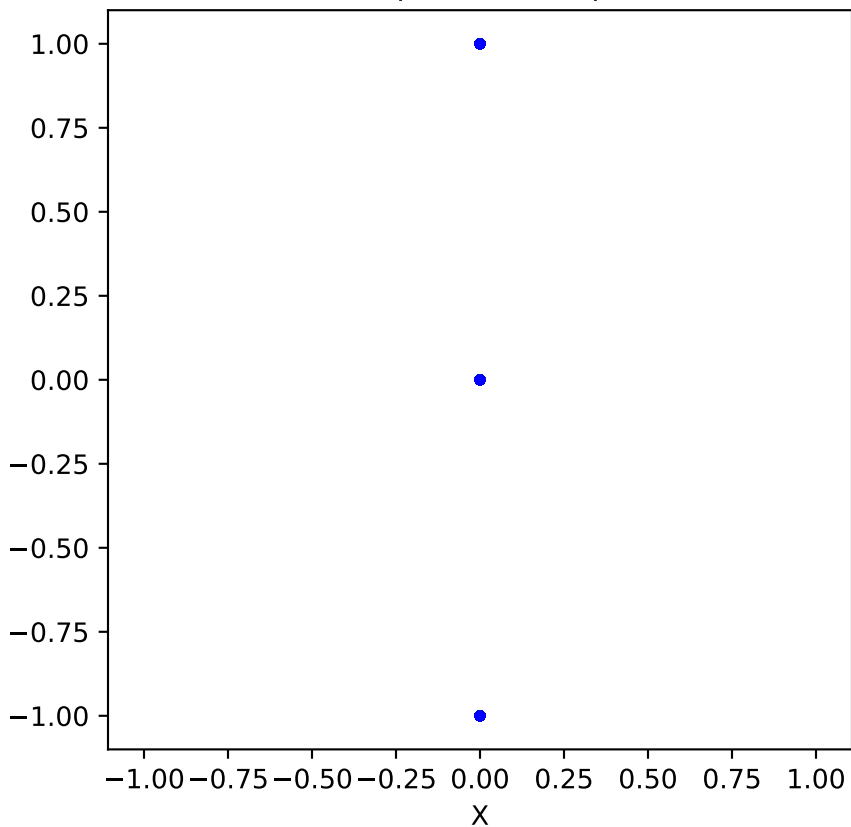
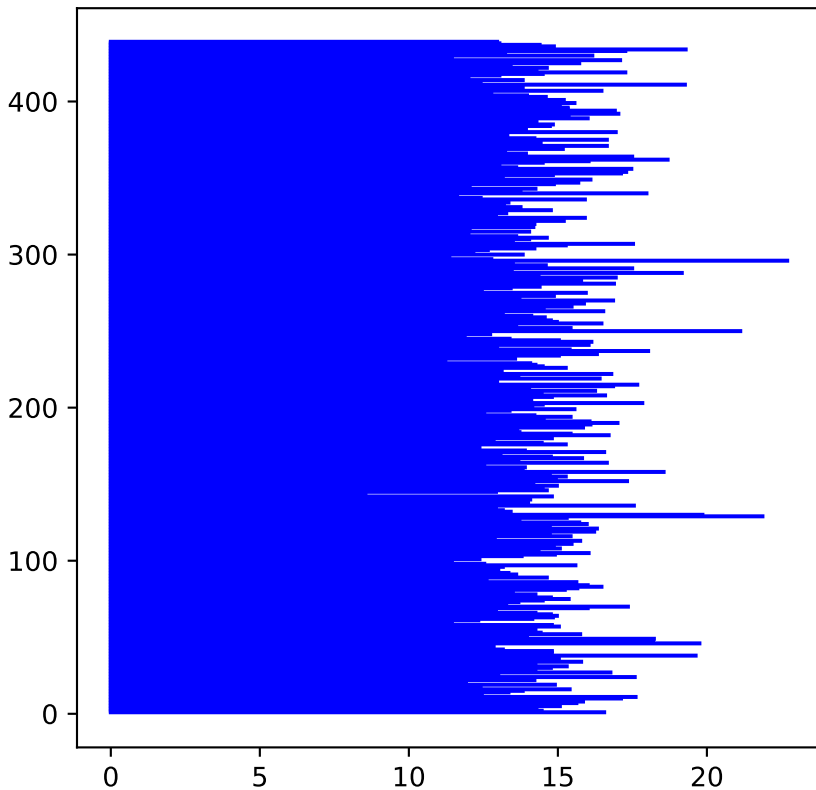


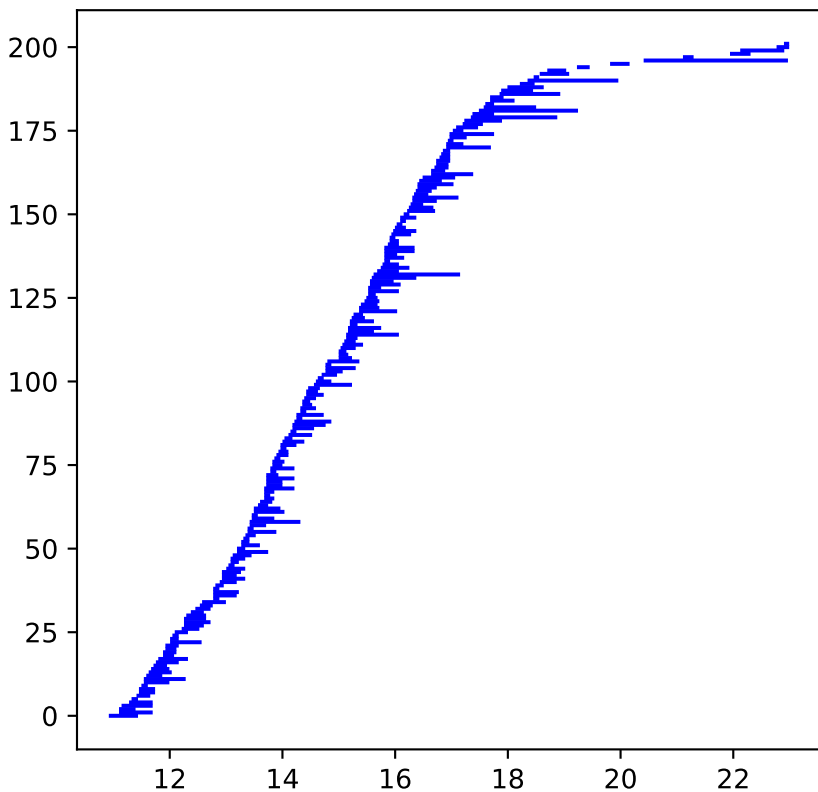
Scatter plot of data points



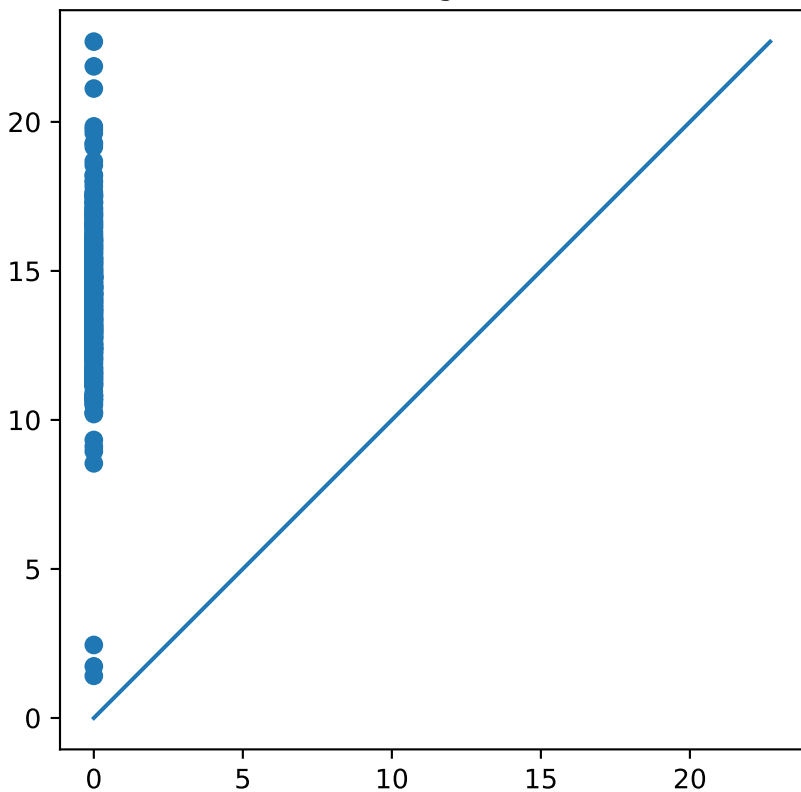
Persistence Barcode for dim 0



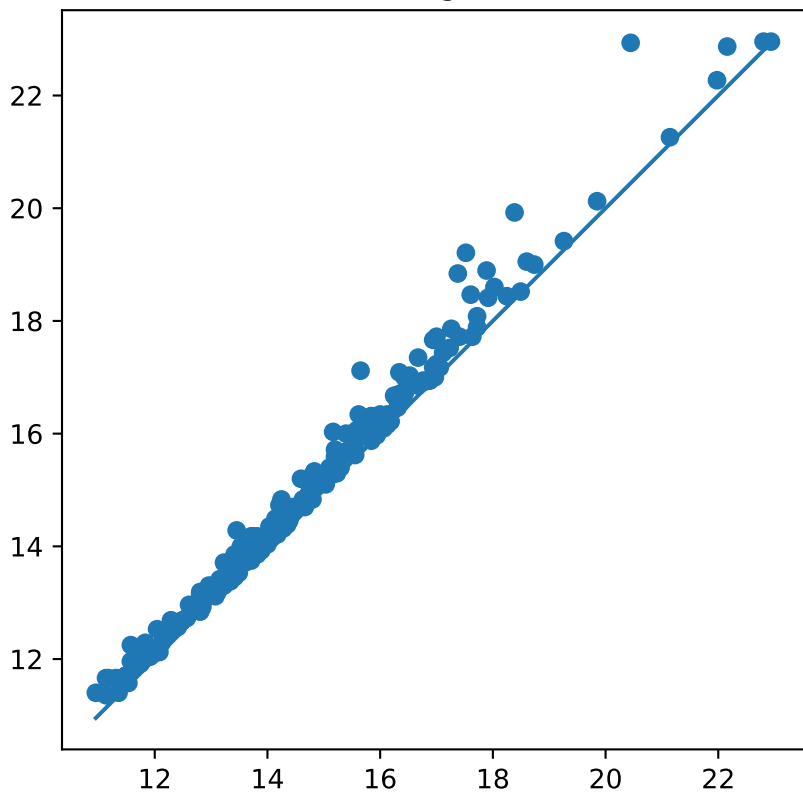
Persistence Barcode for dim 1



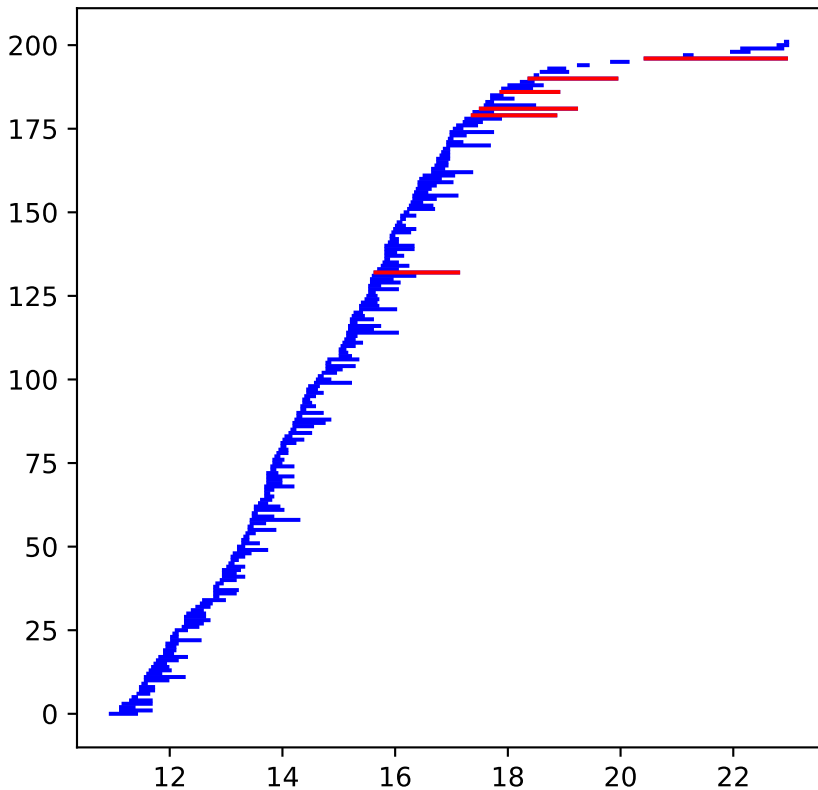
Persistence Diagram for dim 0



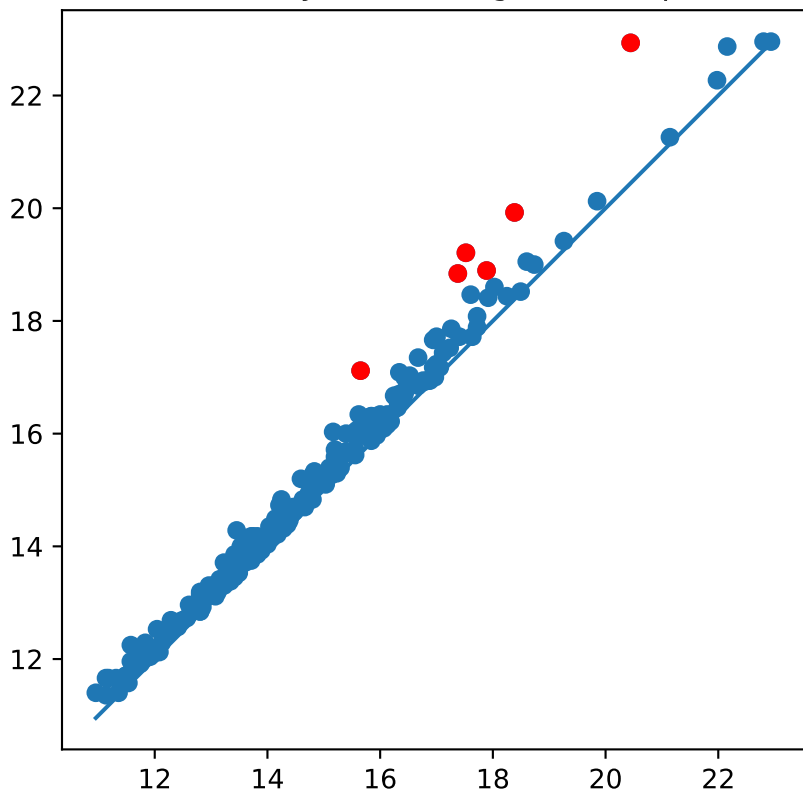
Persistence Diagram for dim 1

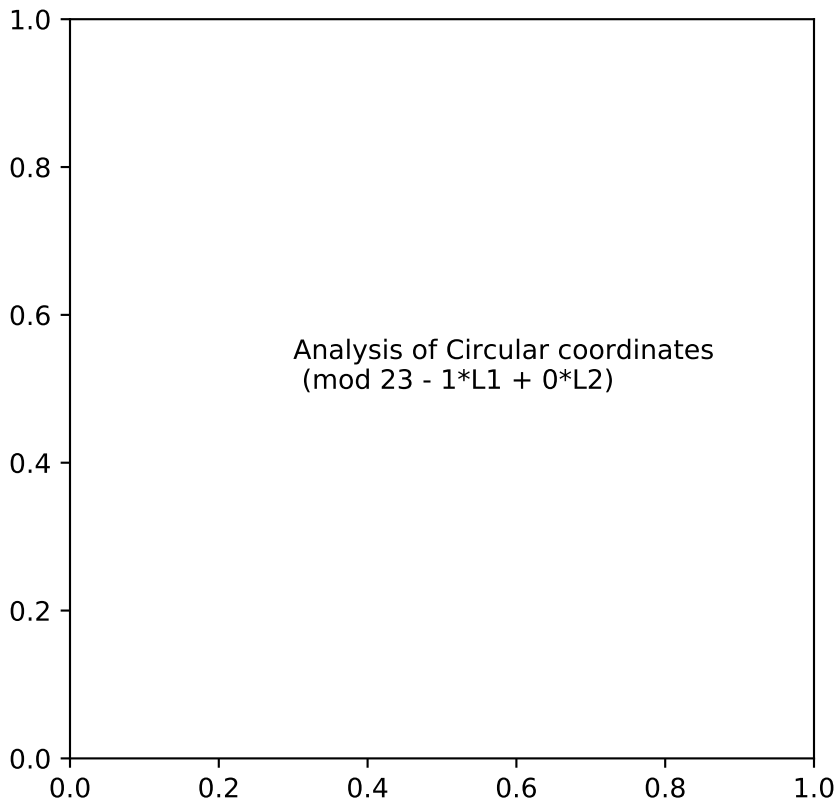


Selected cocycles on barcodes (red bars)

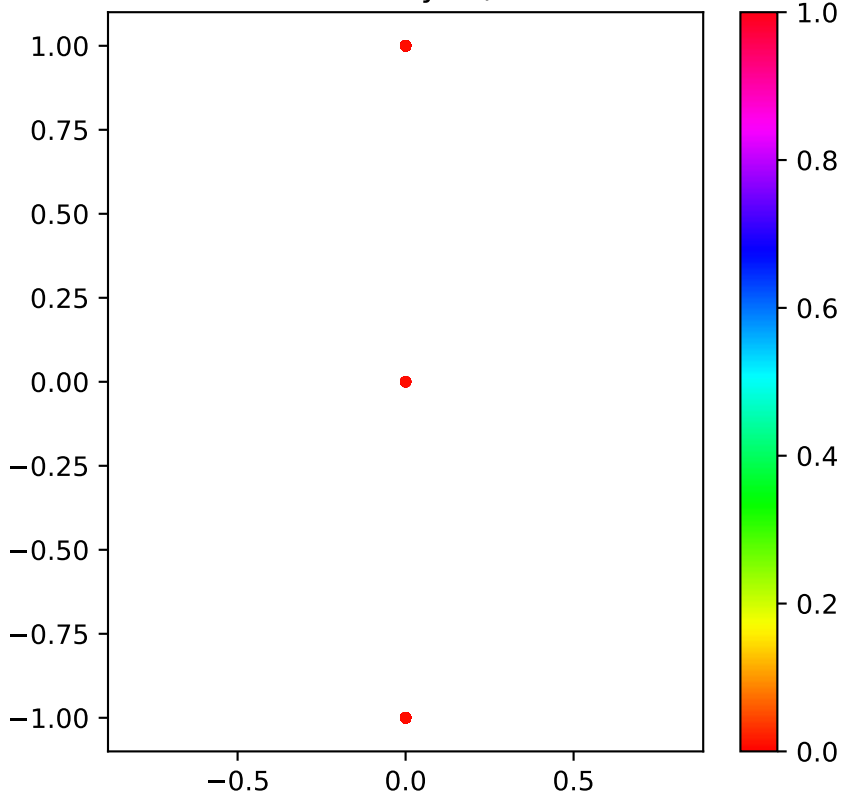


Selected cocycles on diagram (red points)

