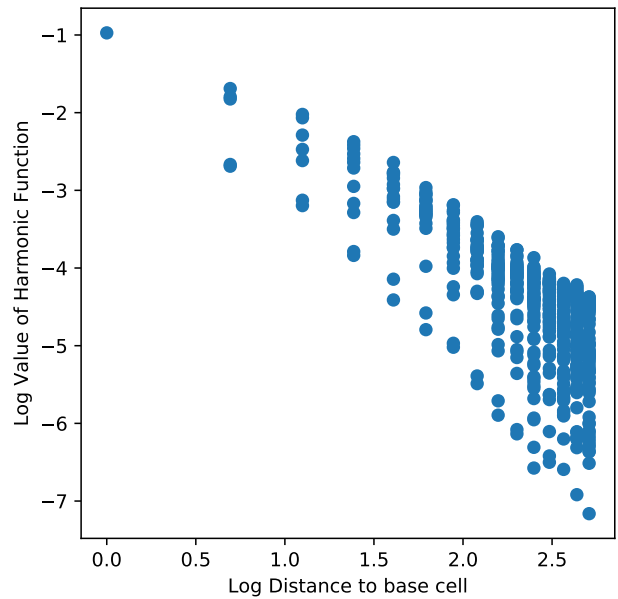
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0121) Scatter



(Log)

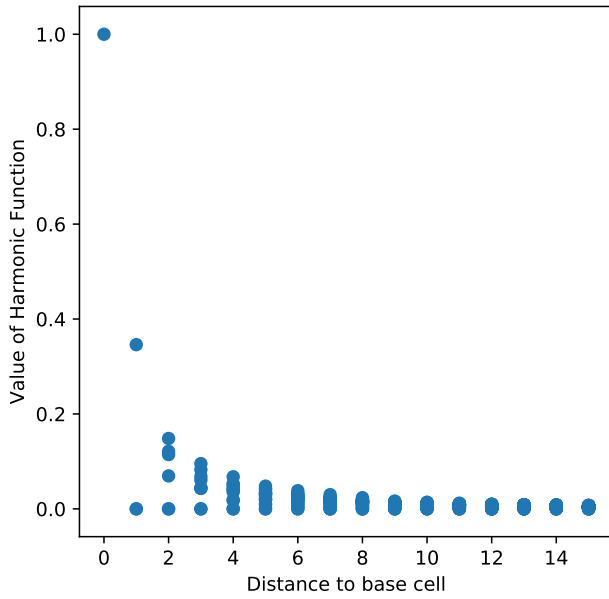
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0121) Scatter



18 Base Cell(0000,0122)

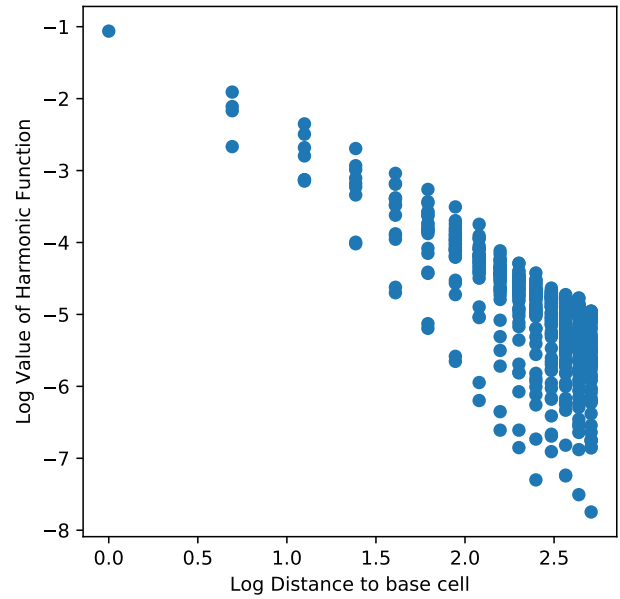
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0122) Scatter



(Log)

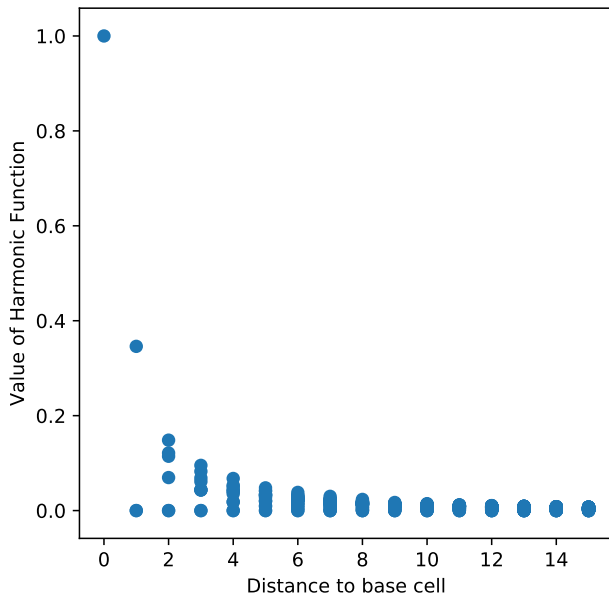
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0122) Scatter



19 Base Cell(0000,0200)

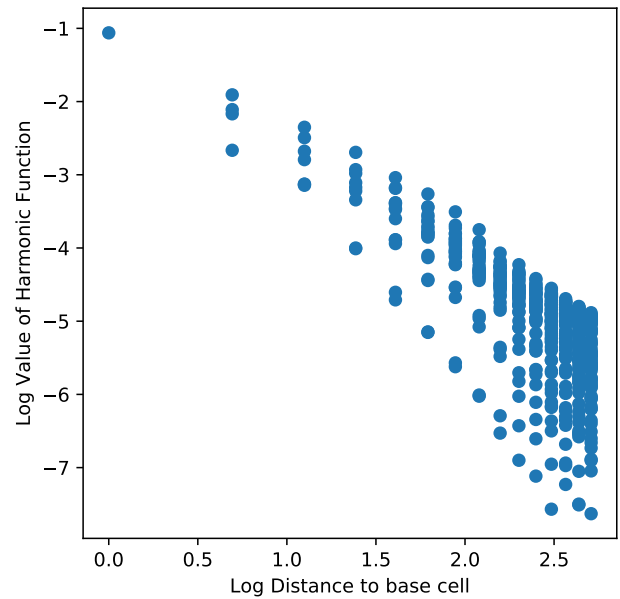
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0200) Scatter



(Log)

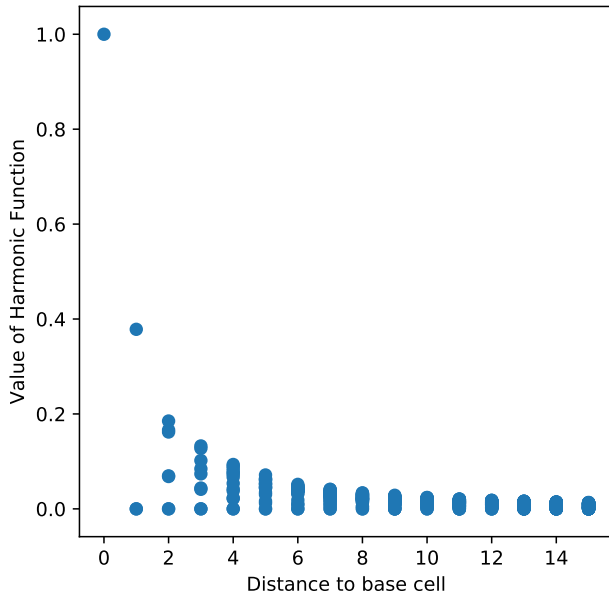
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0200) Scatter