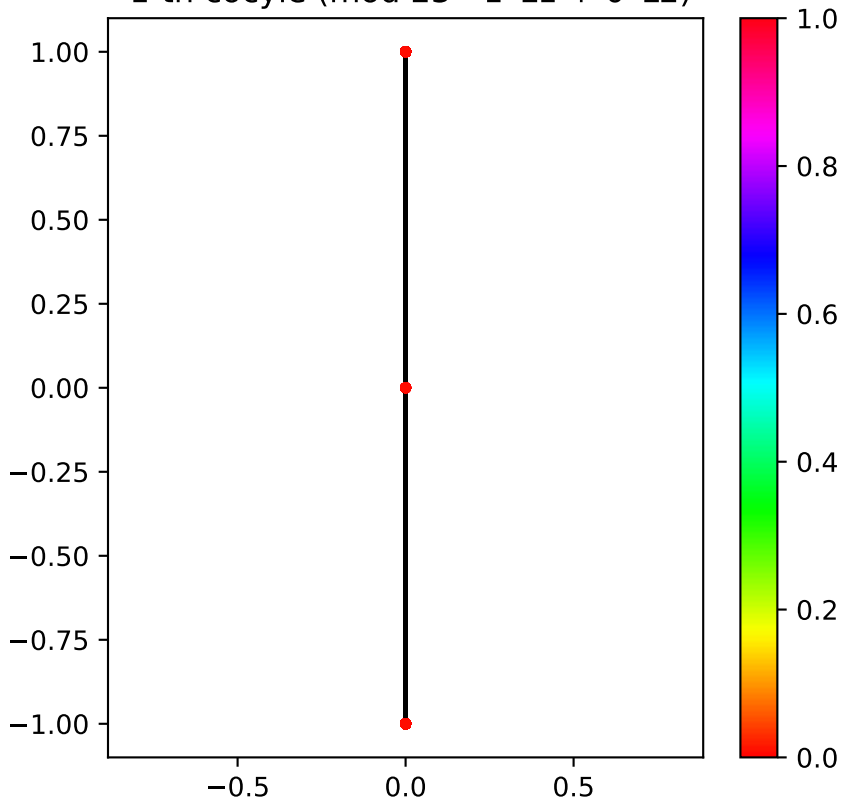




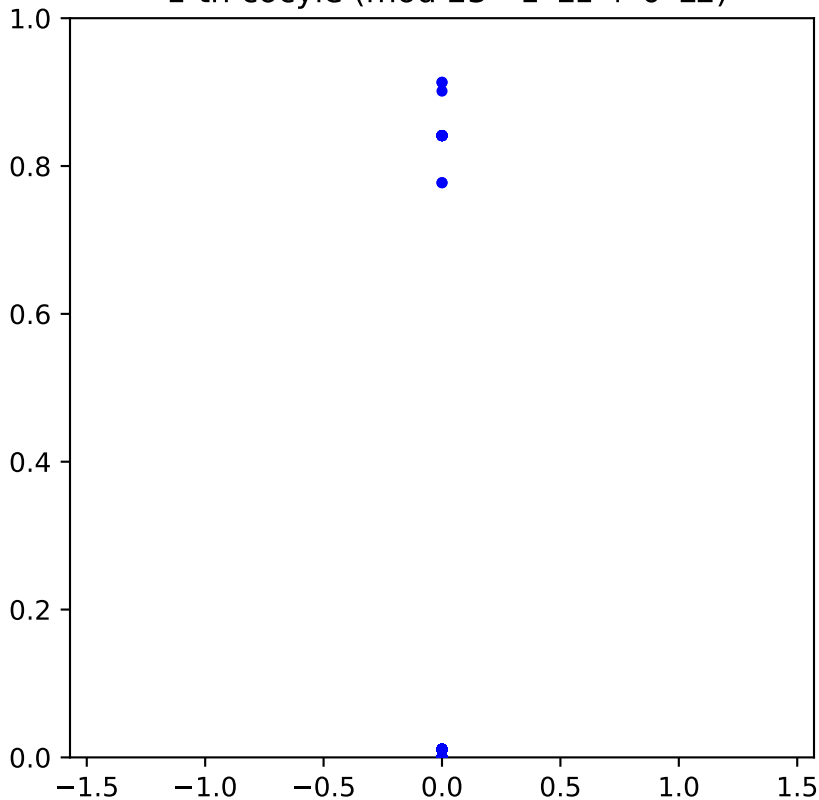
ircular coordinates 1-th cocyle (mod 23 - 1*L1 + 0*L2)



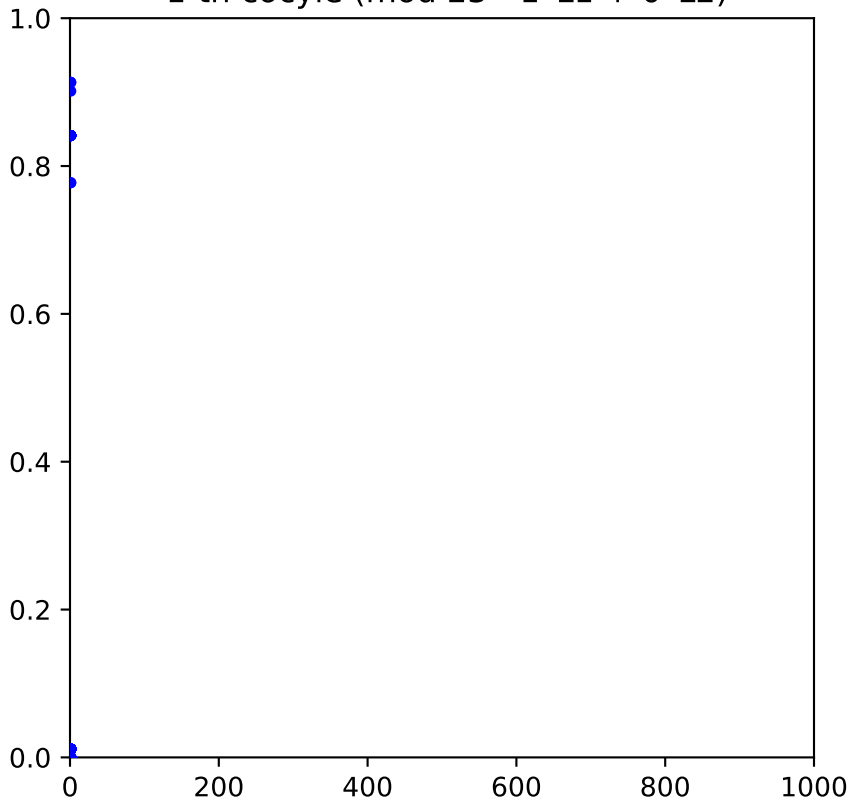
Circular coordinates/constant edges,
1-th cocyle (mod 23 - 1*L1 + 0*L2)



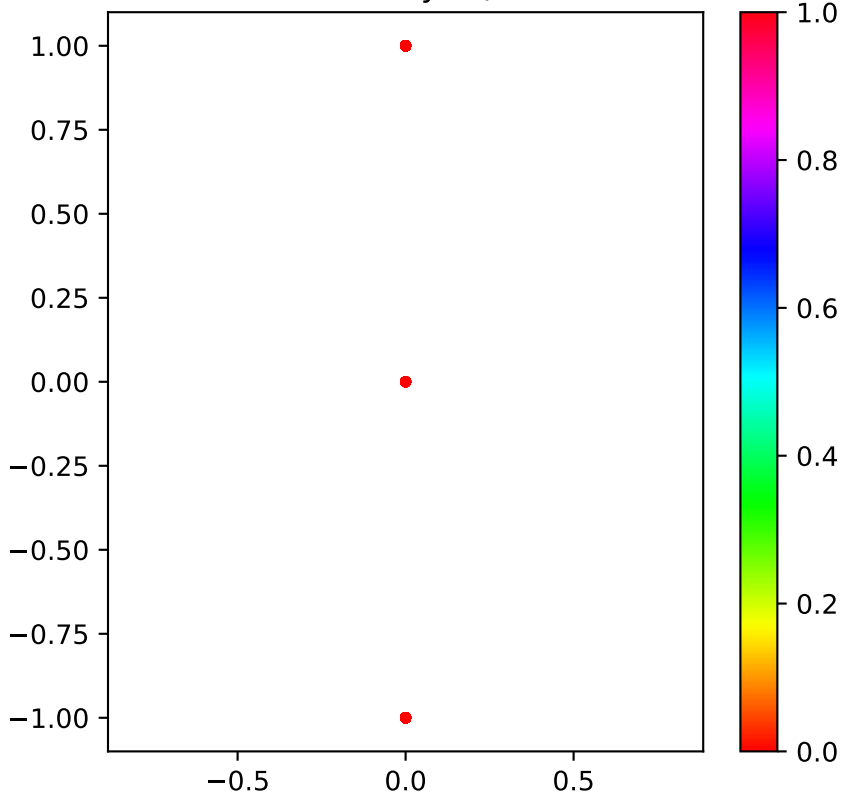
Correlation plot against angle,
1-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



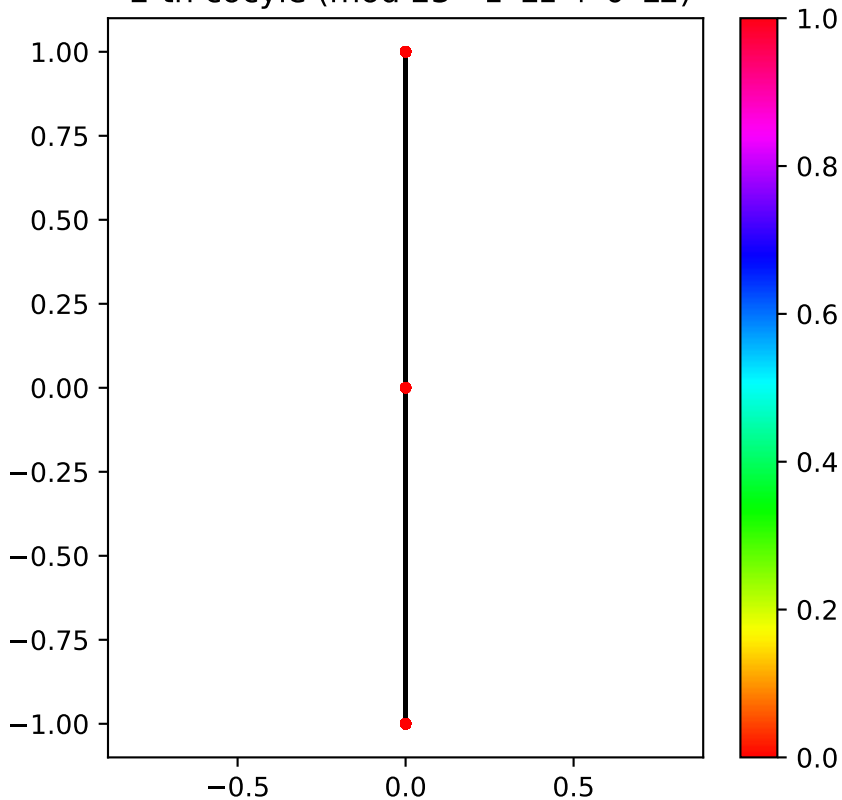
Correlation plot against distance,
1-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



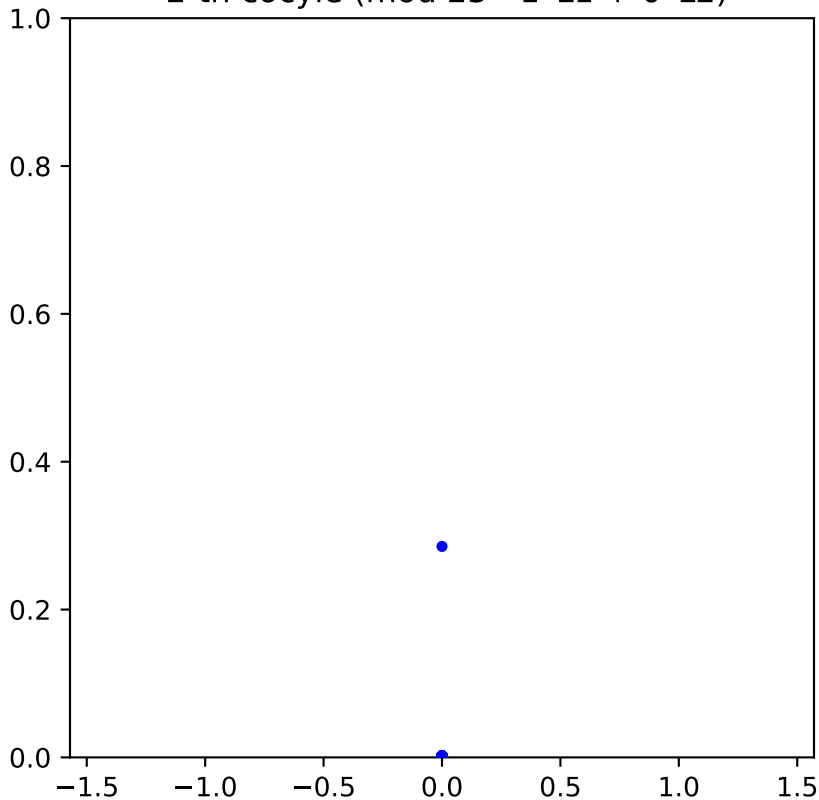
ircular coordinates 2-th cocyle (mod 23 - 1*L1 + 0*L2)



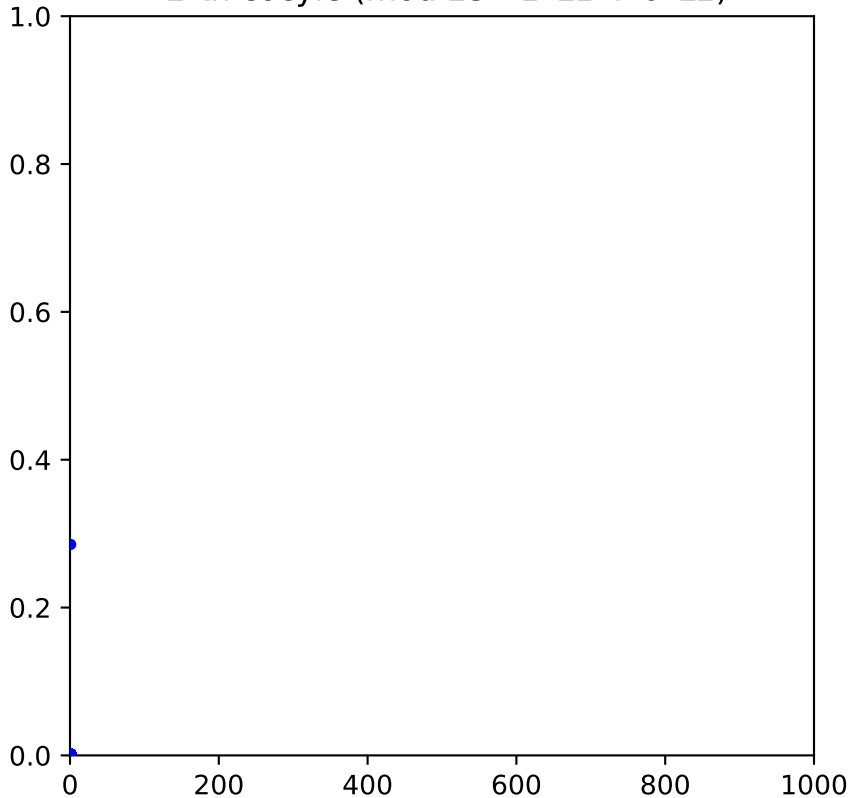
Circular coordinates/constant edges,
2-th cocyle (mod 23 - 1*L1 + 0*L2)



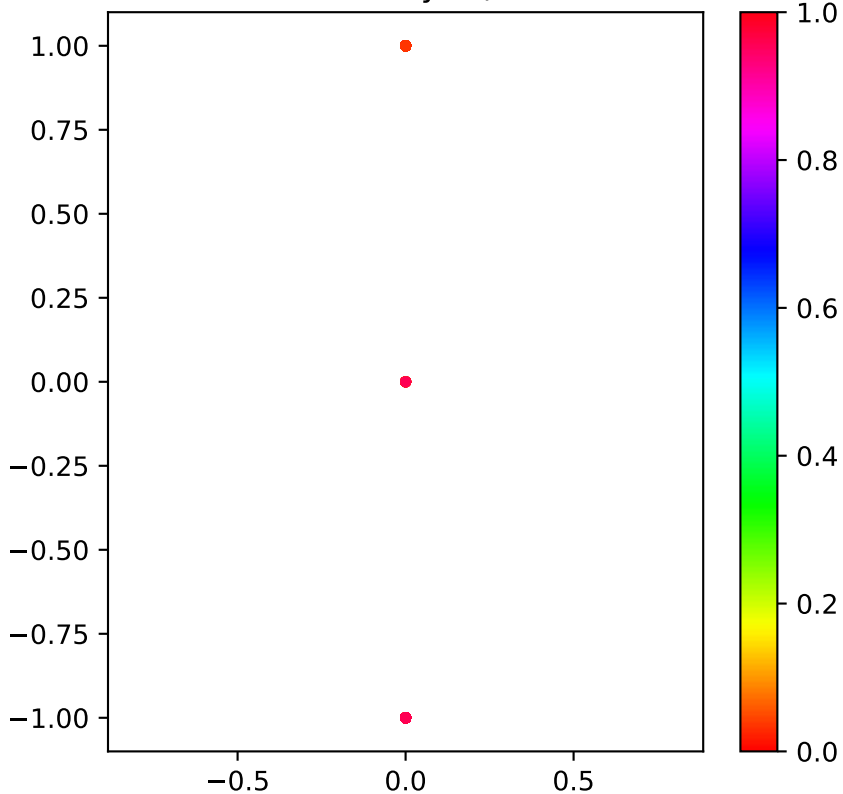
Correlation plot against angle,
2-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



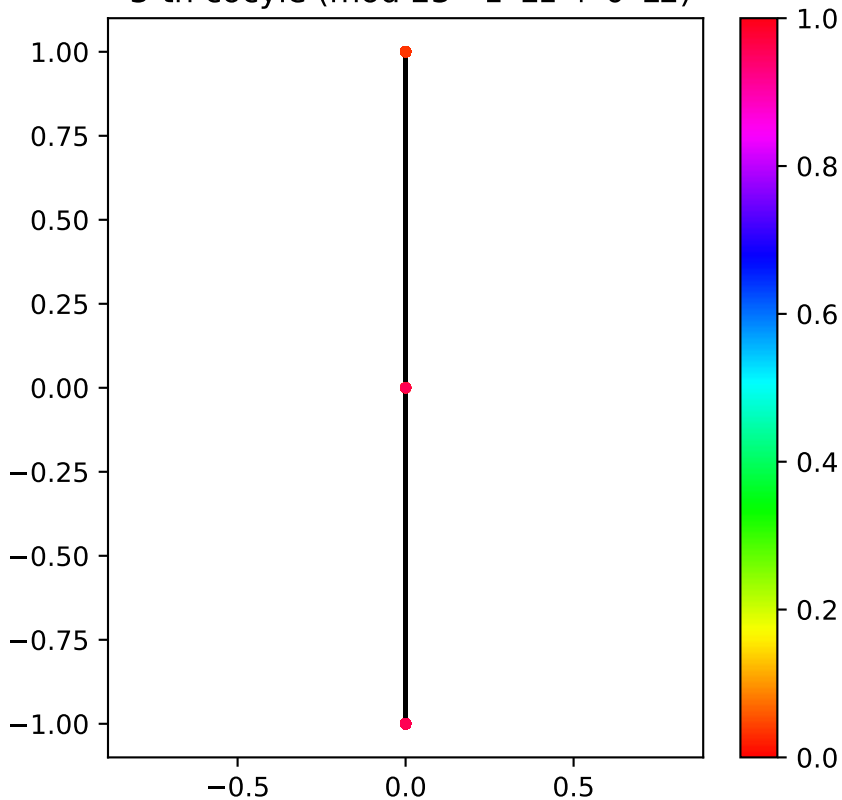
Correlation plot against distance,
2-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



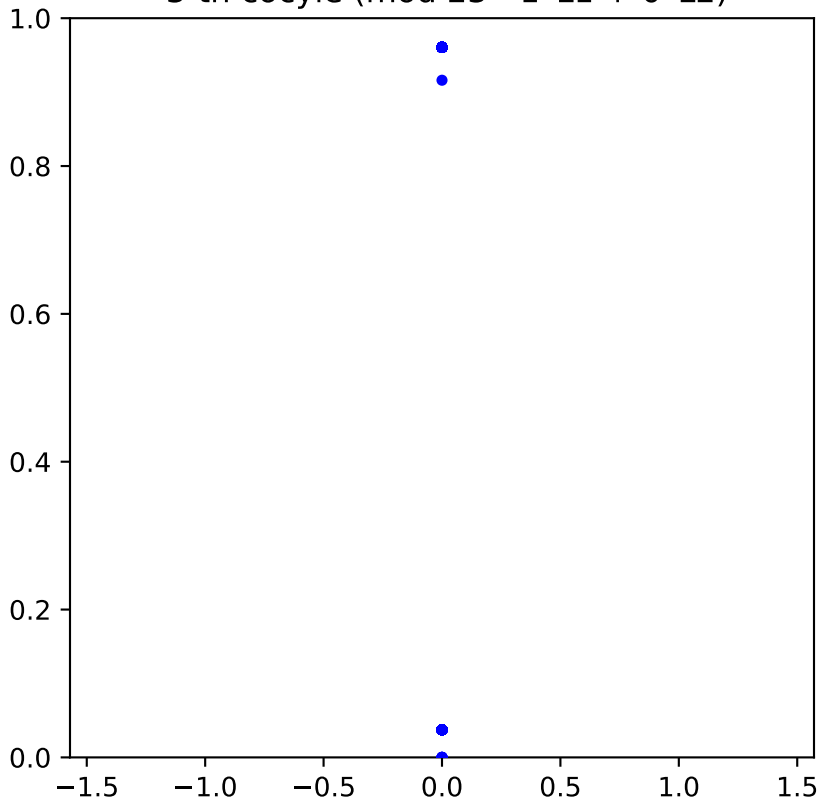
ircular coordinates 3-th cocyle (mod 23 - 1*L1 + 0*L2)



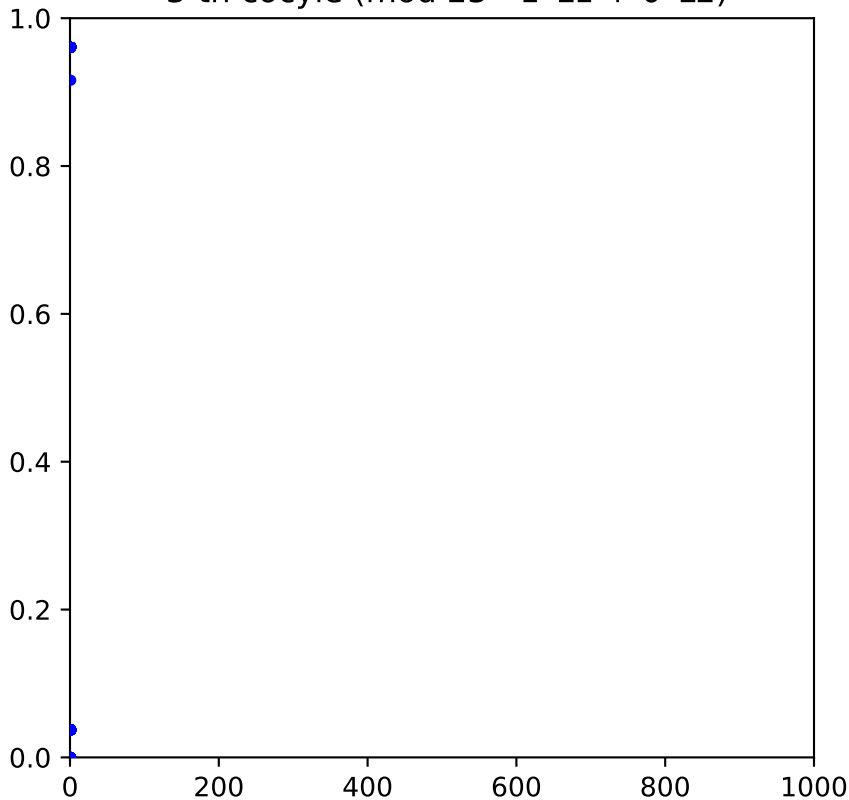
Circular coordinates/constant edges,
3-th cocyle (mod 23 - 1*L1 + 0*L2)



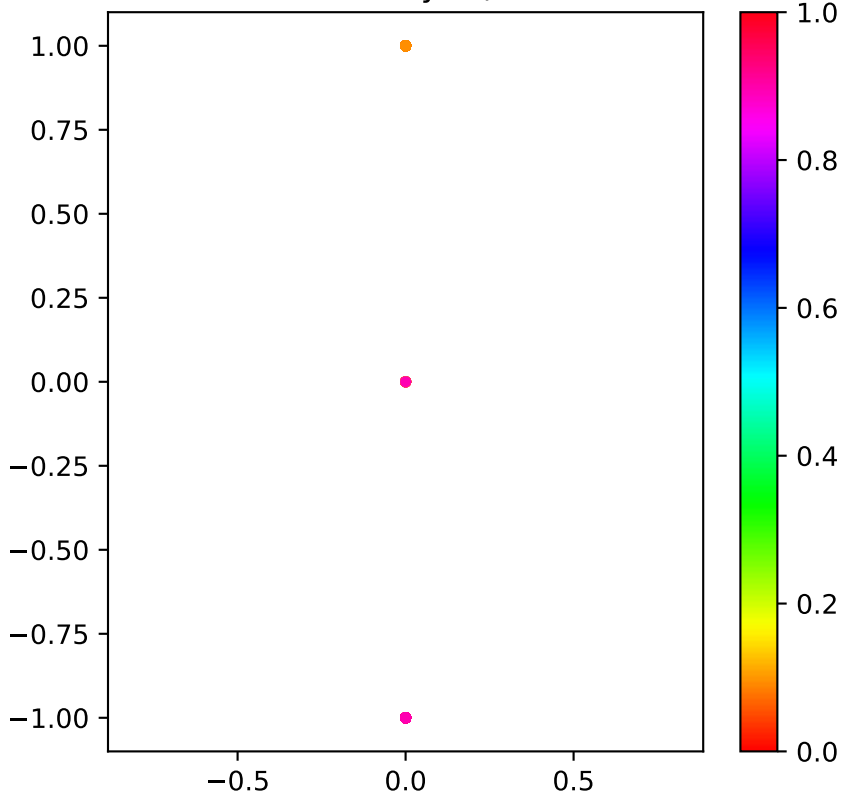
Correlation plot against angle,
3-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



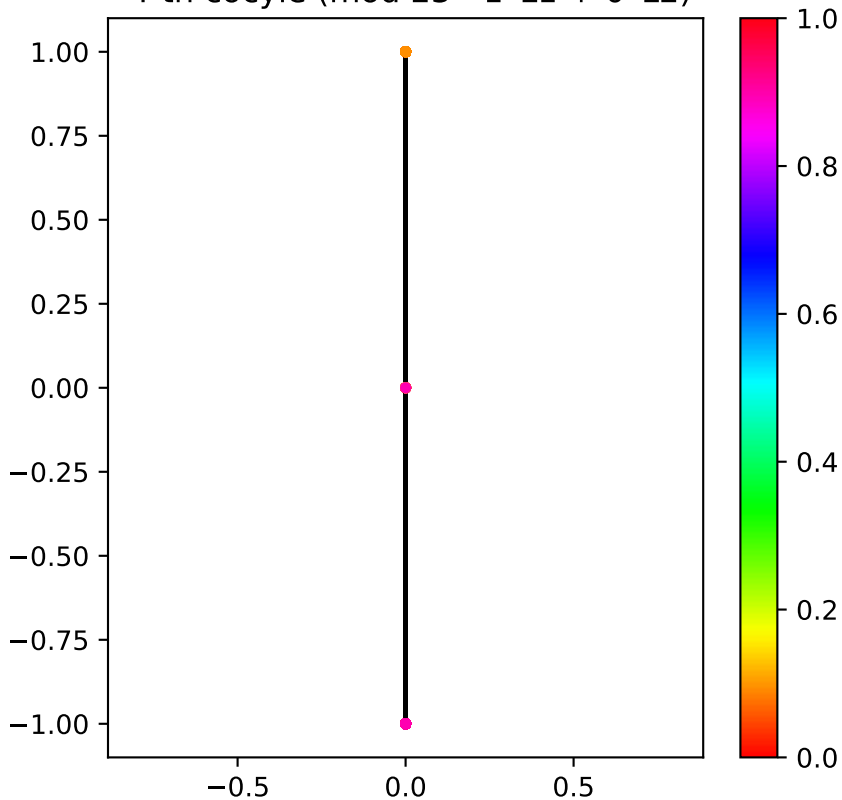
Correlation plot against distance,
3-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



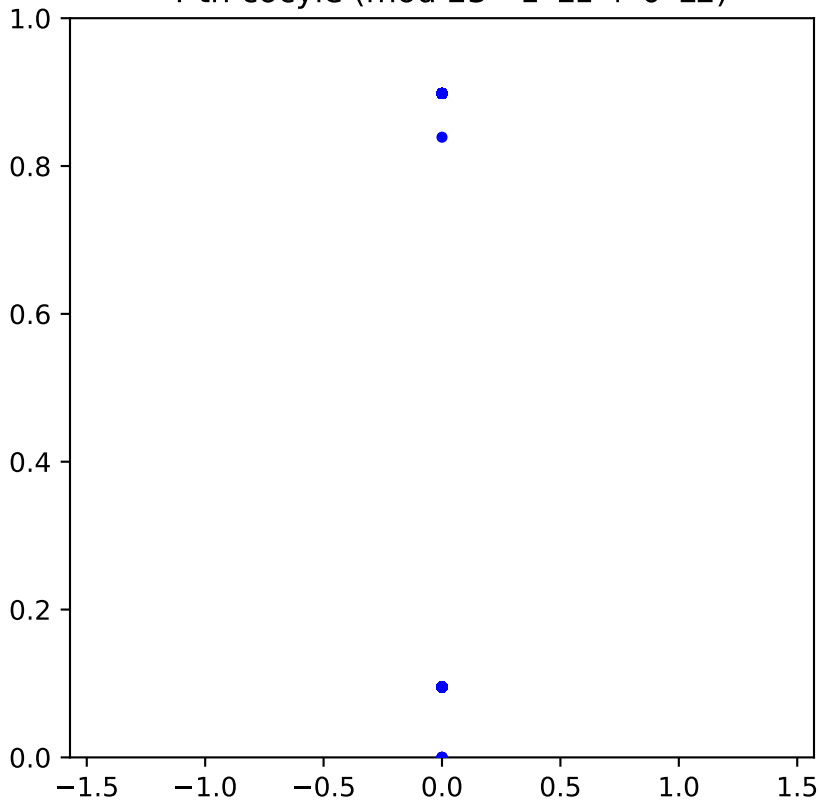
ircular coordinates 4-th cocyle (mod 23 - 1*L1 + 0*L2)



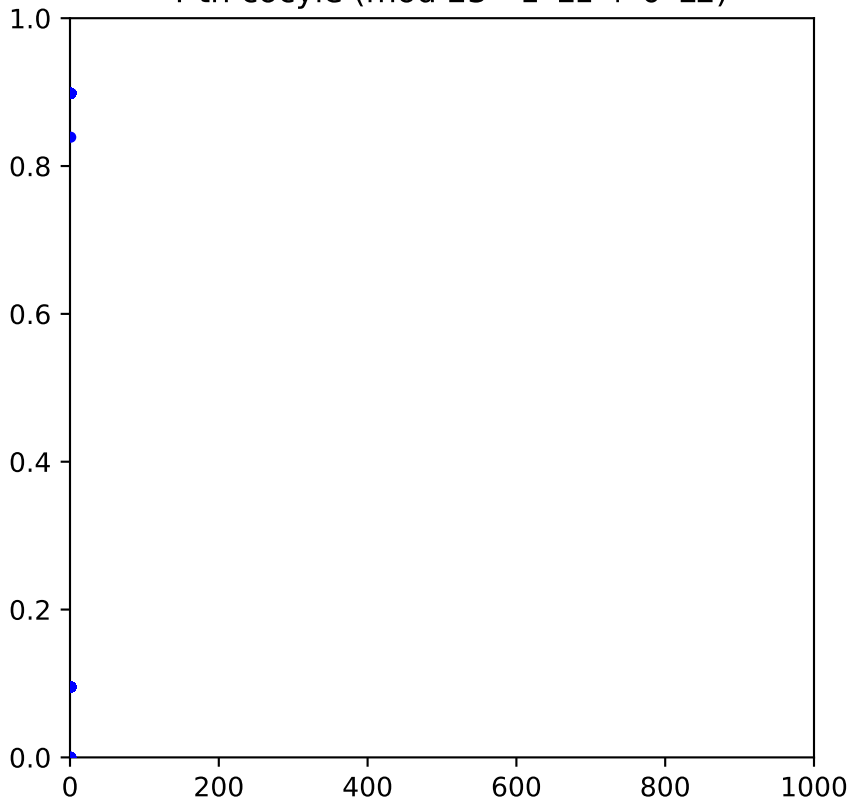
Circular coordinates/constant edges,
4-th cocyle (mod 23 - 1*L1 + 0*L2)



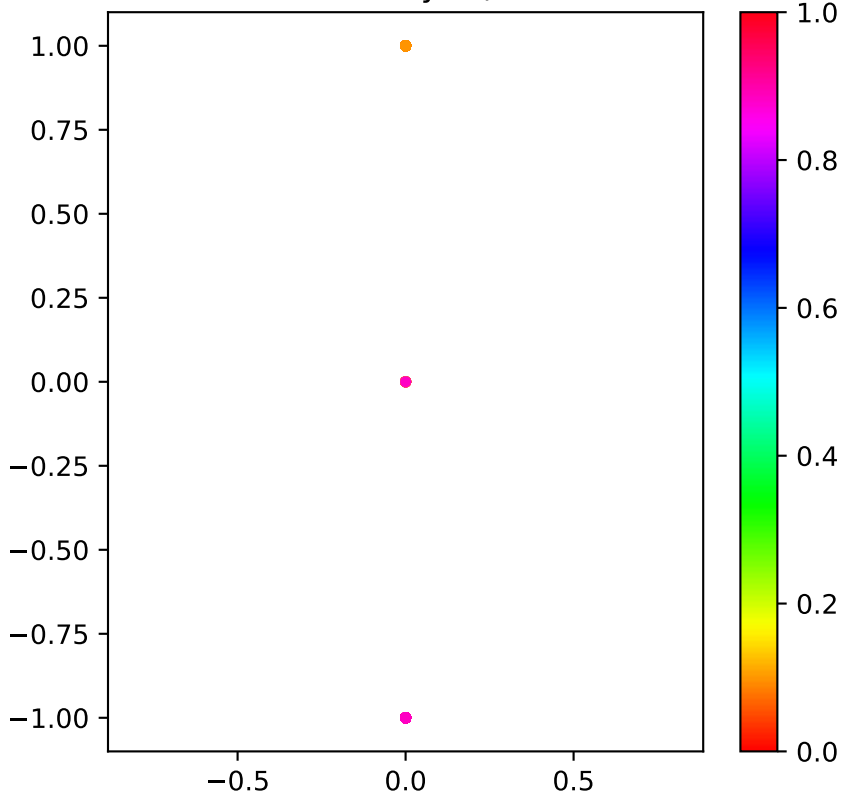
Correlation plot against angle,
4-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



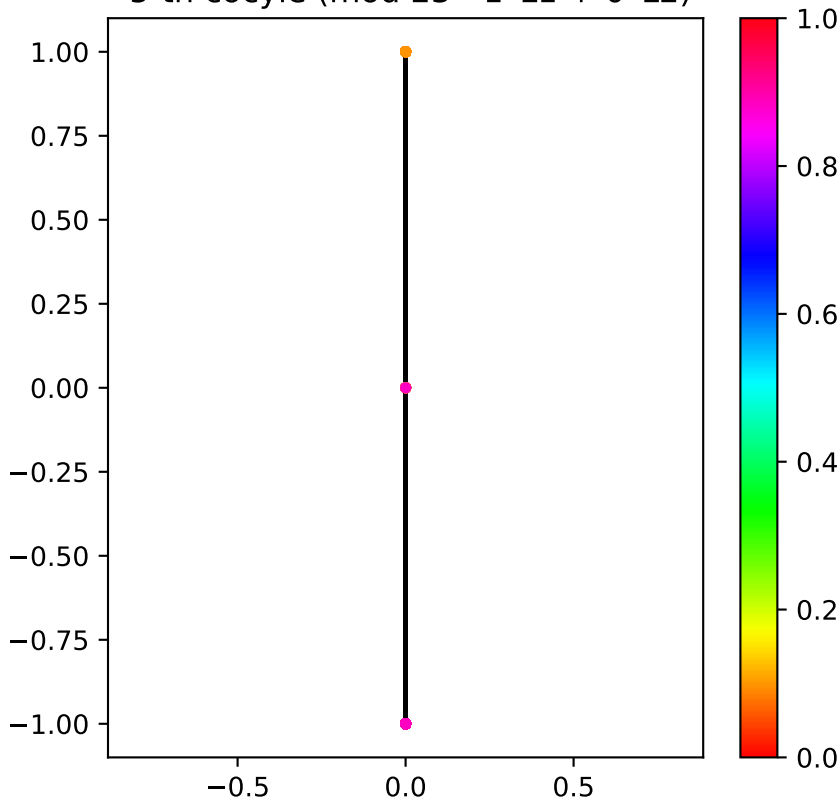
Correlation plot against distance,
4-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