20 Base Cell(0000,0201)

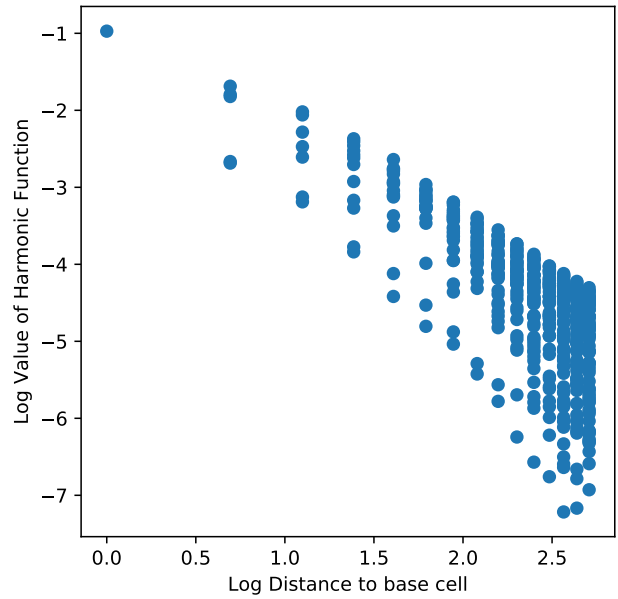
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0201) Scatter



(Log)

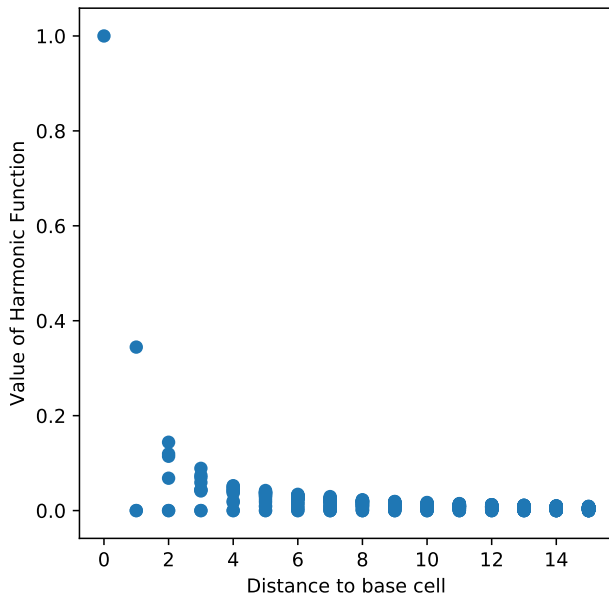
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0201) Scatter



21 Base Cell(0000,0202)

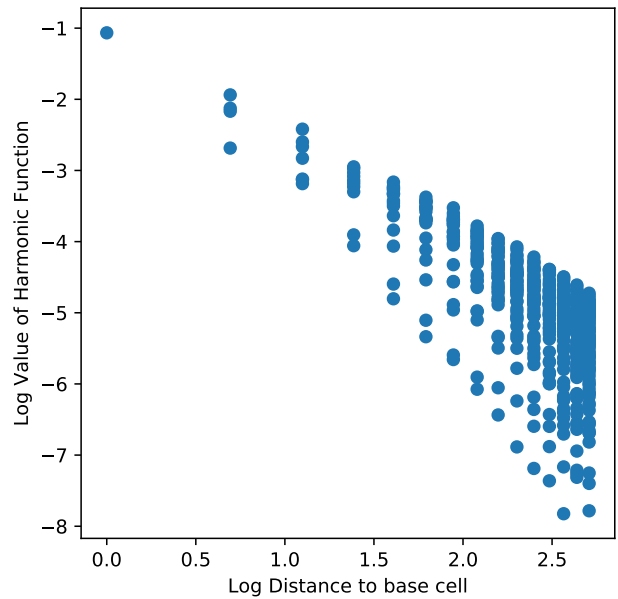
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0202) Scatter



(Log)

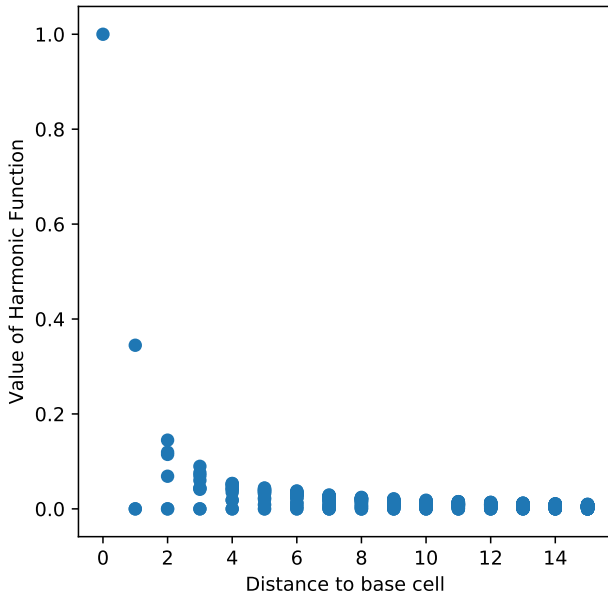
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0202) Scatter



22 Base Cell(0000,0210)

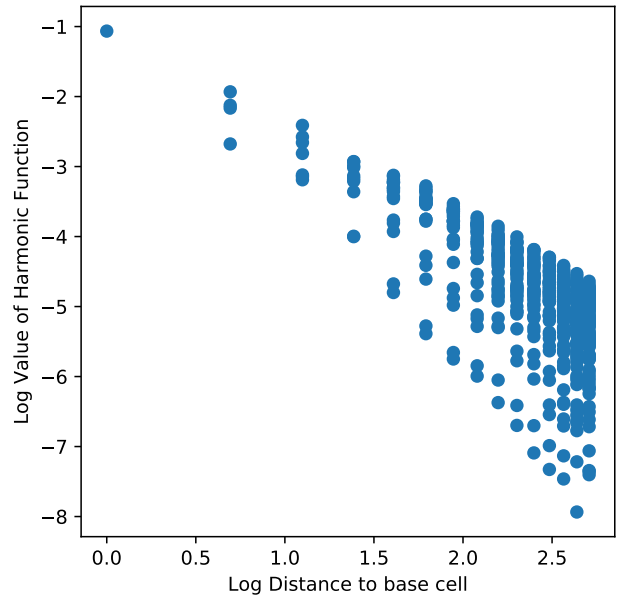
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0210) Scatter



(Log)

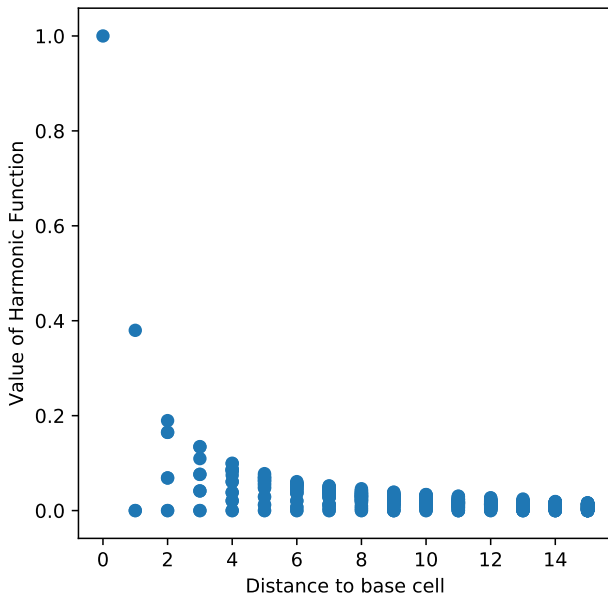
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0210) Scatter