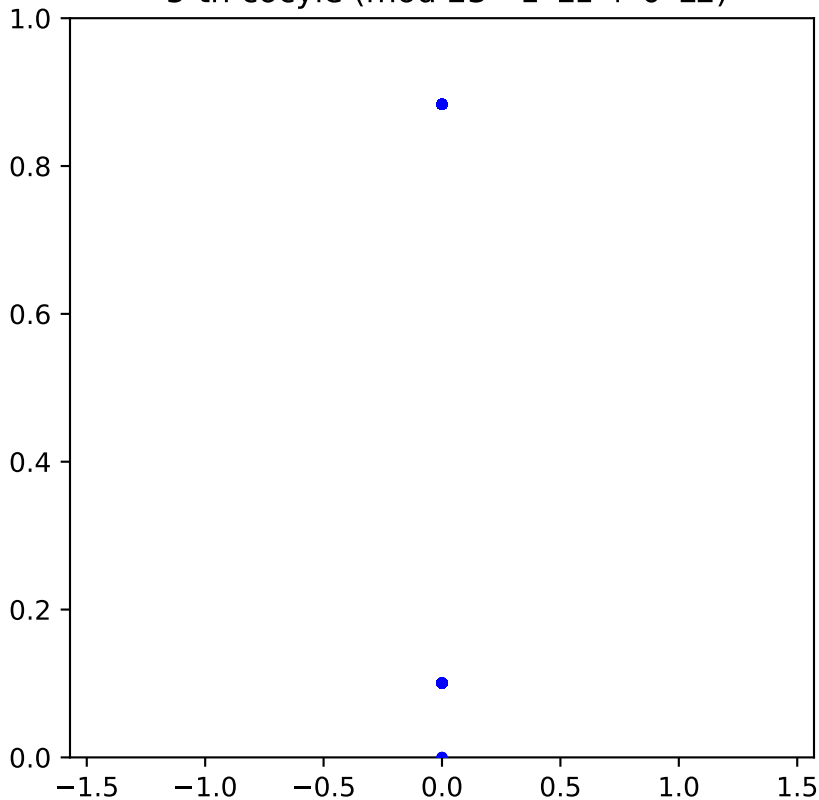
ircular coordinates 5-th cocyle (mod 23 - 1*L1 + 0*L2)



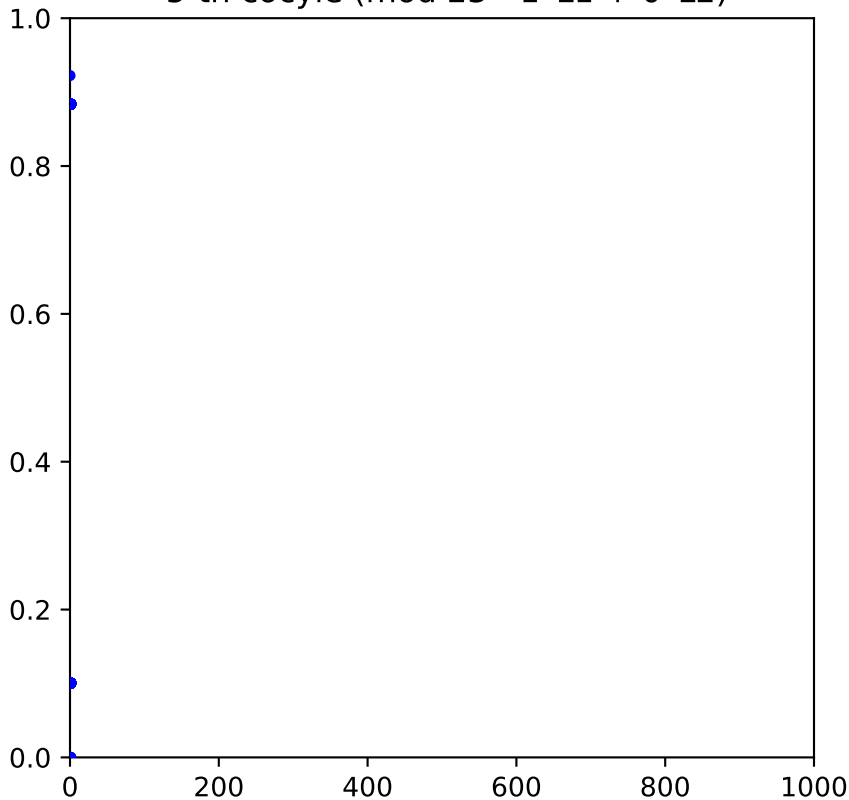
Circular coordinates/constant edges,
5-th cocyle (mod 23 - 1*L1 + 0*L2)



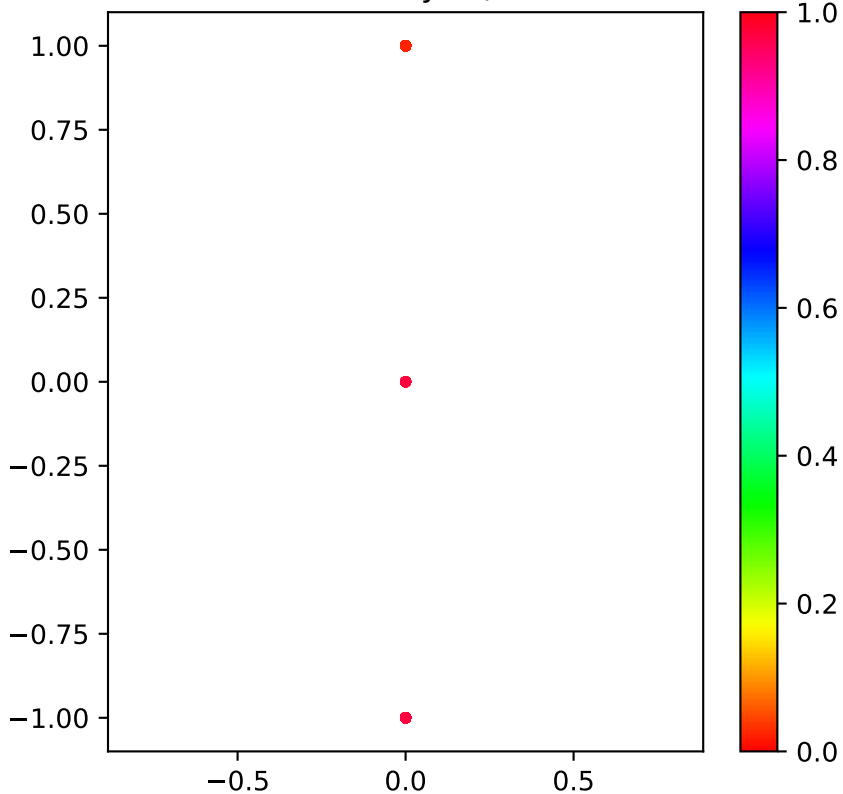
Correlation plot against angle,
5-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



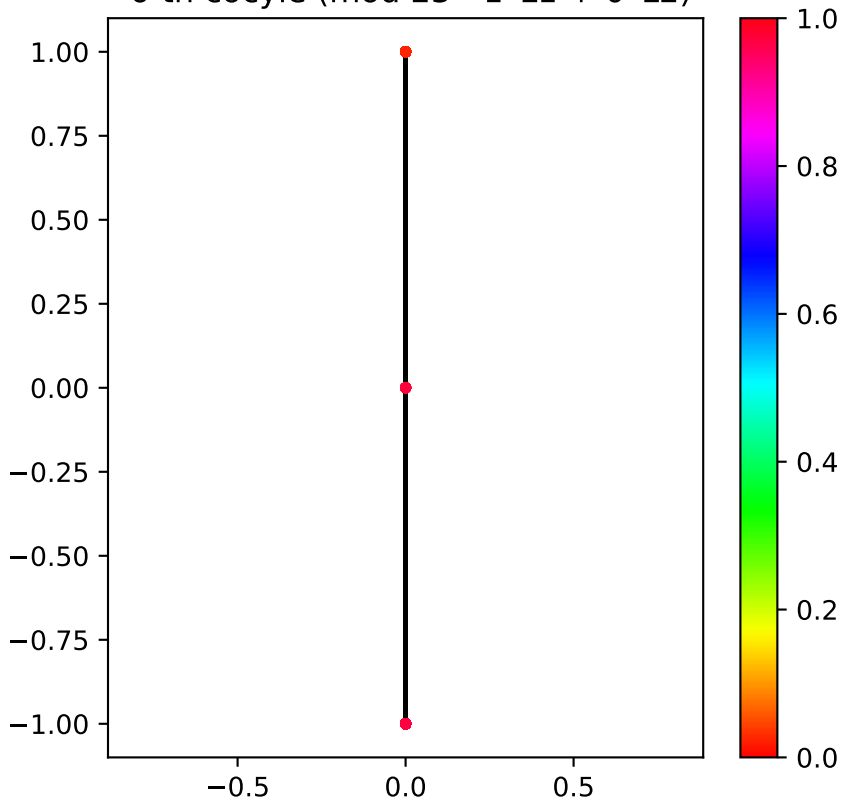
Correlation plot against distance,
5-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



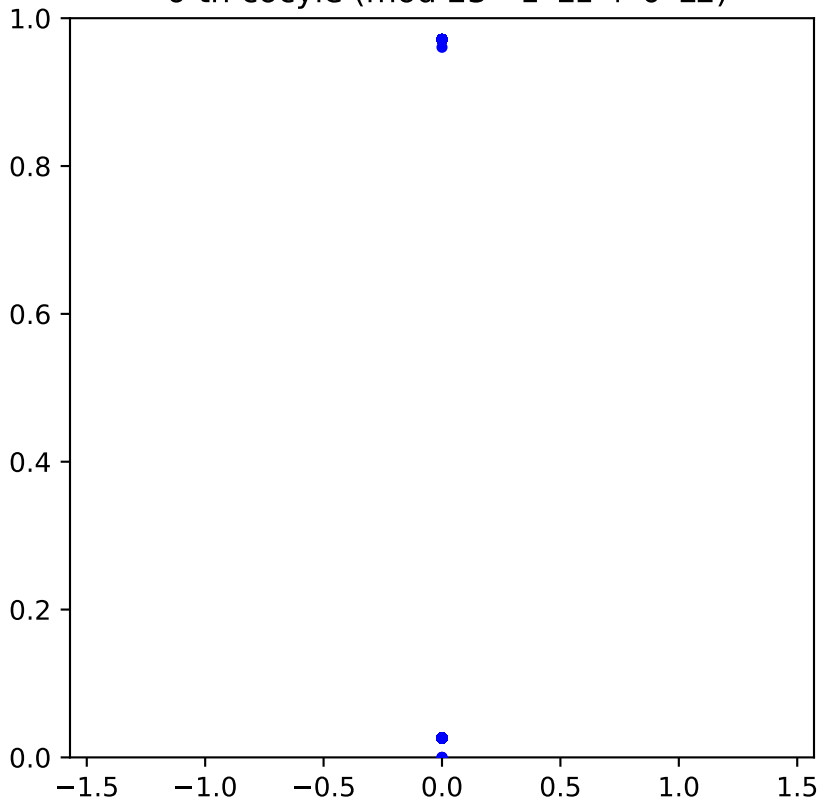
ircular coordinates 6-th cocyle (mod 23 - 1*L1 + 0*L2)



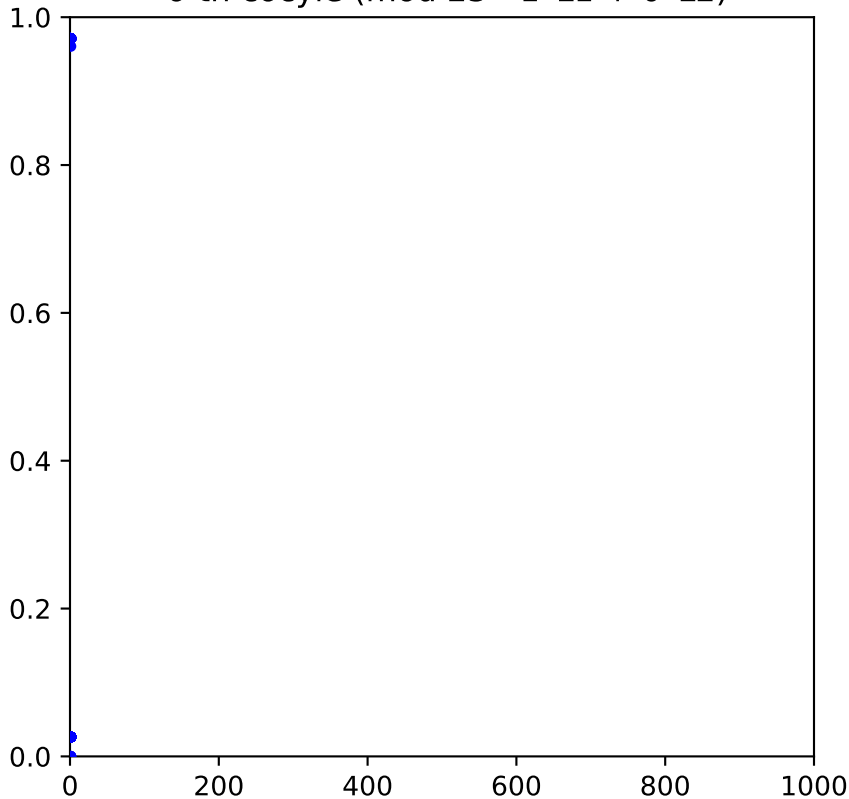
Circular coordinates/constant edges,
6-th cocyle (mod 23 - 1*L1 + 0*L2)



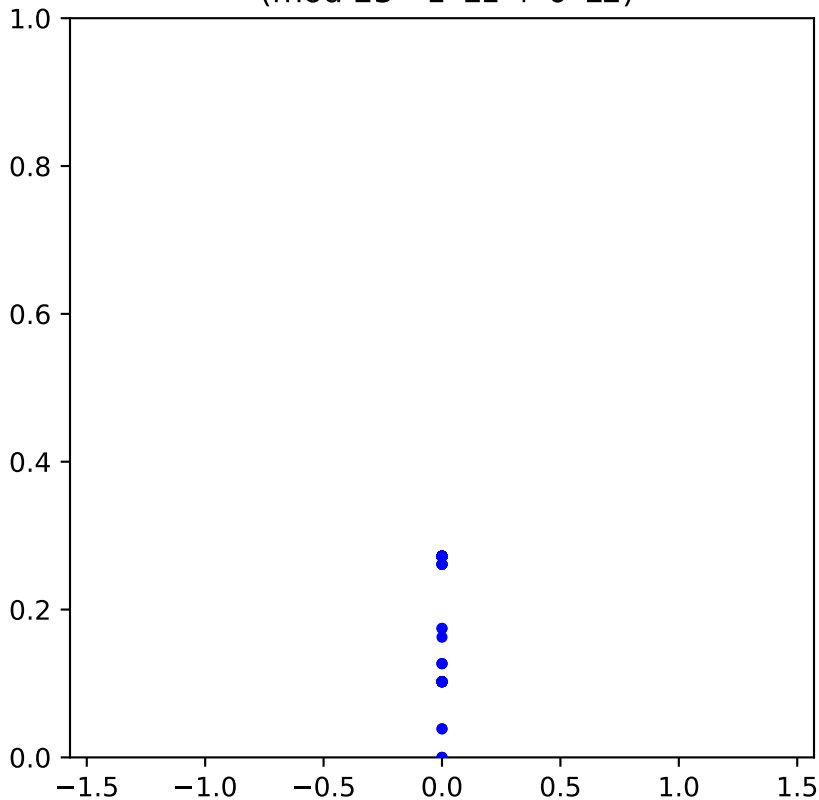
Correlation plot against angle,
6-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)



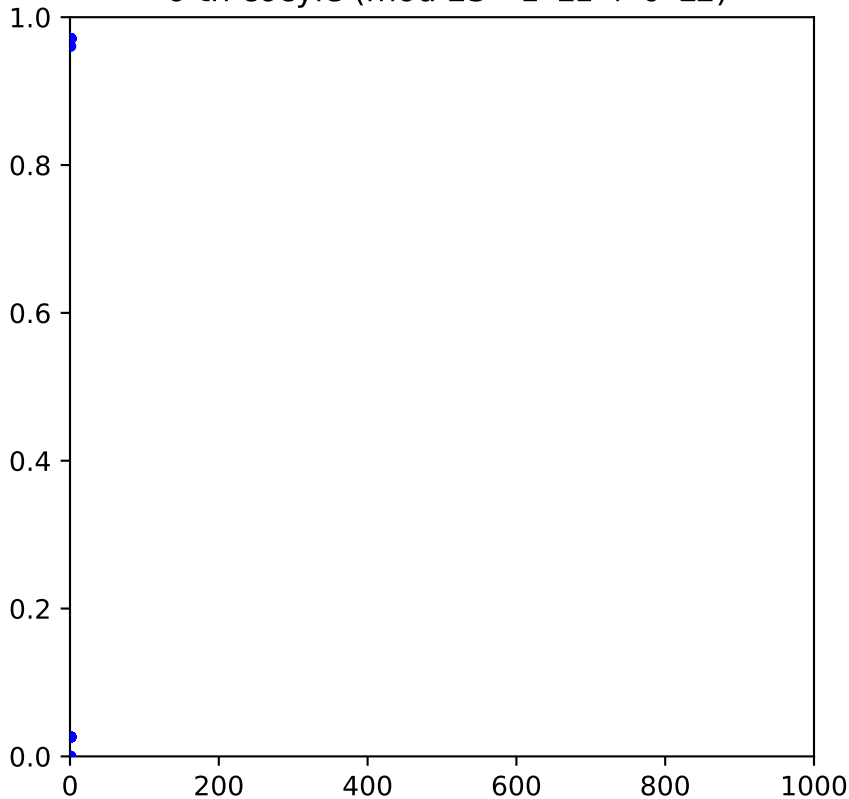
Correlation plot against distance,
6-th cocyle (mod 23 - $1 \cdot L1 + 0 \cdot L2$)

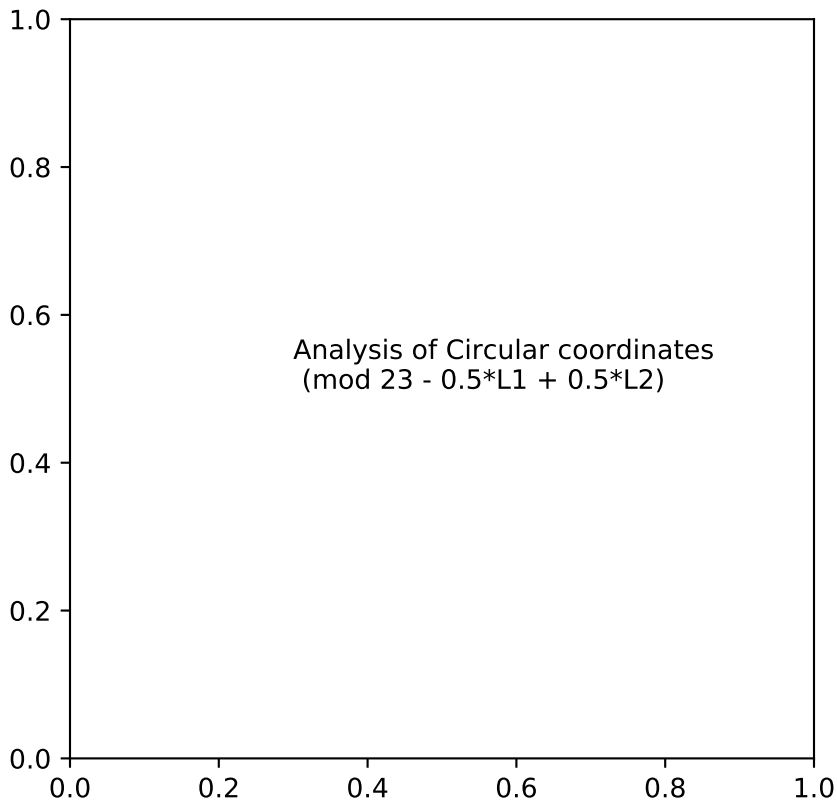


Correlation plot
(mod 23 - 1*L1 + 0*L2)

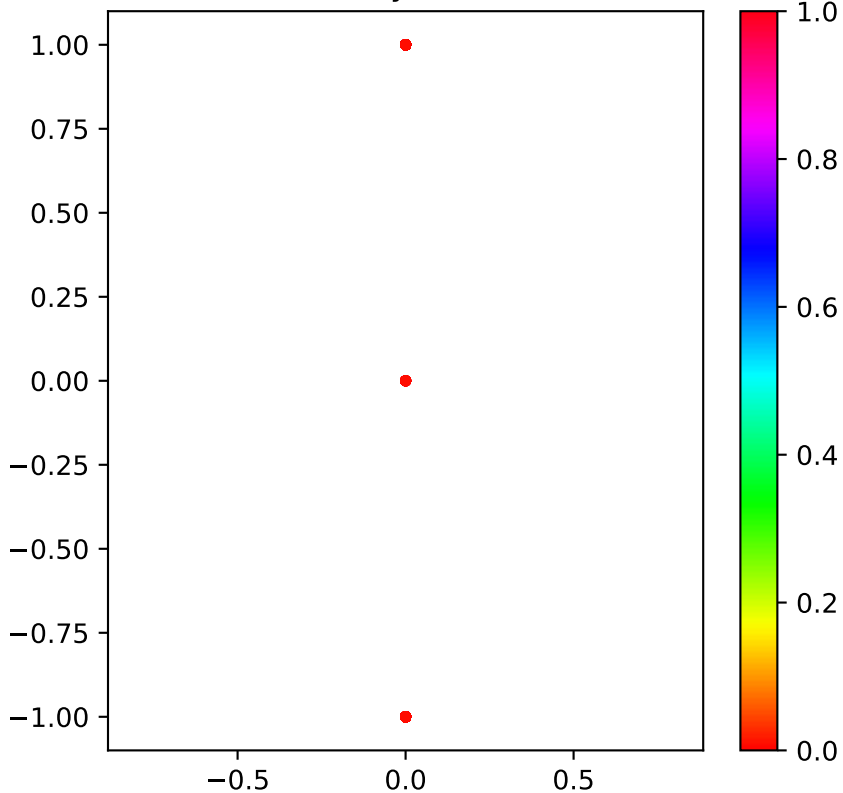


Correlation plot against distance,
6-th cocyle (mod 23 - 1*L1 + 0*L2)

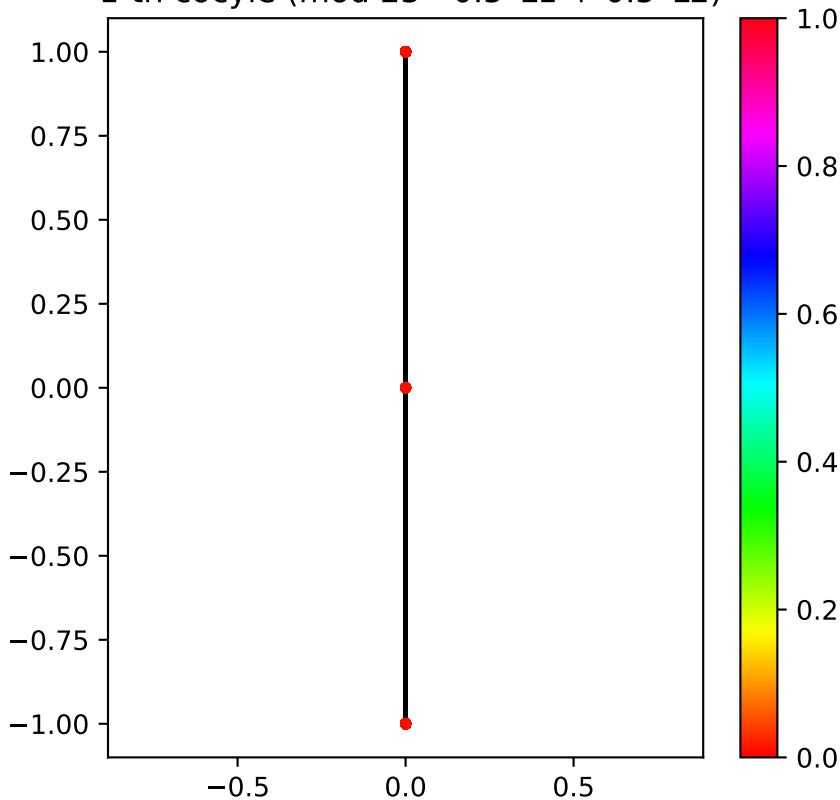




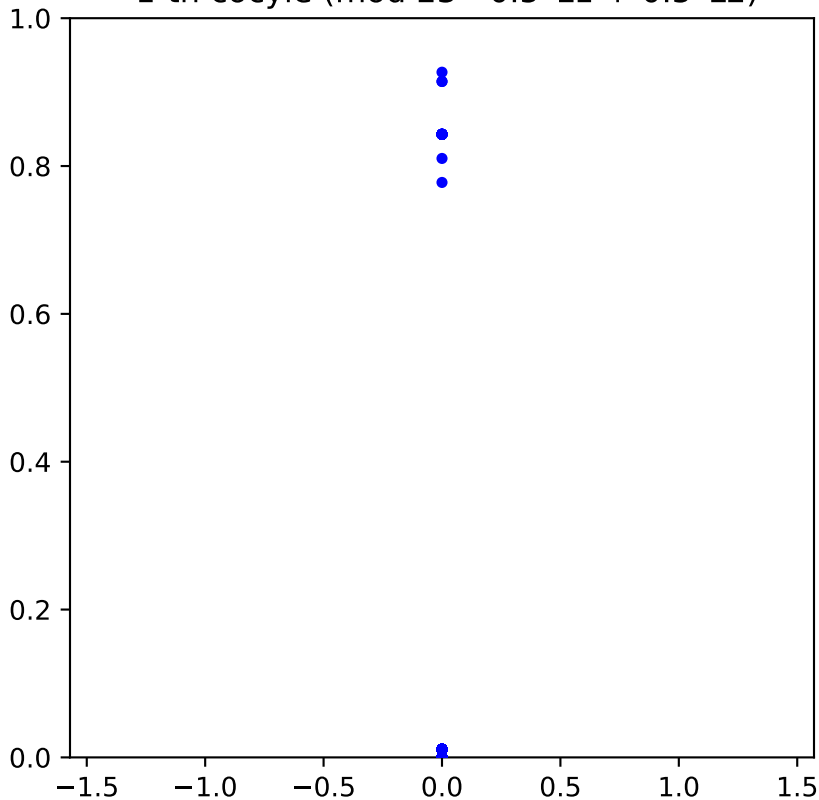
ular coordinates 1-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



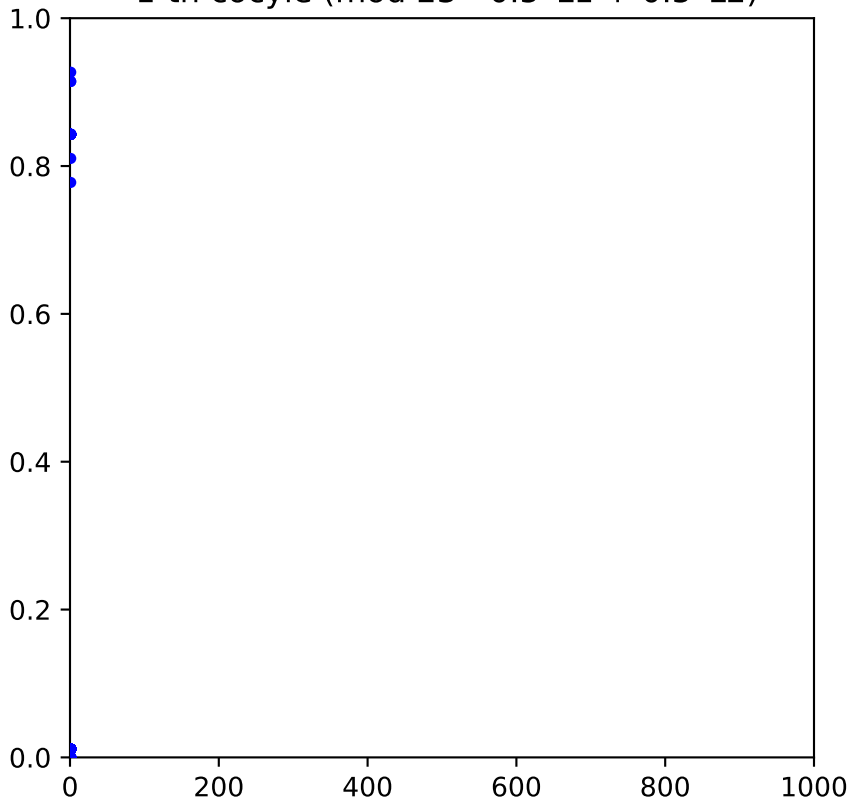
Circular coordinates/constant edges,
1-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



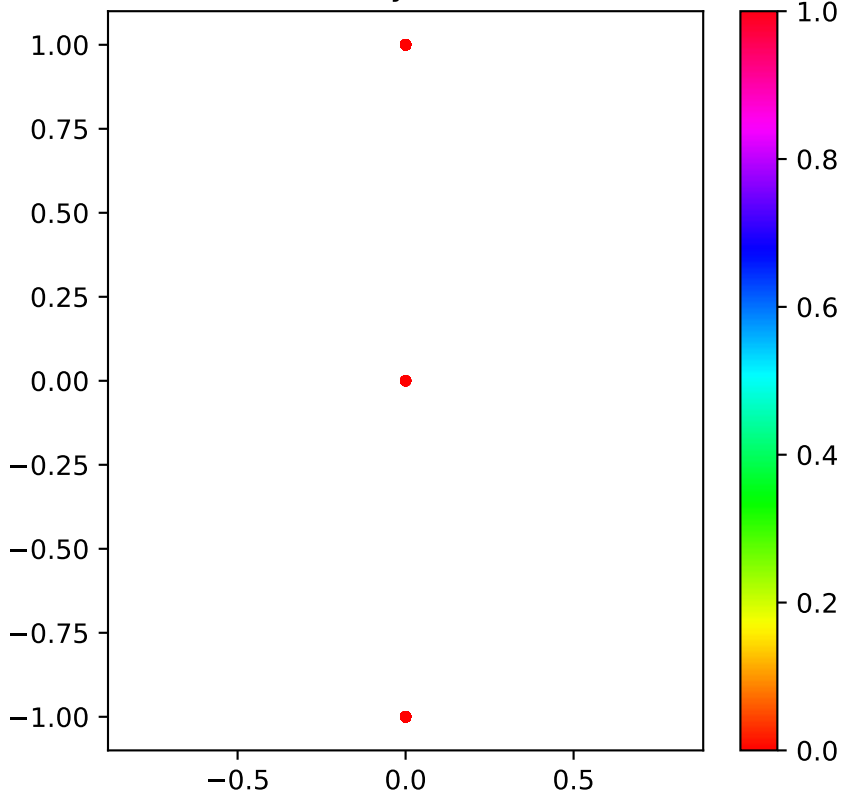
Correlation plot against angle,
1-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



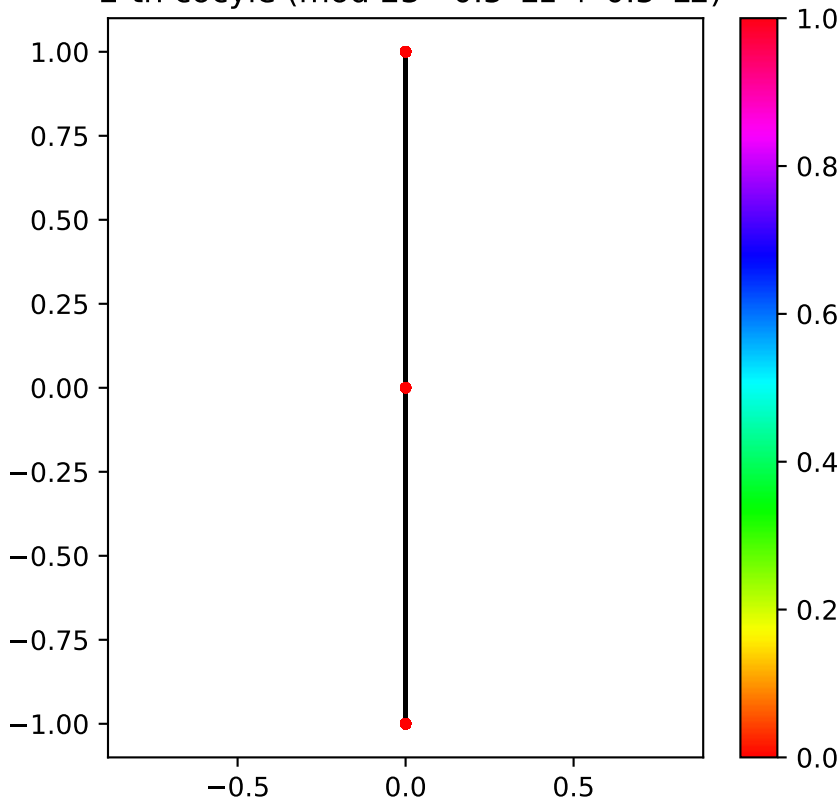
Correlation plot against distance,
1-th cocyle (mod 23 - $0.5 \cdot L1 + 0.5 \cdot L2$)



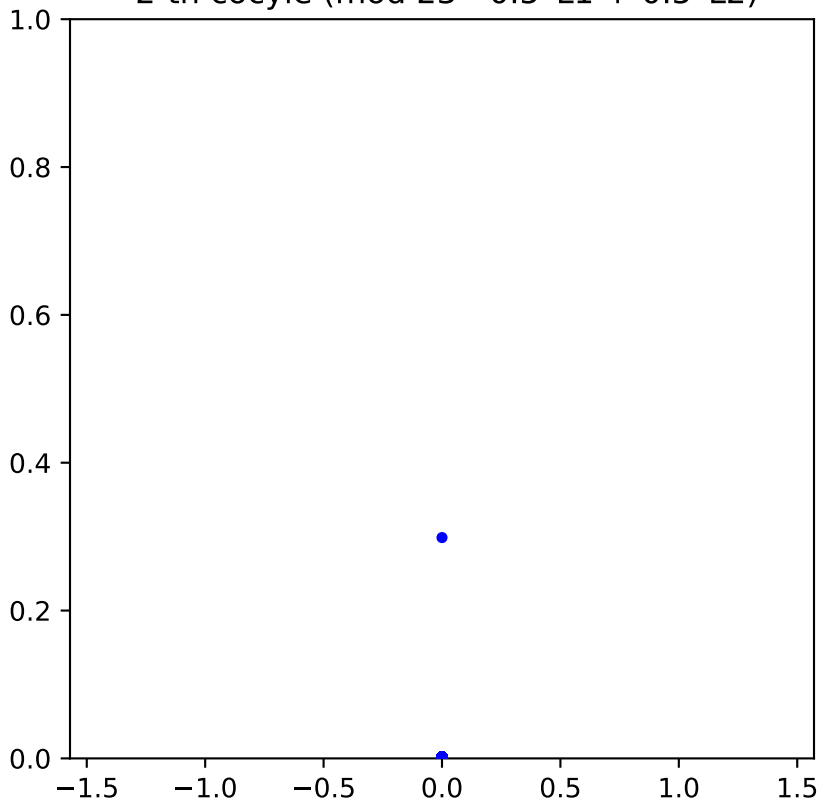
ular coordinates 2-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



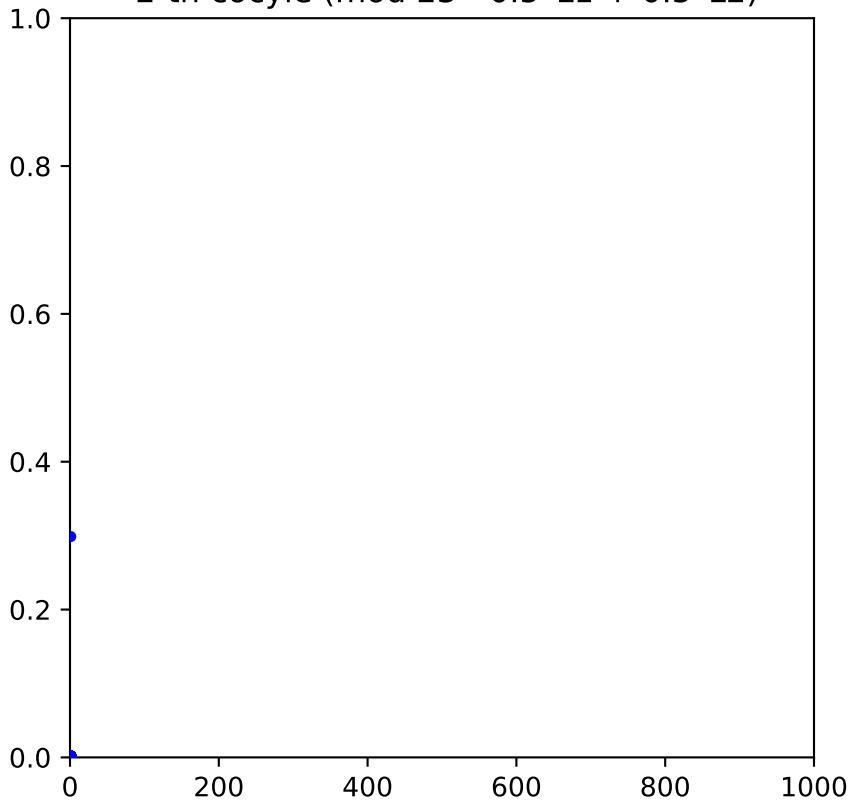
Circular coordinates/constant edges,
2-th cocycle (mod 23 - 0.5*L1 + 0.5*L2)