23 Base Cell(0000,0211)

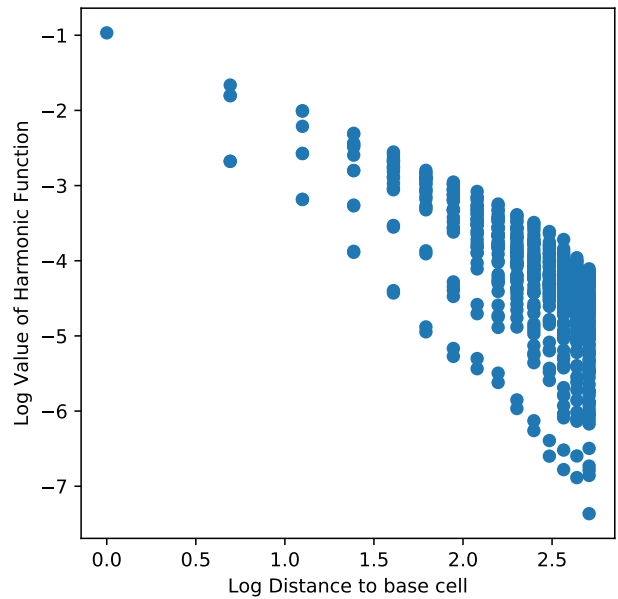
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0211) Scatter



(Log)

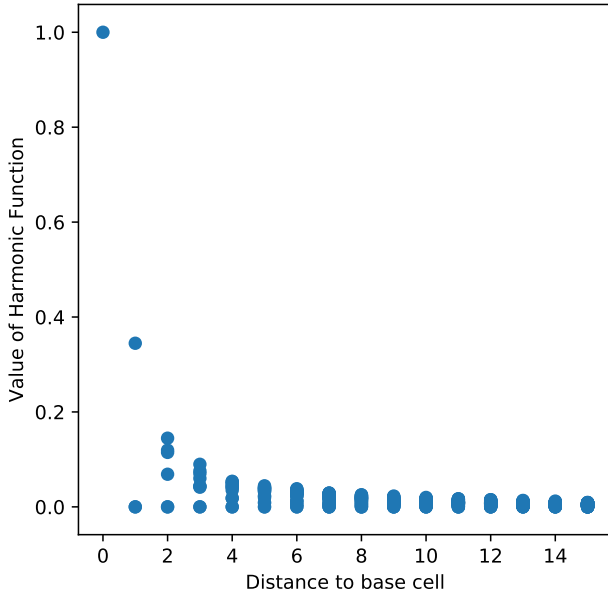
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0211) Scatter



24 Base Cell(0000,0212)

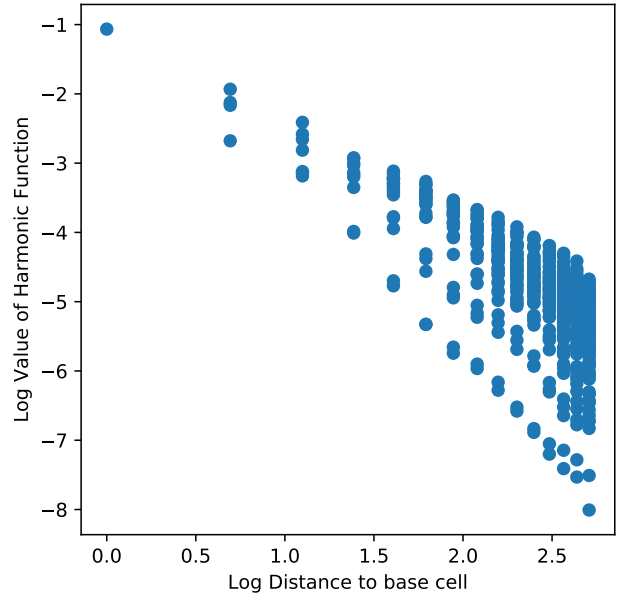
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0212) Scatter



(Log)

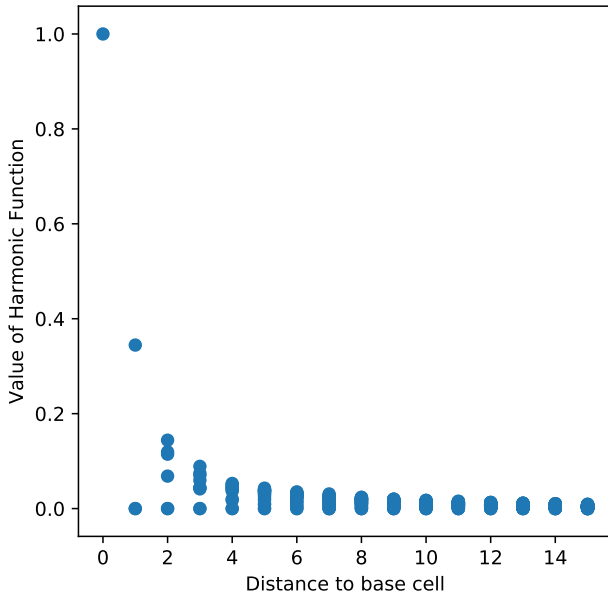
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0212) Scatter



25 Base Cell(0000,0220)

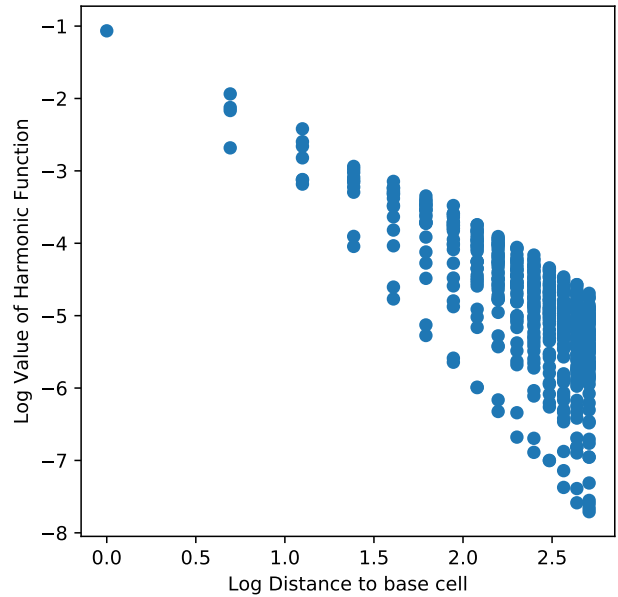
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0220) Scatter



(Log)

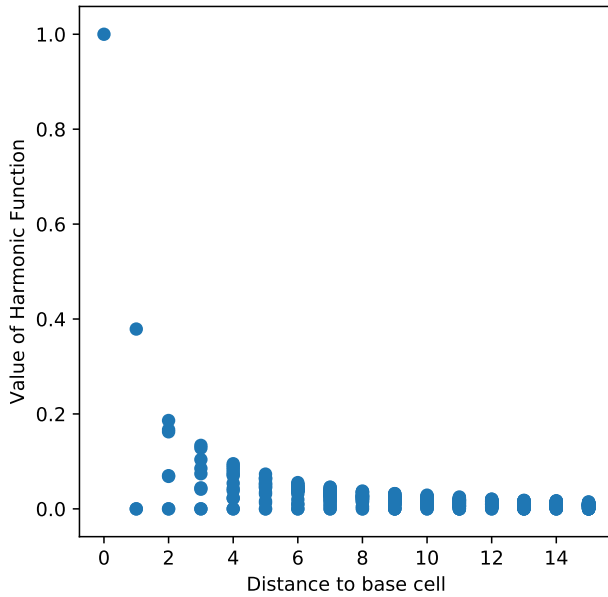
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0220) Scatter



26 Base Cell(0000,0221)

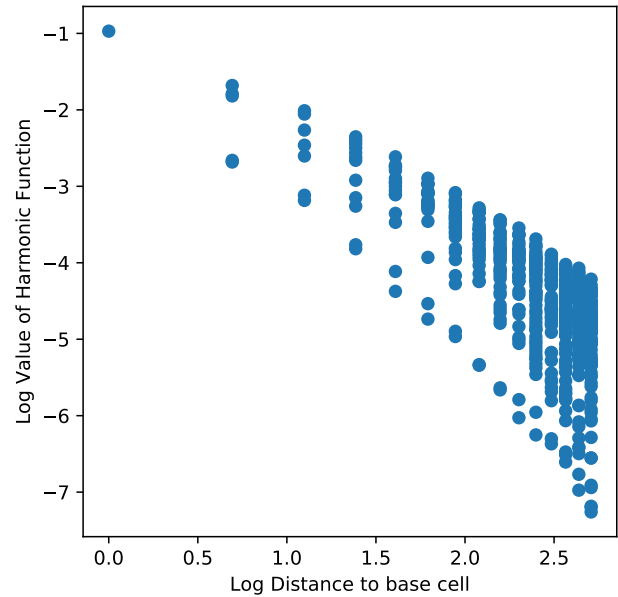
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0221) Scatter



(Log)

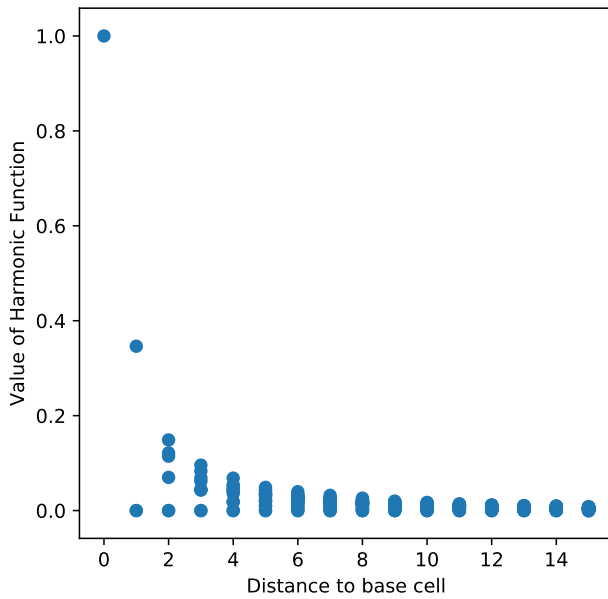
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0221) Scatter



27 Base Cell(0000,0222)

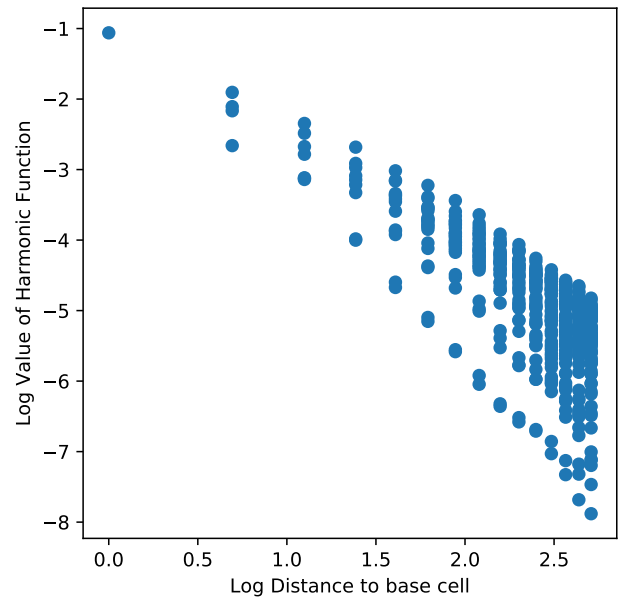
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0222) Scatter



(Log)

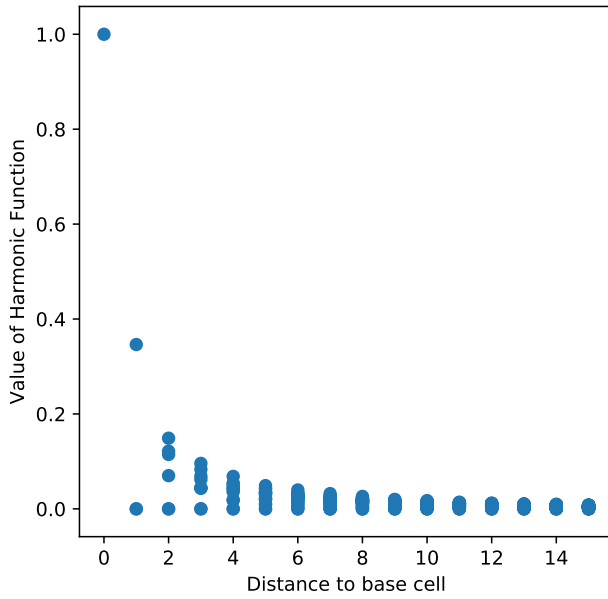
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,0222) Scatter



28 Base Cell(0000,1000)

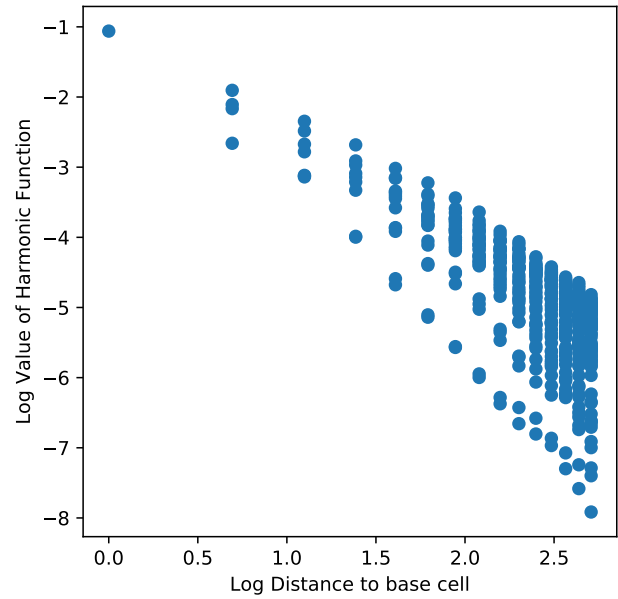
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1000) Scatter



(Log)

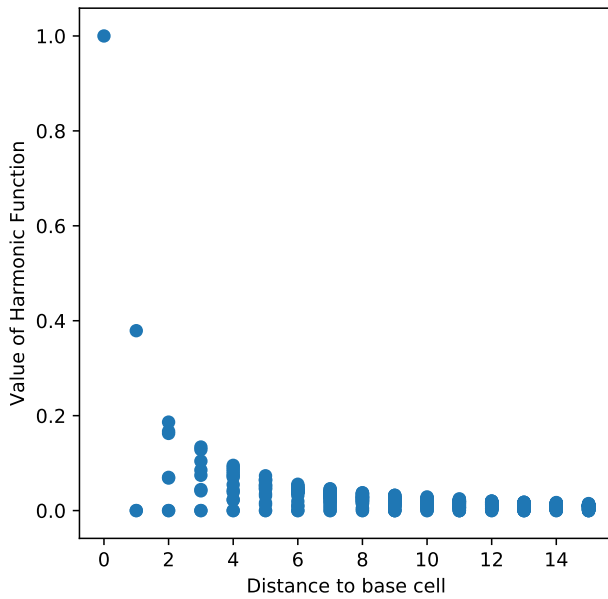
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1000) Scatter