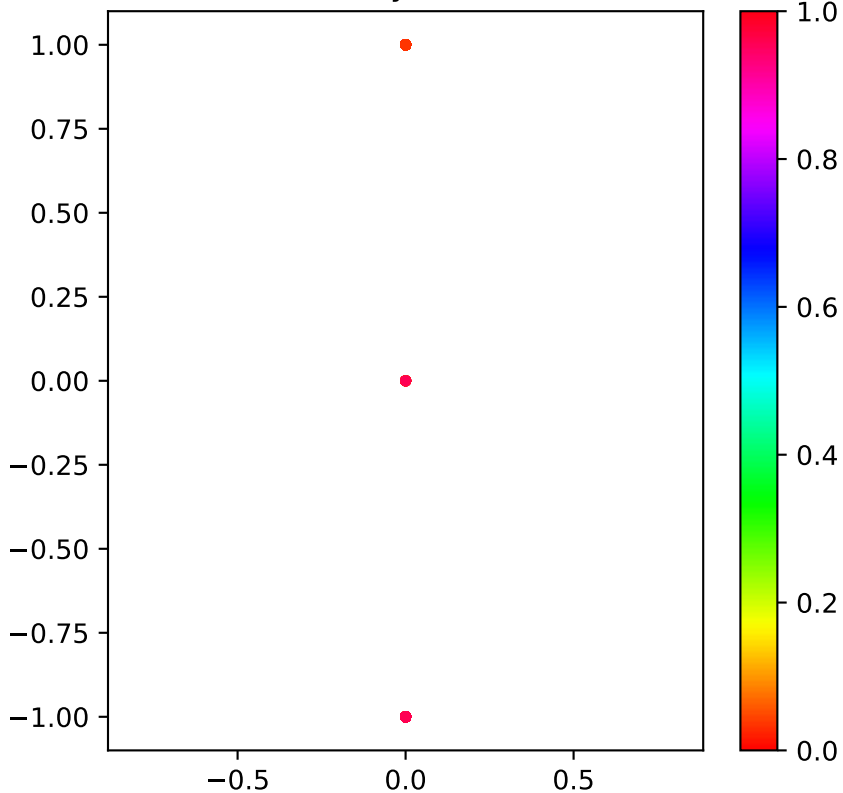
Correlation plot against angle,
2-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



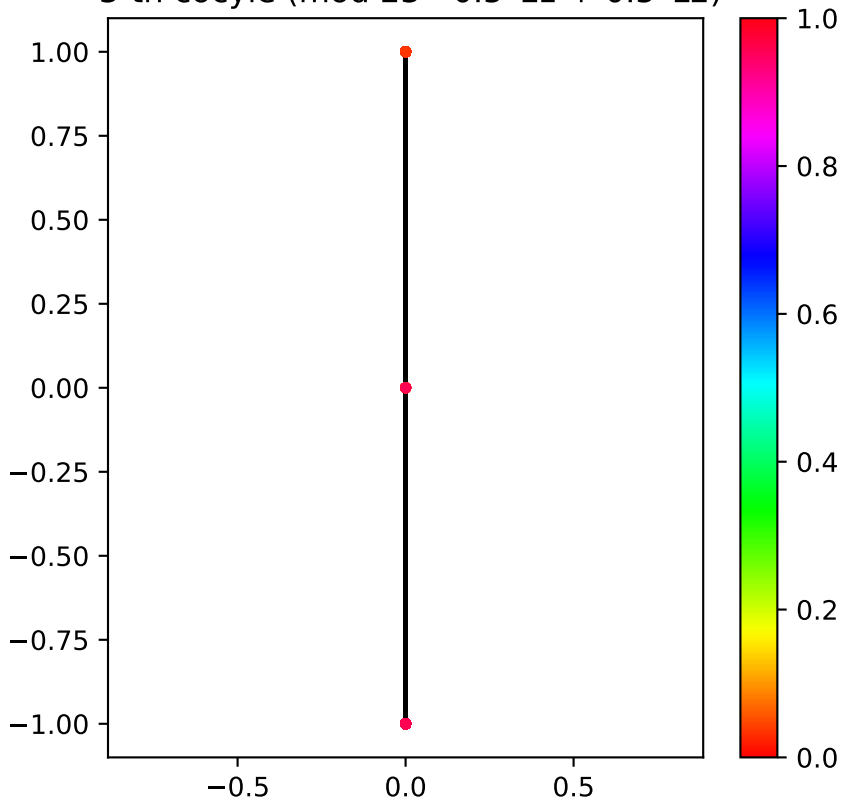
Correlation plot against distance,
2-th cocyle (mod 23 - $0.5 \cdot L1 + 0.5 \cdot L2$)



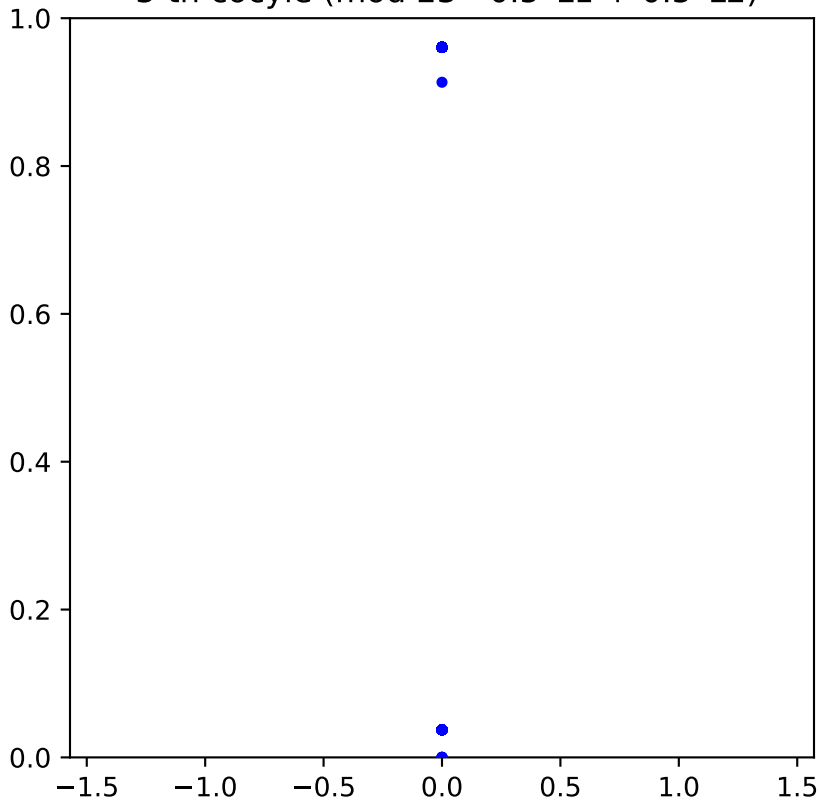
ular coordinates 3-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



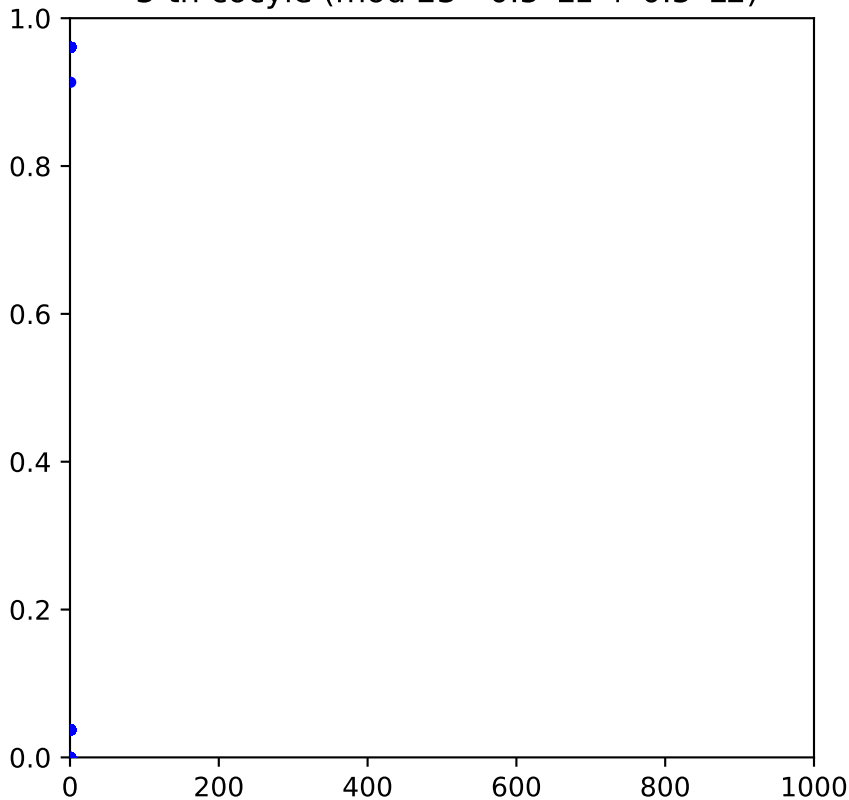
Circular coordinates/constant edges,
3-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



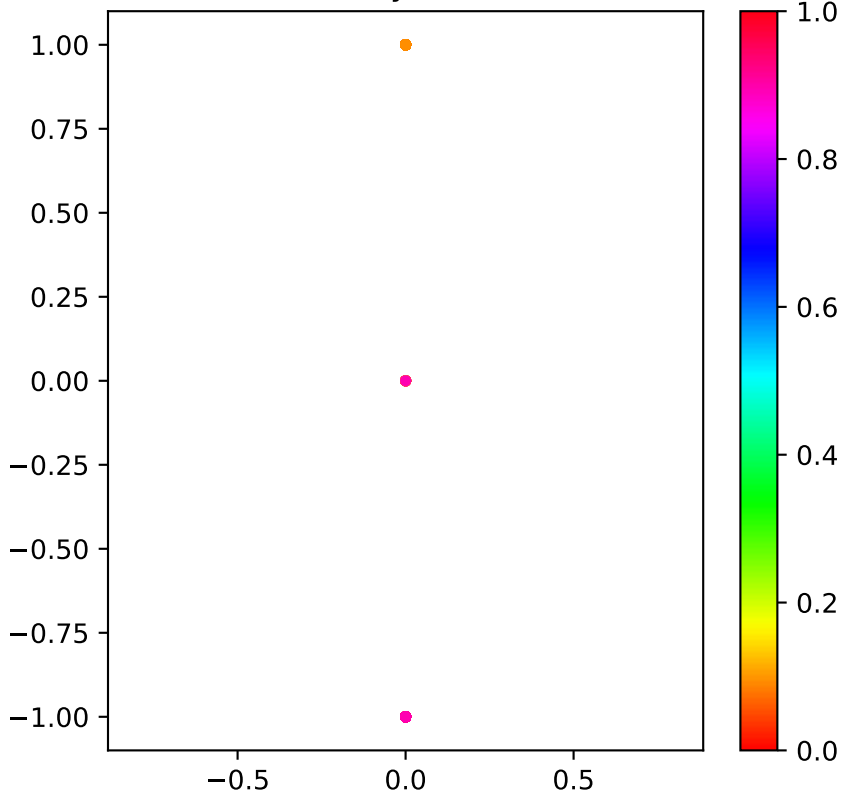
Correlation plot against angle,
3-th cocyle (mod 23 - $0.5*L1 + 0.5*L2$)



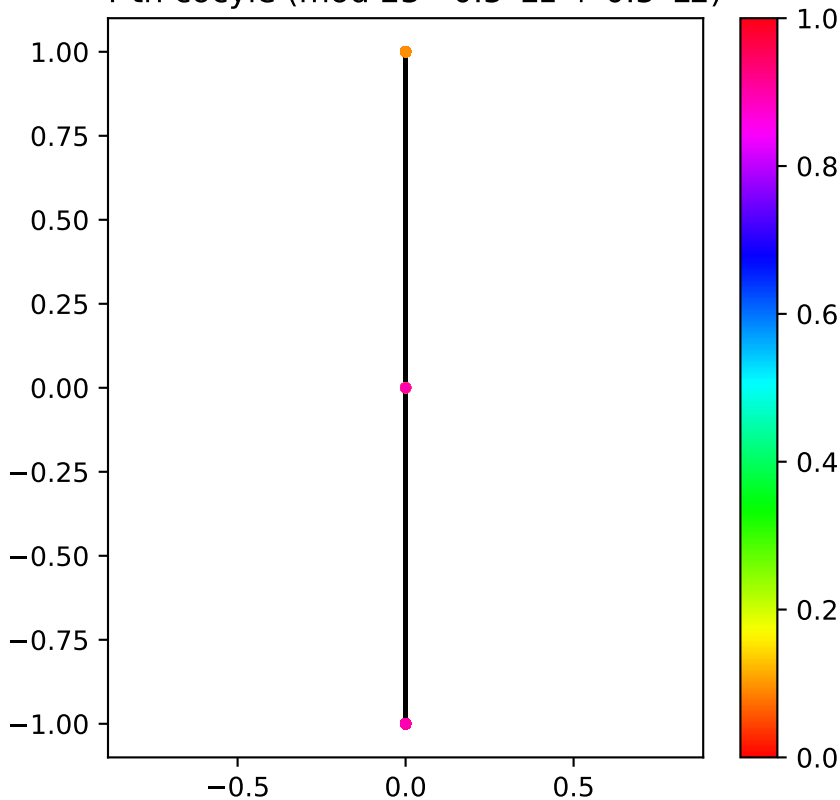
Correlation plot against distance,
3-th cocyle (mod 23 - $0.5*L1 + 0.5*L2$)



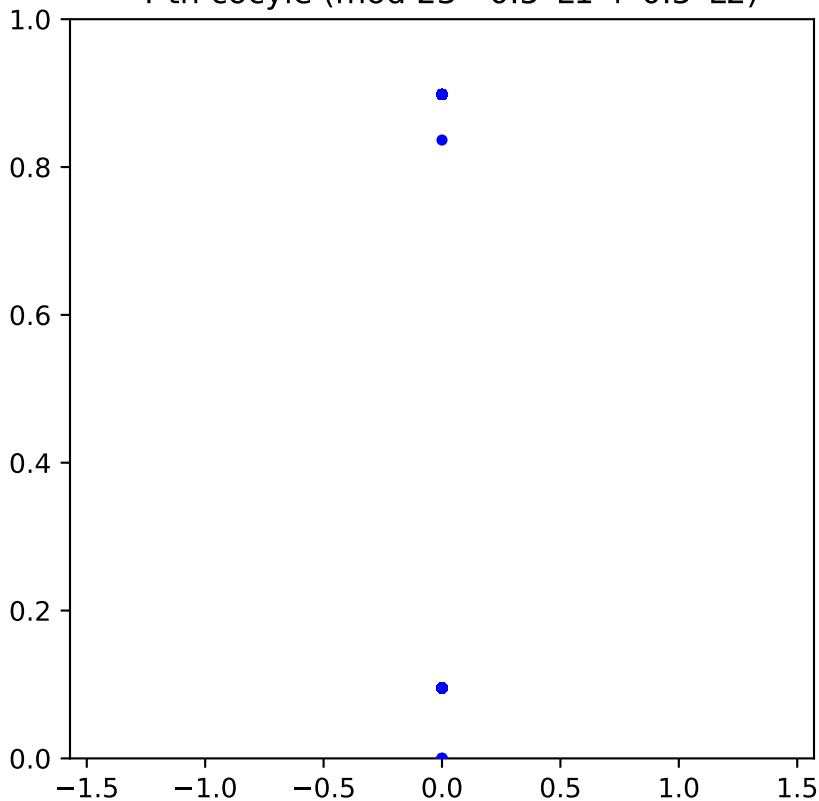
ular coordinates 4-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



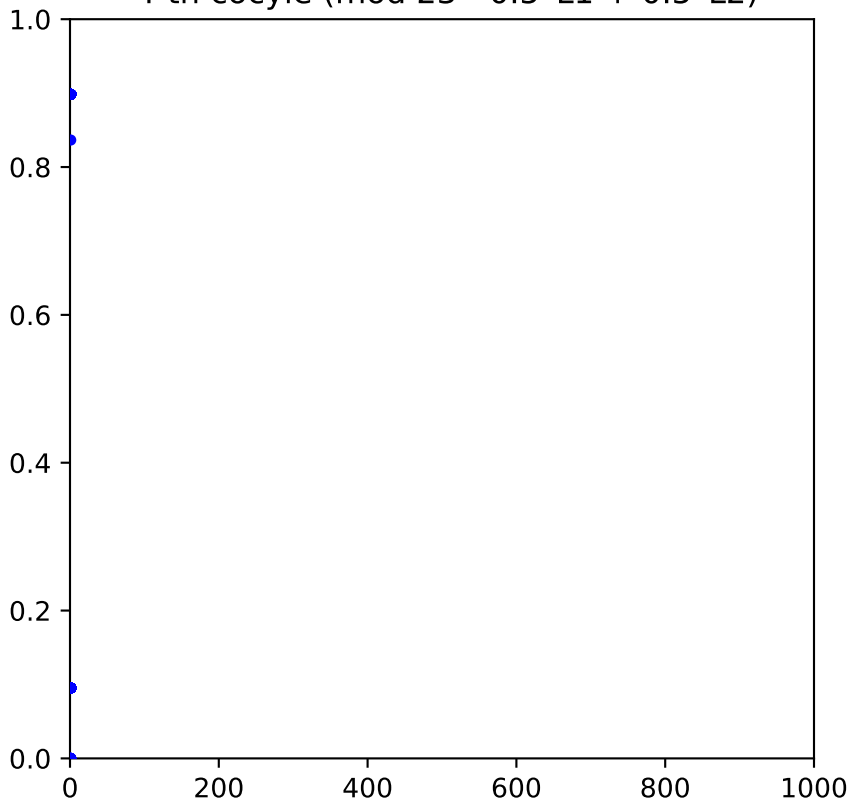
Circular coordinates/constant edges,
4-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



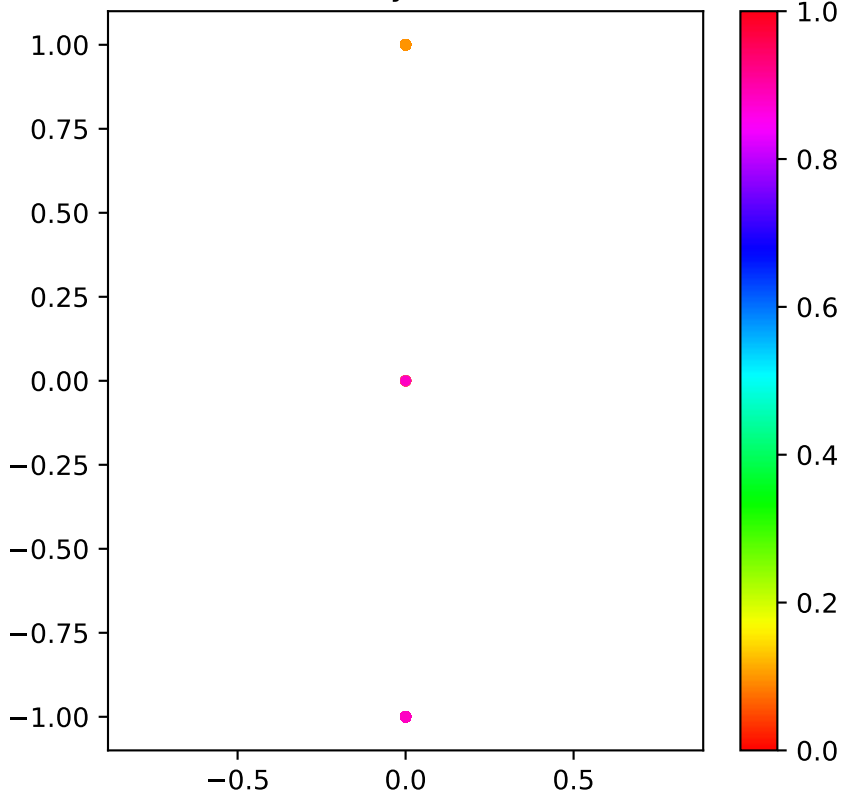
Correlation plot against angle,
4-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



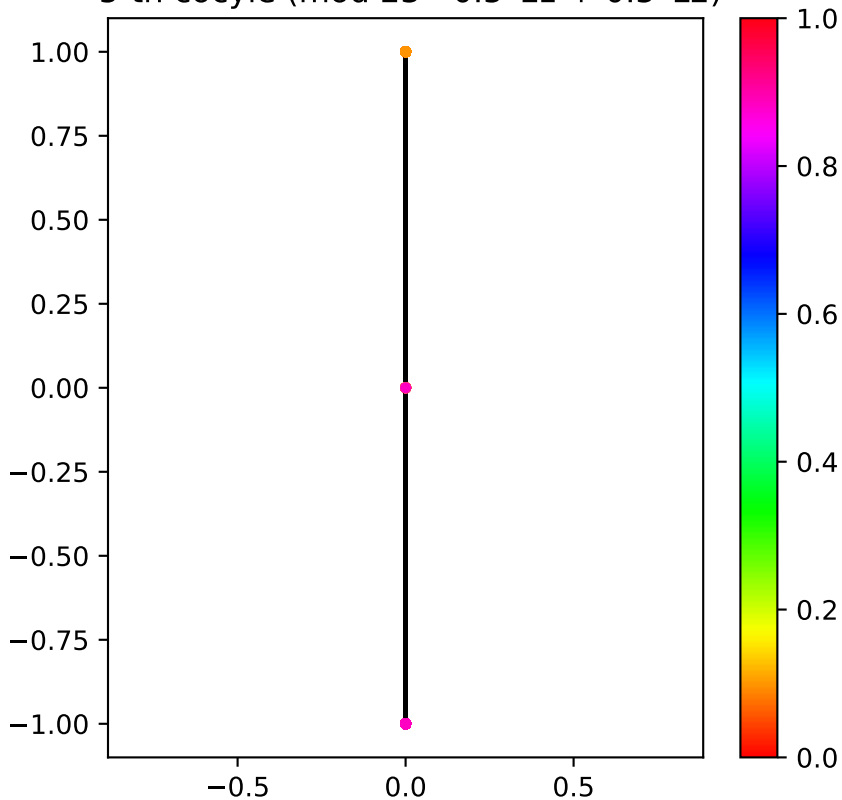
Correlation plot against distance,
4-th cocyle (mod 23 - $0.5*L1 + 0.5*L2$)



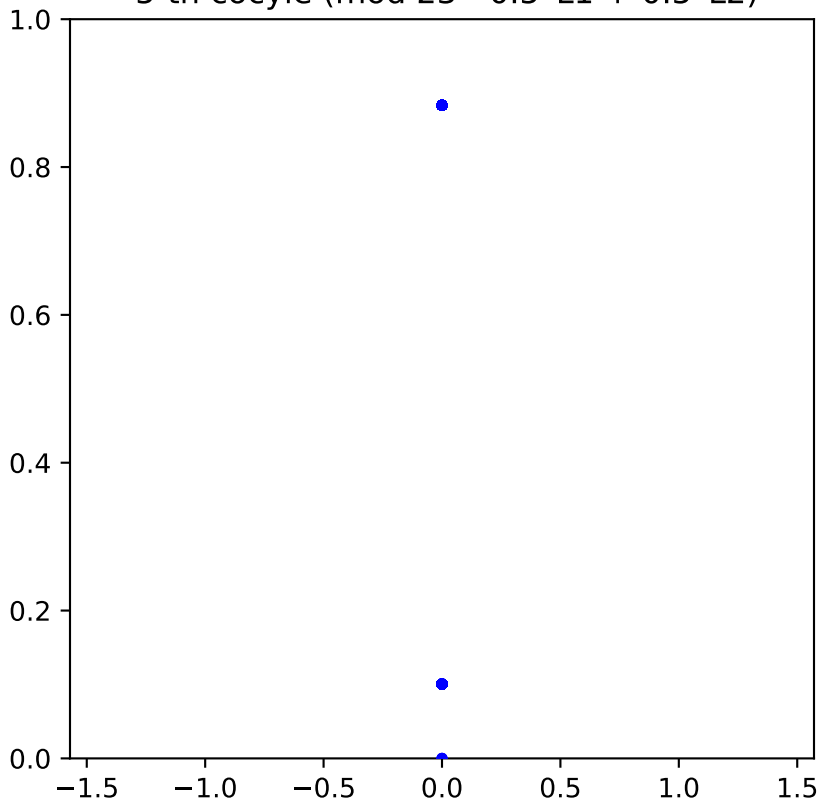
ular coordinates 5-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



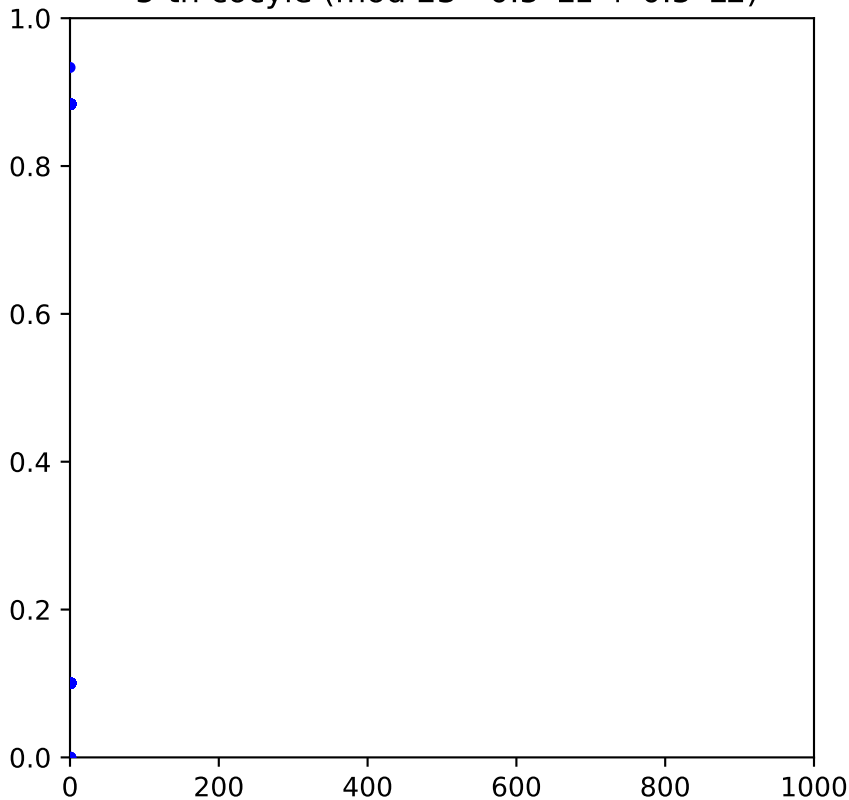
Circular coordinates/constant edges,
5-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



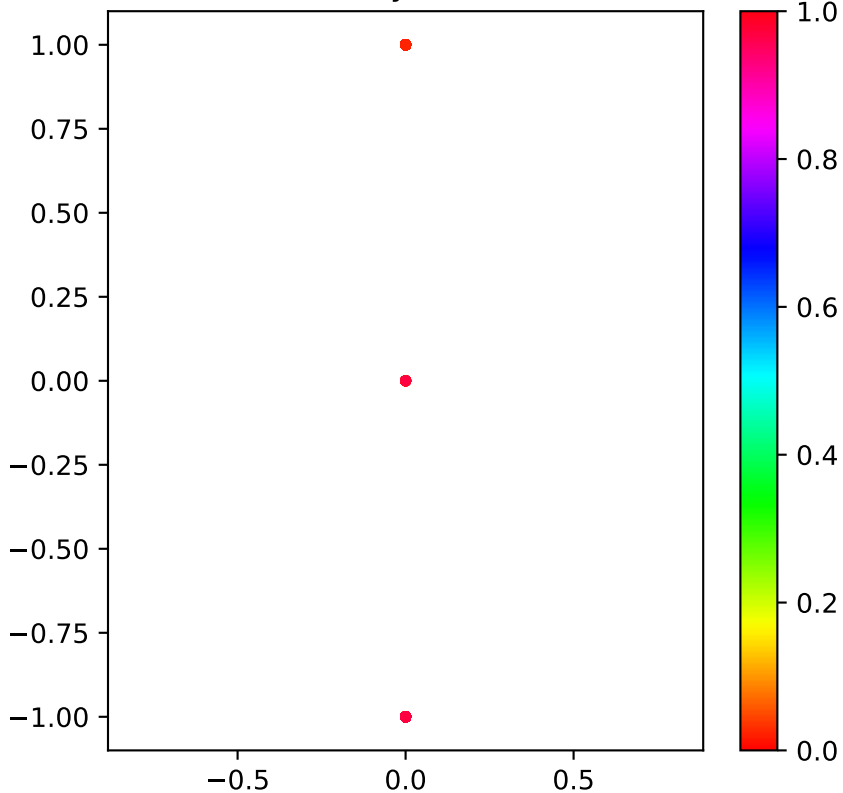
Correlation plot against angle,
5-th cocyle (mod 23 - $0.5 \cdot L1 + 0.5 \cdot L2$)



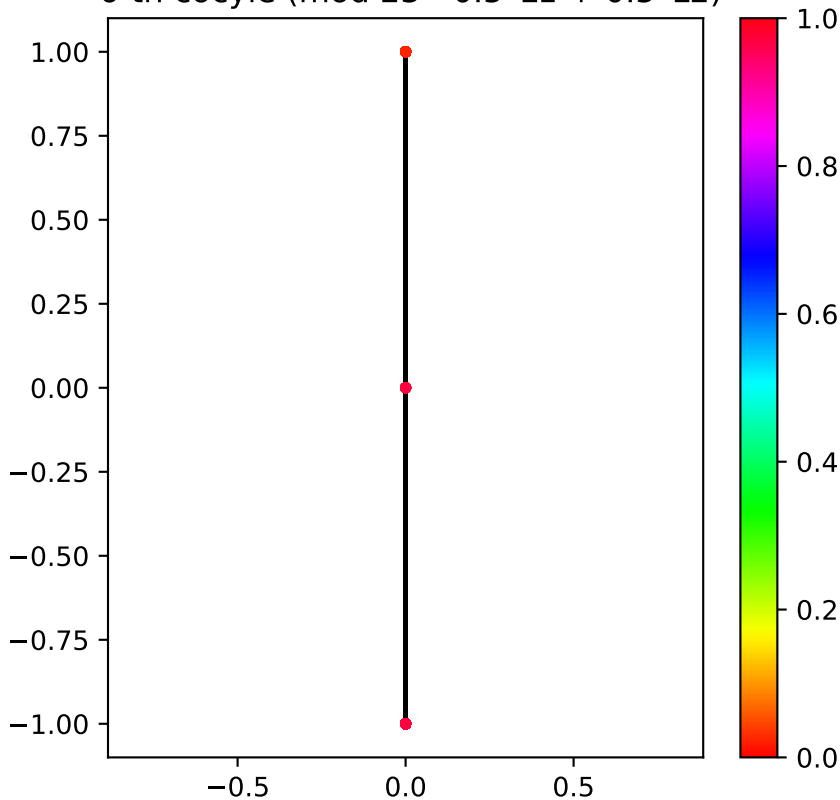
Correlation plot against distance,
5-th cocyle (mod 23 - $0.5 \cdot L1$ + $0.5 \cdot L2$)



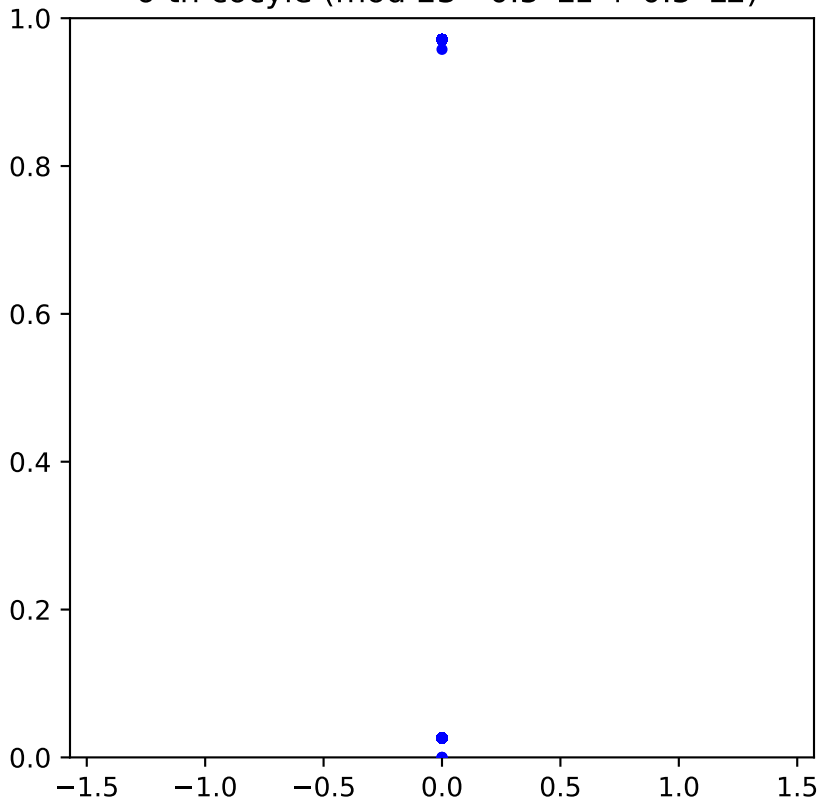
ular coordinates 6-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



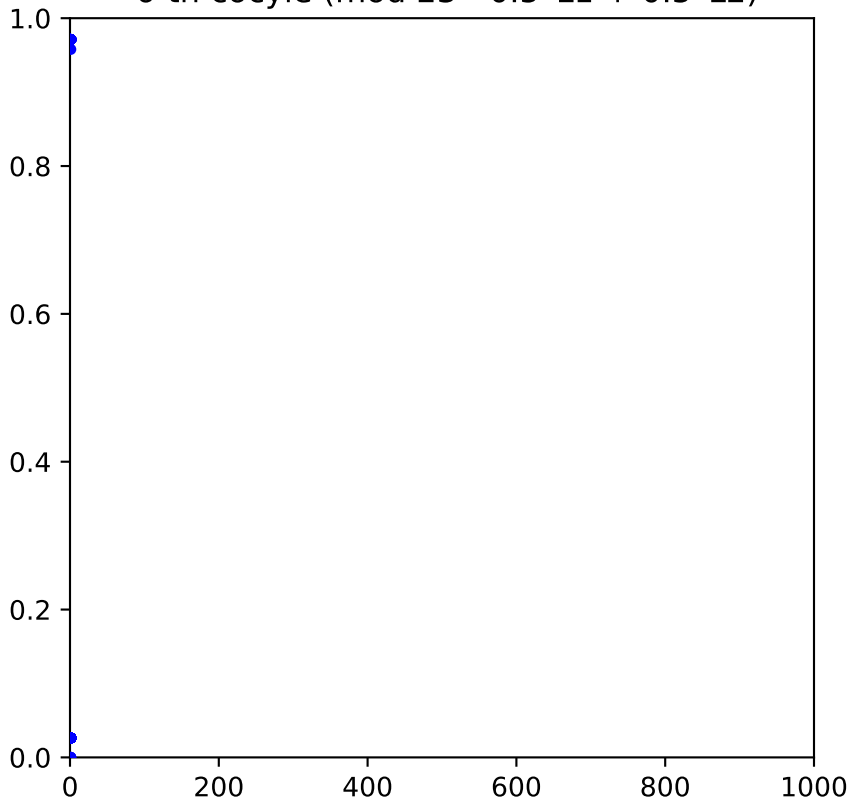
Circular coordinates/constant edges,
6-th cocyle (mod 23 - 0.5*L1 + 0.5*L2)



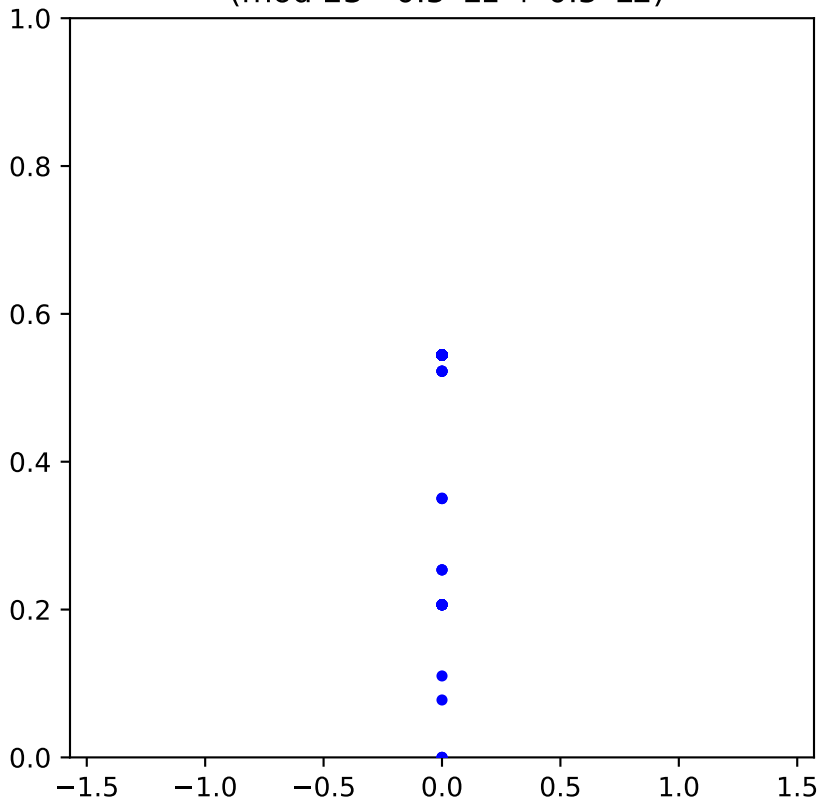
Correlation plot against angle,
6-th cocyle (mod 23 - $0.5*L1 + 0.5*L2$)