29 Base Cell(0000,1001)

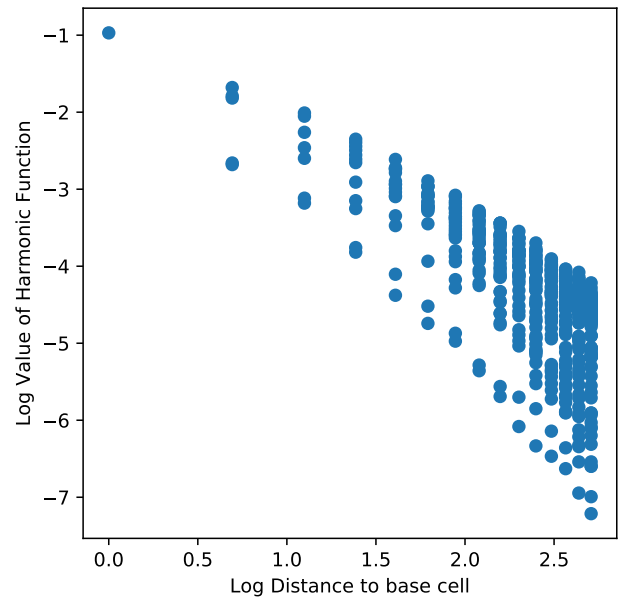
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1001) Scatter



(Log)

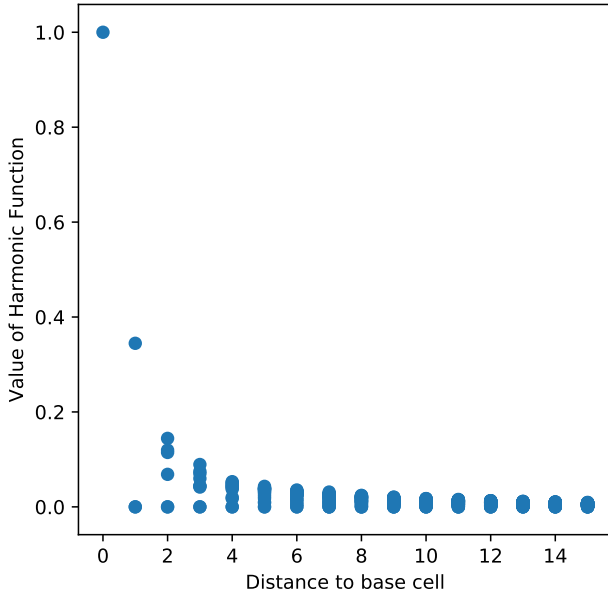
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1001) Scatter



30 Base Cell(0000,1002)

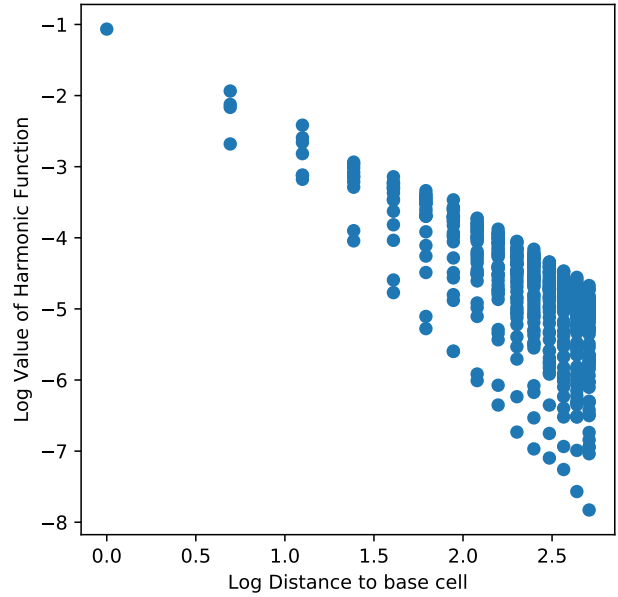
(Regular)

Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1002) Scatter



(Log)

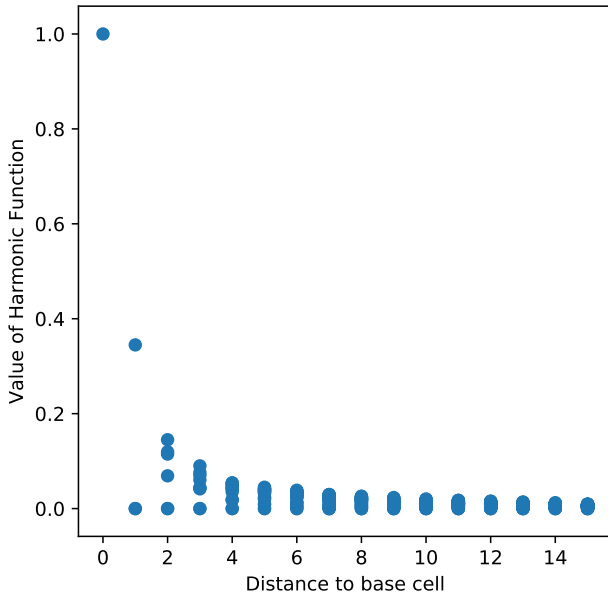
Log-log Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1002) Scatter



31 Base Cell(0000,1010)

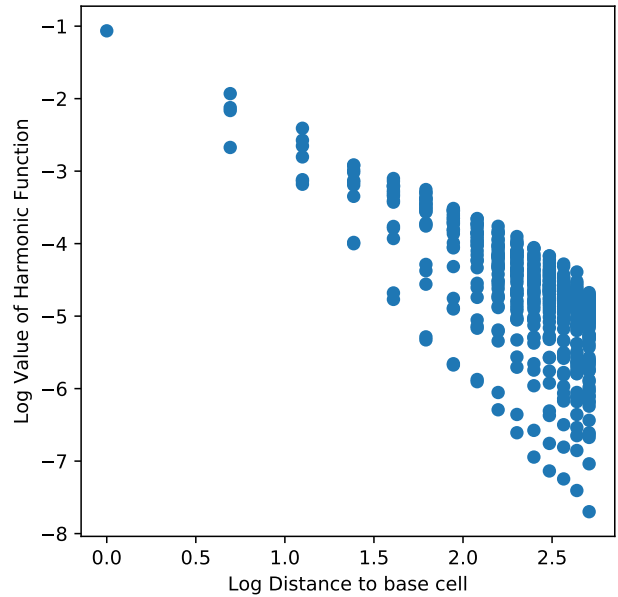
(Regular)

Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1010) Scatter



(Log)

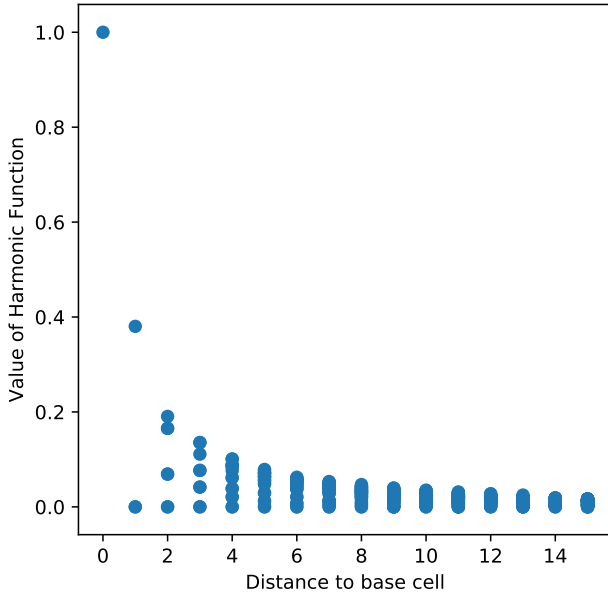
Log-log Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1010) Scatter



32 Base Cell(0000,1011)

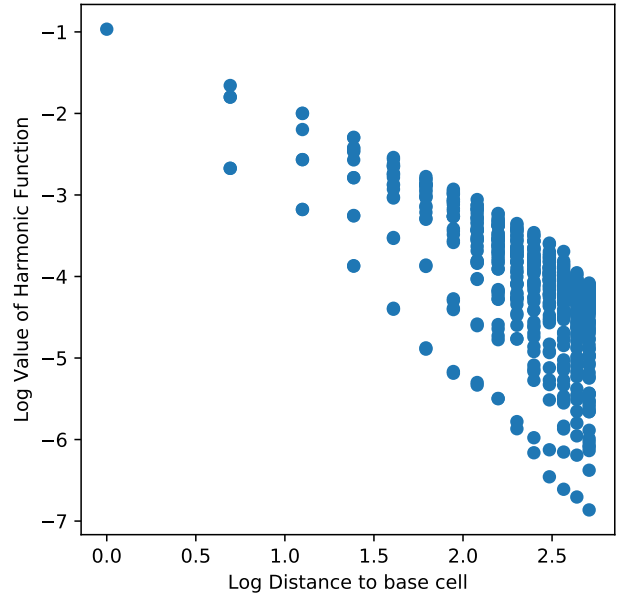
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1011) Scatter



(Log)

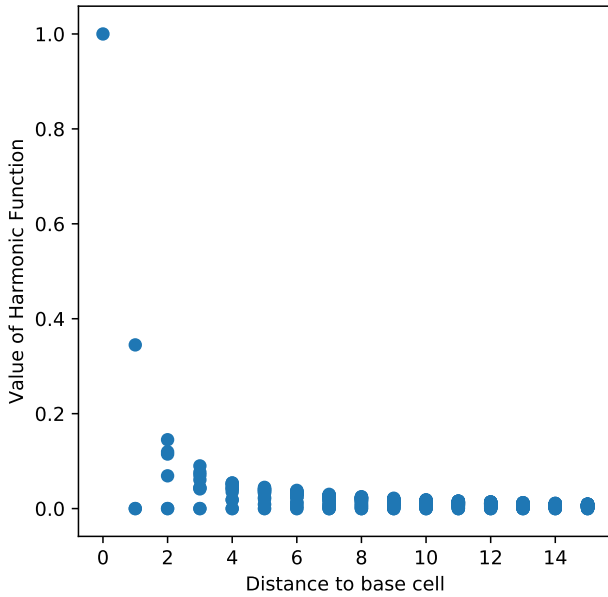
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1011) Scatter



33 Base Cell(0000,1012)

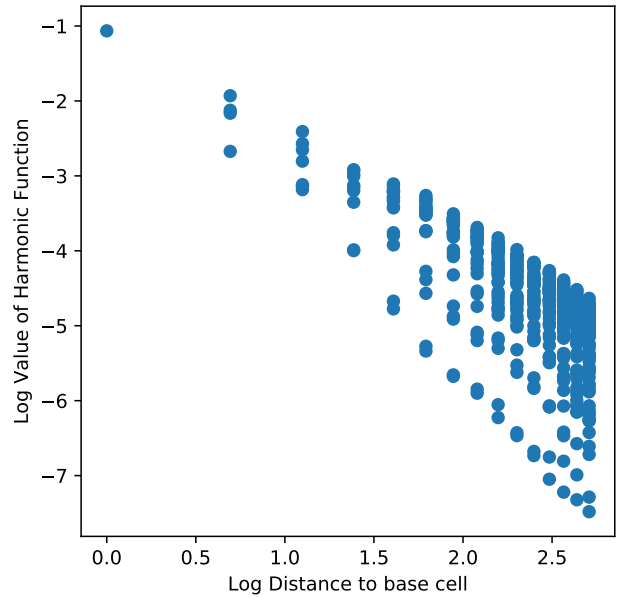
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1012) Scatter



(Log)

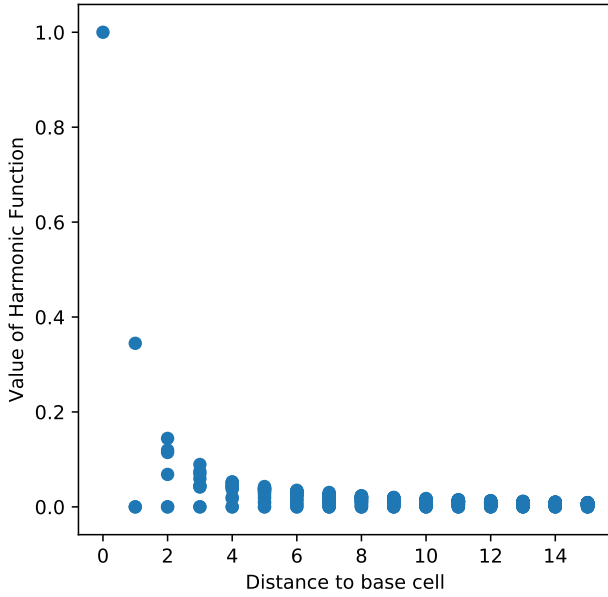
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1012) Scatter



34 Base Cell(0000,1020)

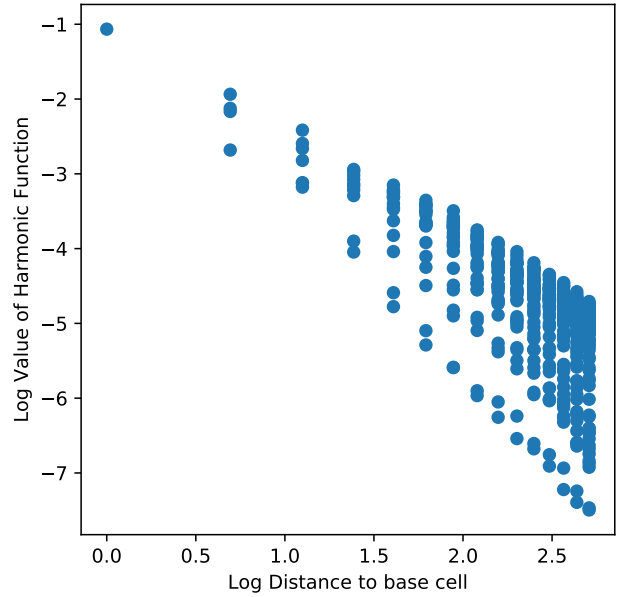
(Regular)

Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1020) Scatter



(Log)

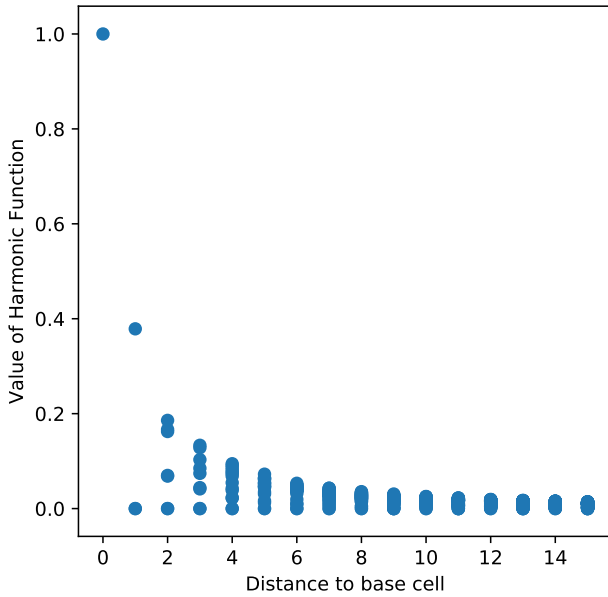
Log-log Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1020) Scatter



35 Base Cell(0000,1021)

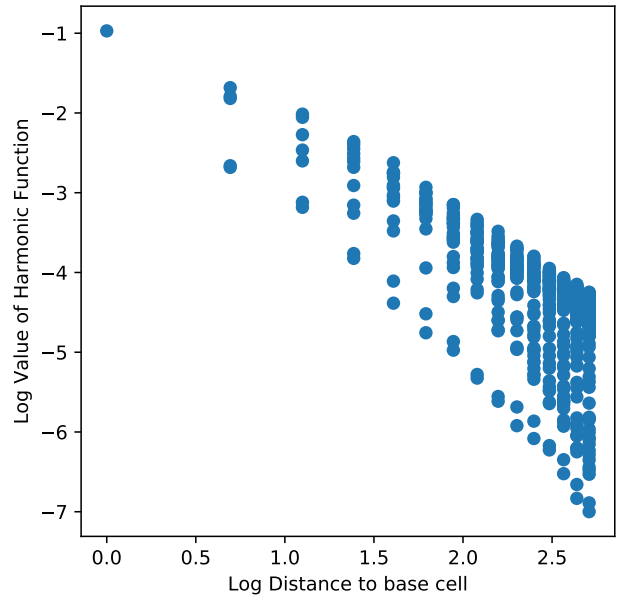
(Regular)

Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1021) Scatter



(Log)

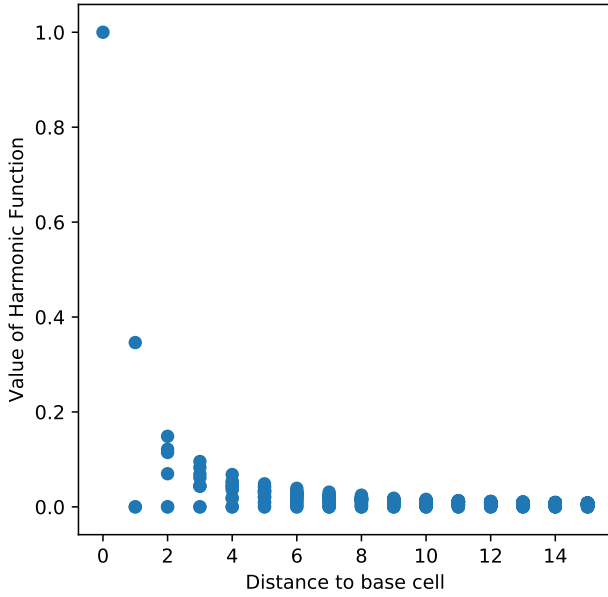
Log-log Projective Plane Harmonic Functions for M = 4,
Base Cell(0000,1021) Scatter



36 Base Cell(0000,1022)

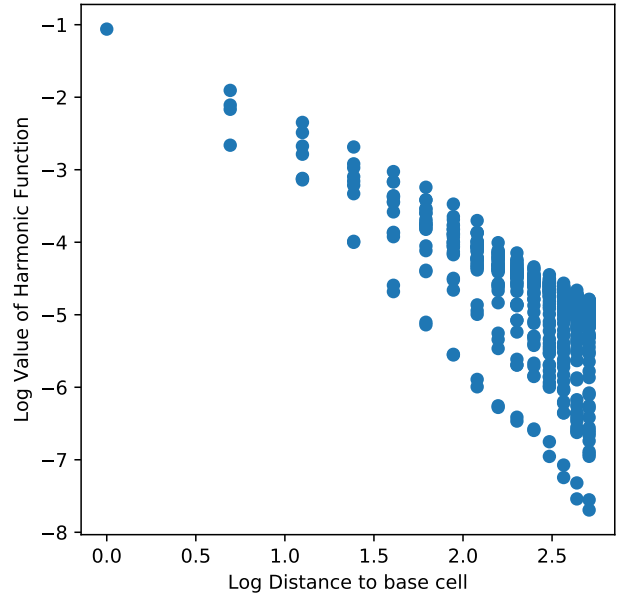
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1022) Scatter



(Log)

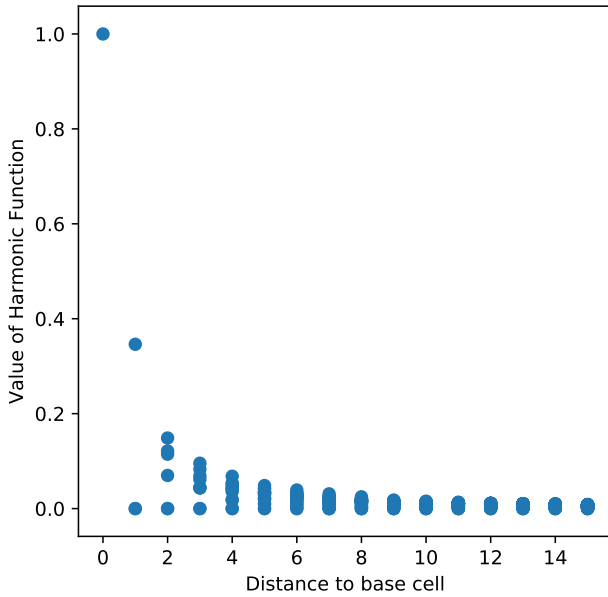
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1022) Scatter



37 Base Cell(0000,1100)

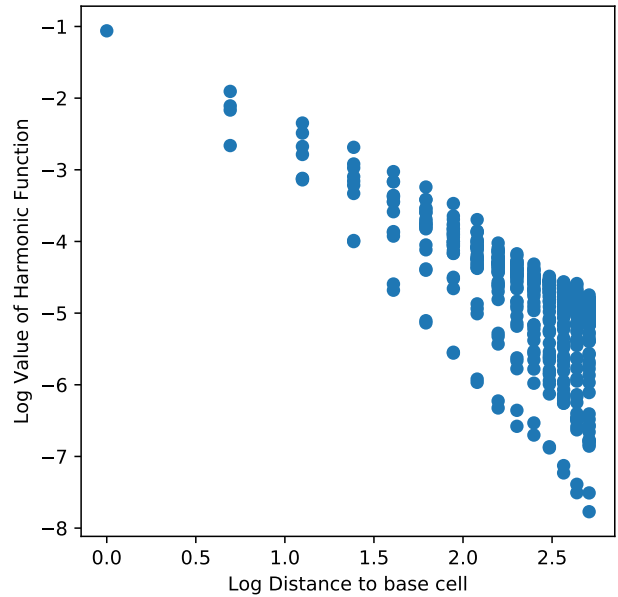
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1100) Scatter



(Log)

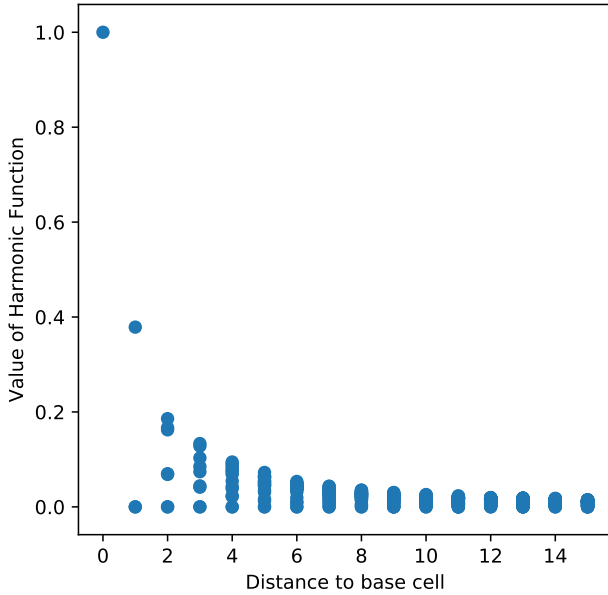
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1100) Scatter



38 Base Cell(0000,1101)

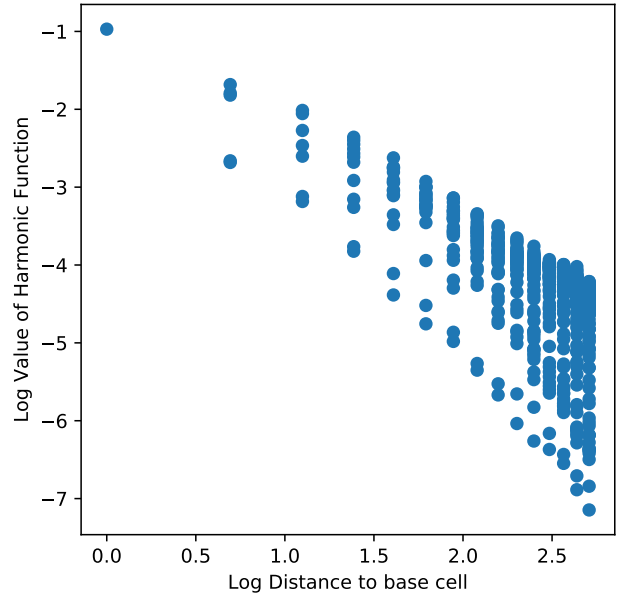
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1101) Scatter



(Log)

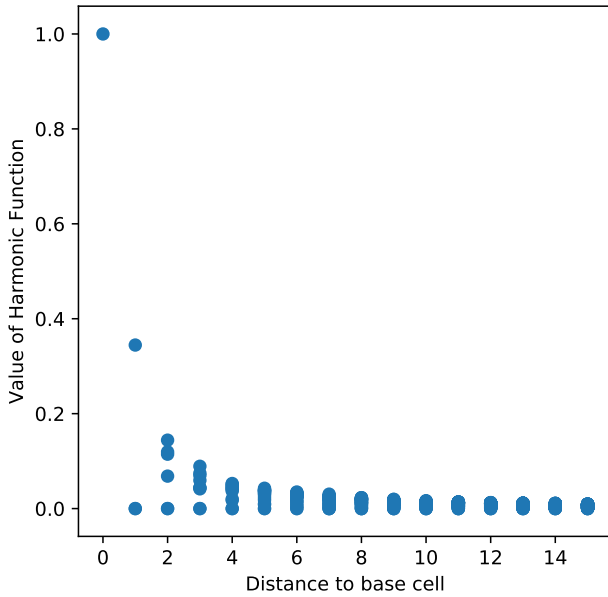
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1101) Scatter



39 Base Cell(0000,1102)

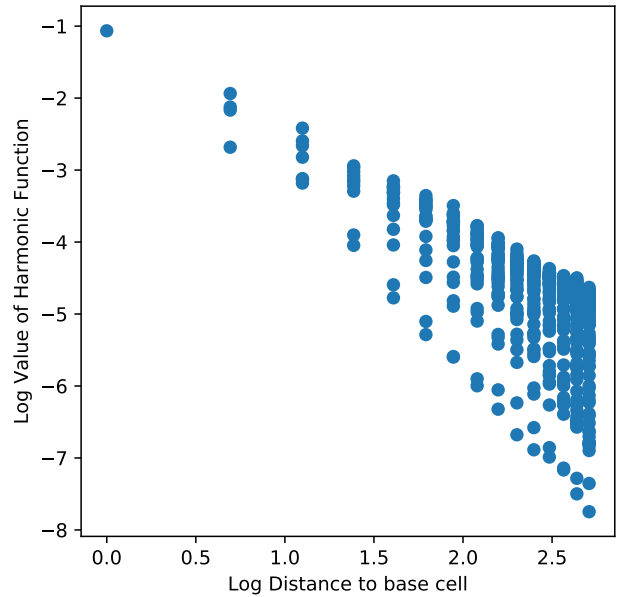
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1102) Scatter



(Log)

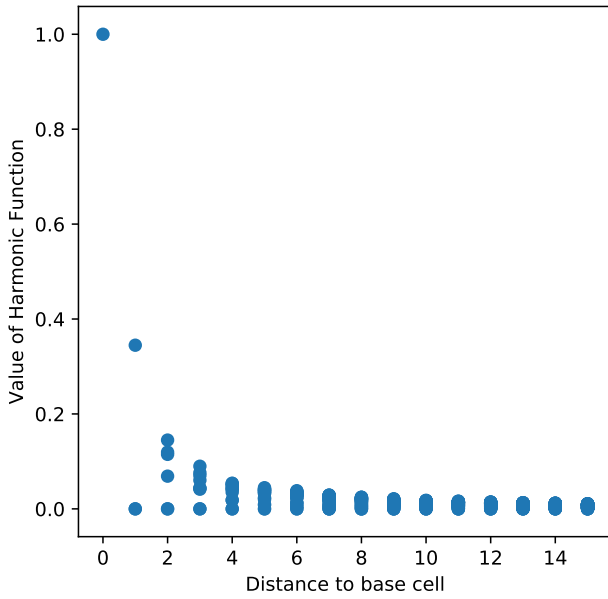
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1102) Scatter



40 Base Cell(0000,1110)

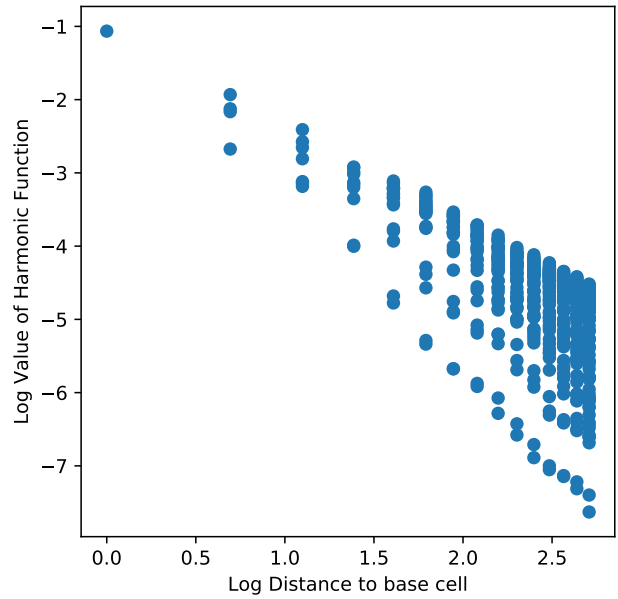
(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1110) Scatter



(Log)

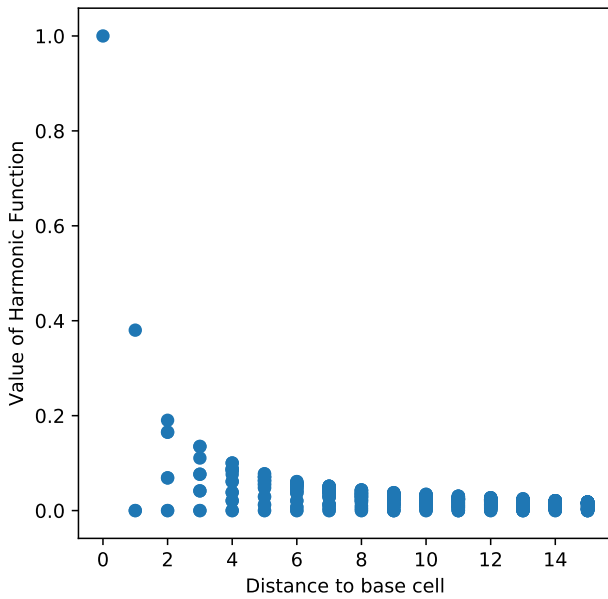
Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1110) Scatter



41 Base Cell(0000,1111)

(Regular)

Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1111) Scatter



(Log)

Log-log Projective Plane Harmonic Functions for $M = 4$,
Base Cell(0000,1111) Scatter