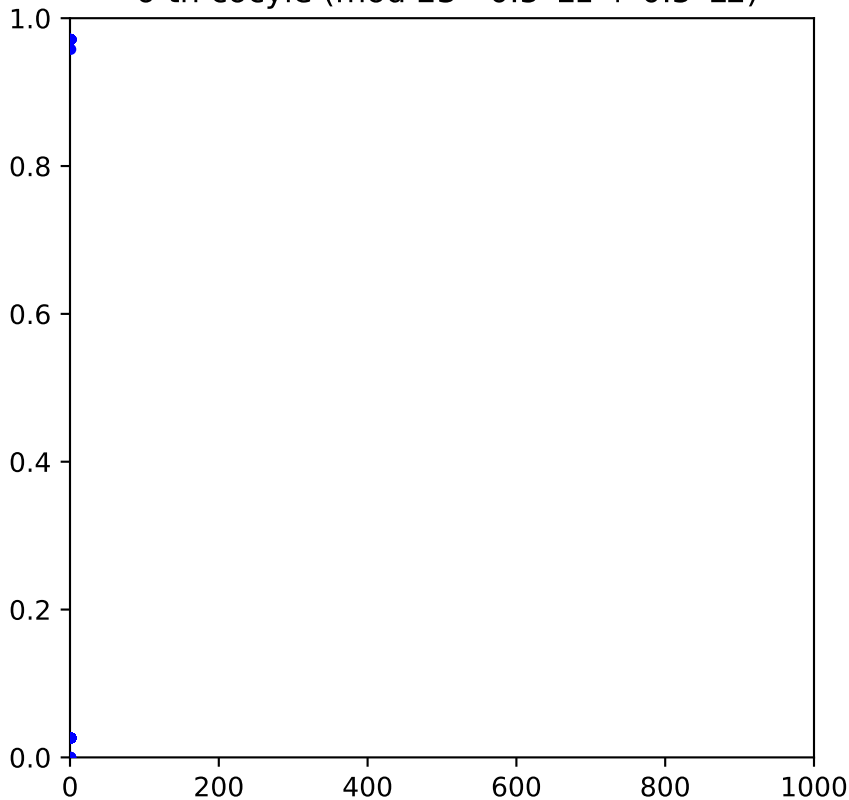
Correlation plot against distance,
6-th cocyle (mod 23 - $0.5*L1 + 0.5*L2$)

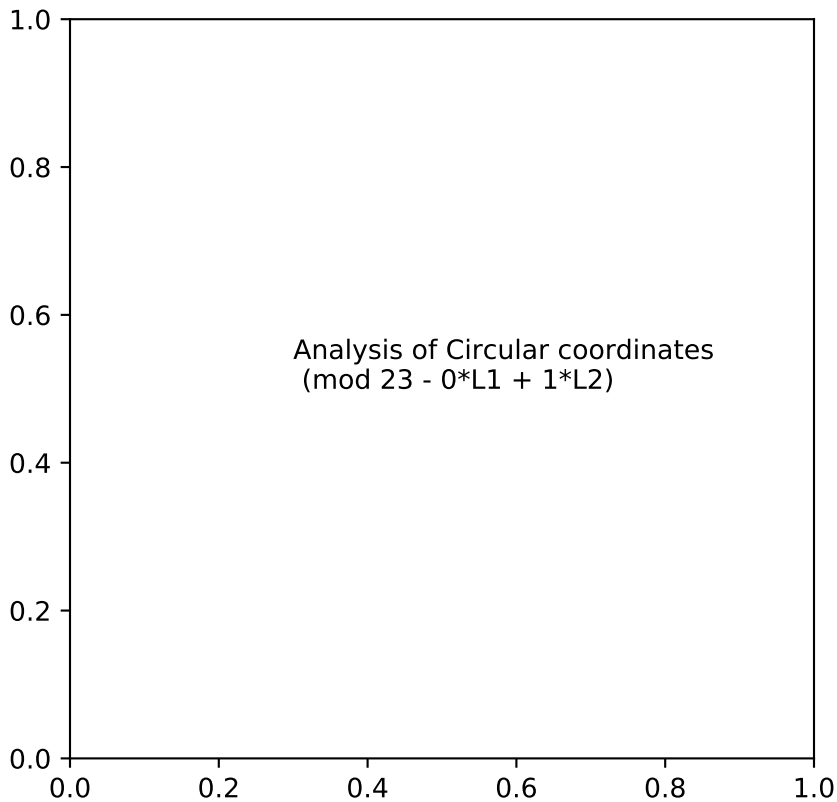


Correlation plot
(mod 23 - 0.5*L1 + 0.5*L2)

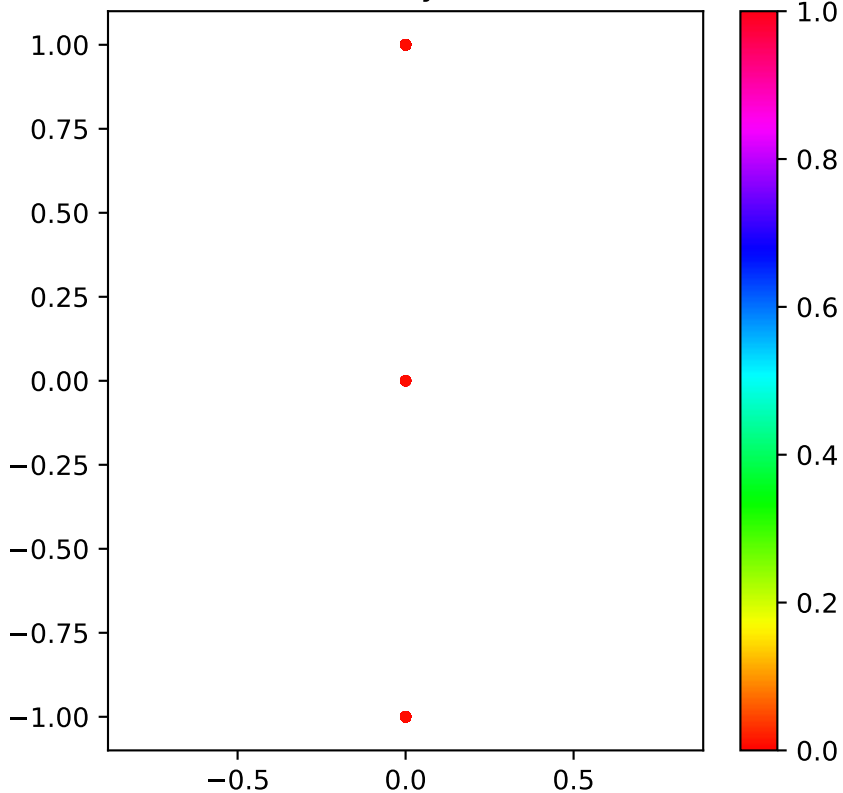


Correlation plot against distance,
6-th cocyle (mod 23 - $0.5*L1 + 0.5*L2$)

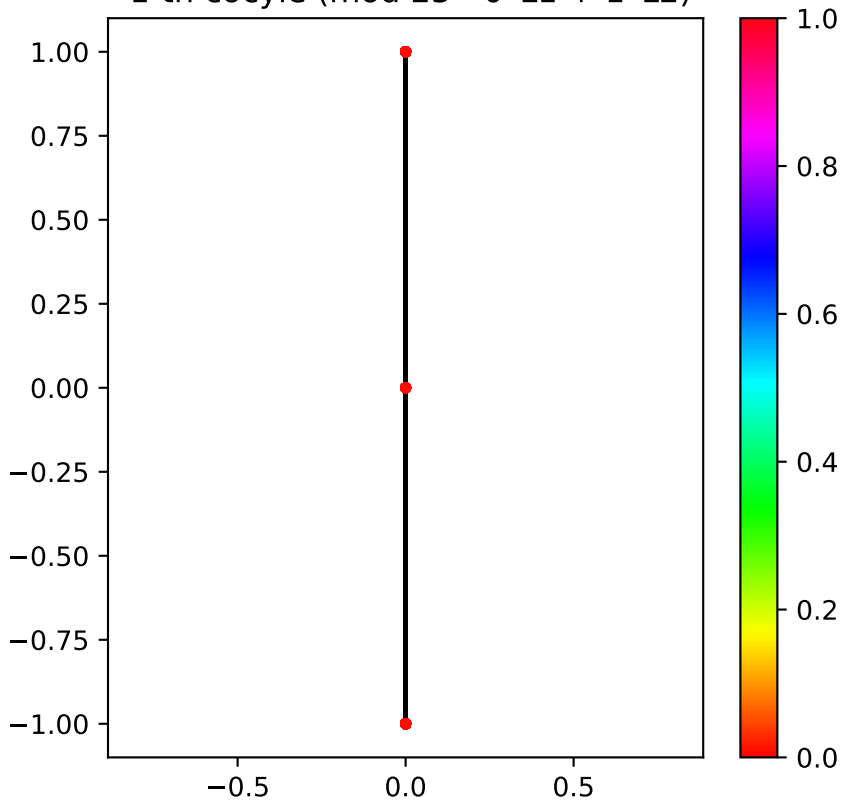




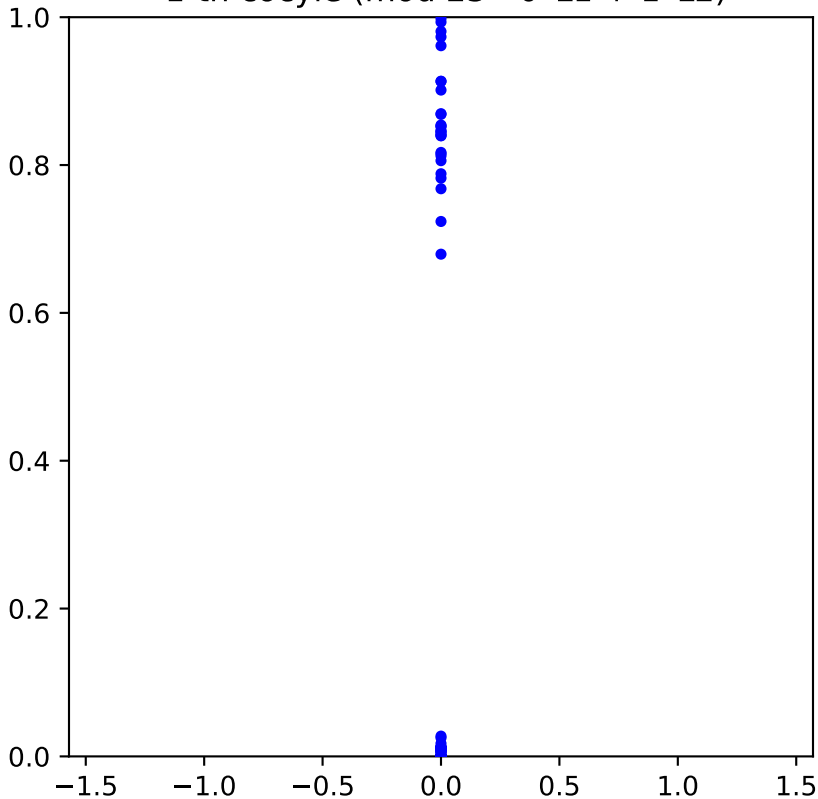
ircular coordinates 1-th cocyle (mod 23 - 0*L1 + 1*L2)



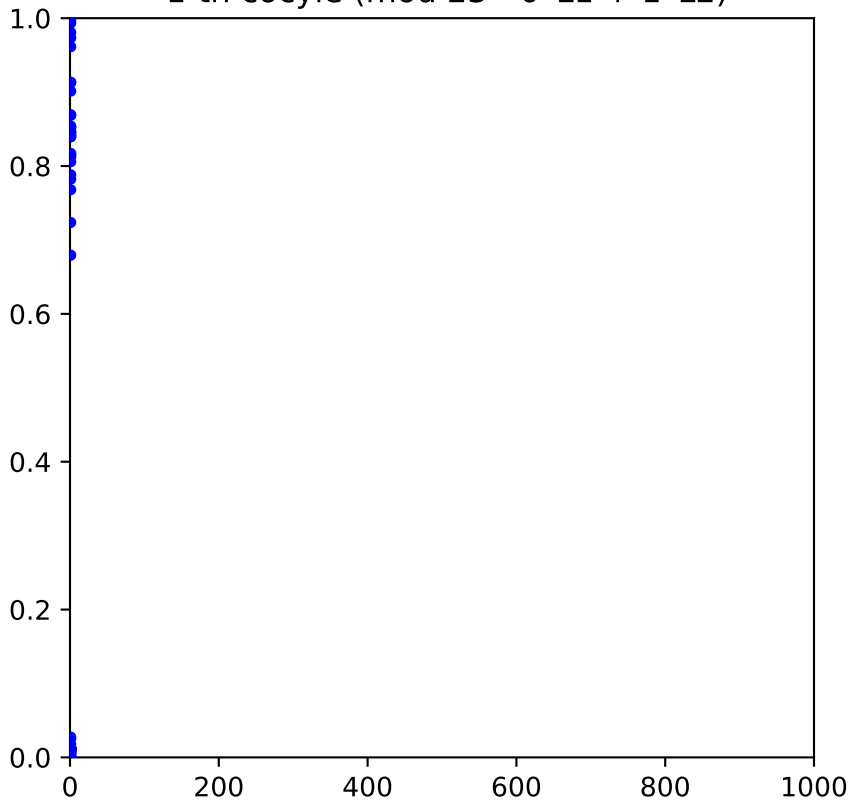
Circular coordinates/constant edges,
1-th cocyle (mod 23 - 0*L1 + 1*L2)



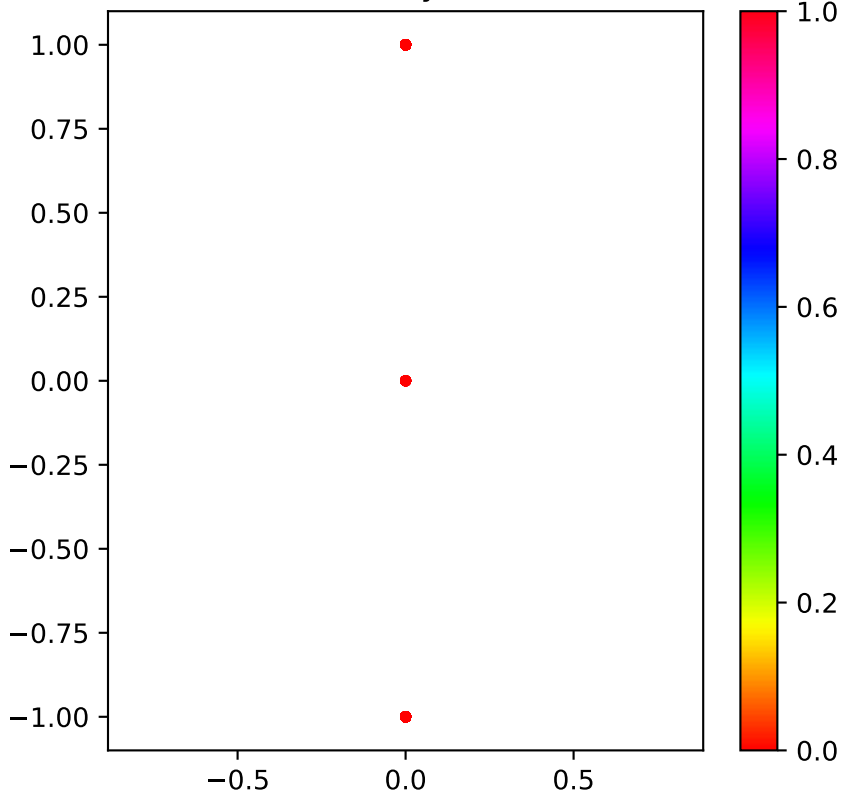
Correlation plot against angle,
1-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



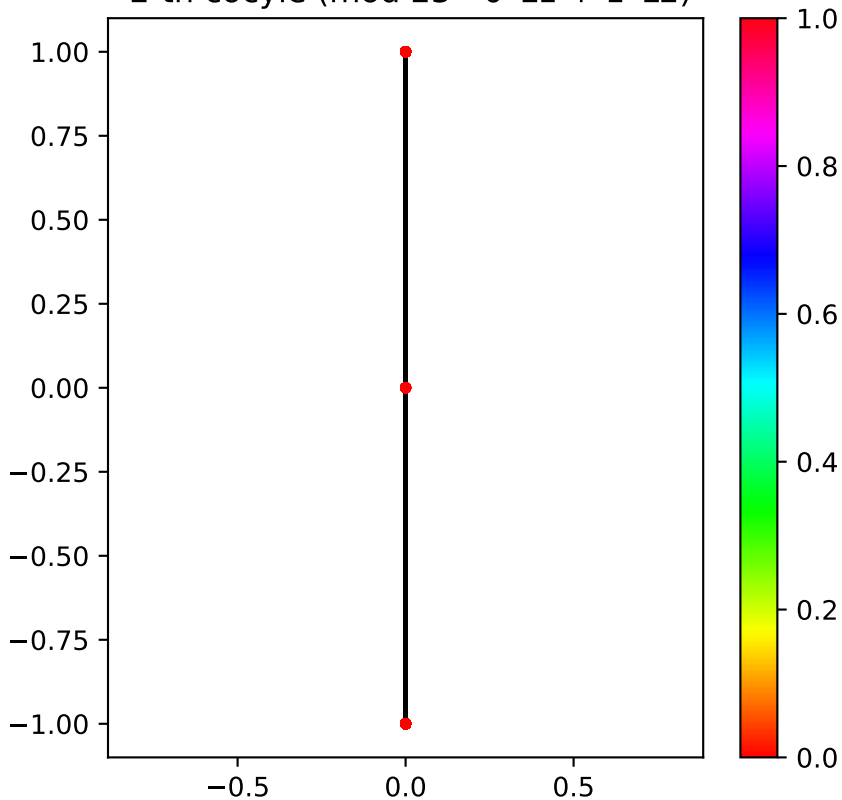
Correlation plot against distance,
1-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



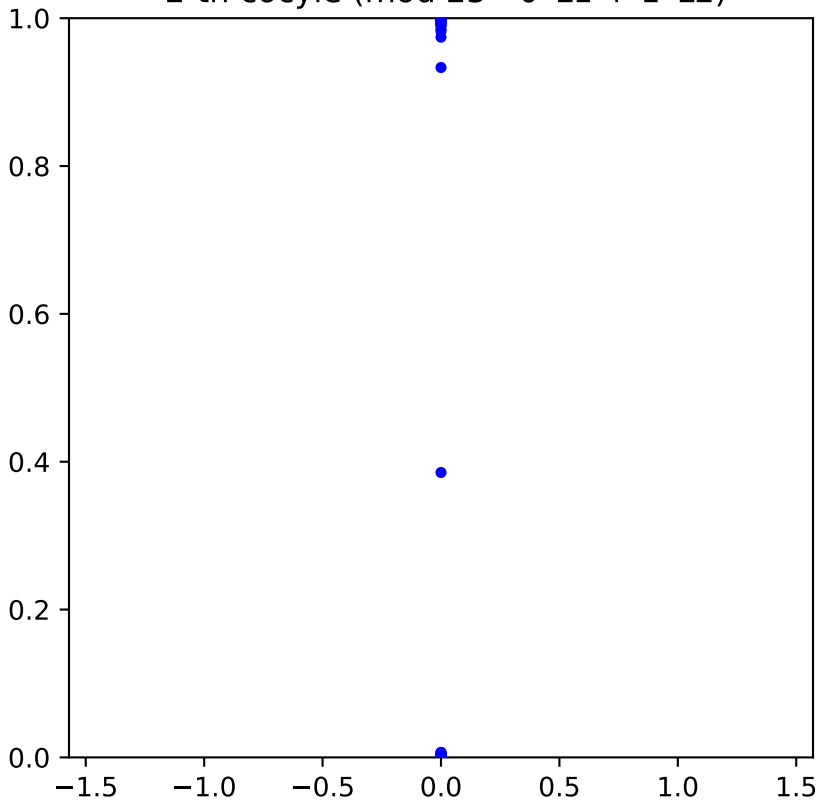
ircular coordinates 2-th cocyle (mod 23 - 0*L1 + 1*L2)



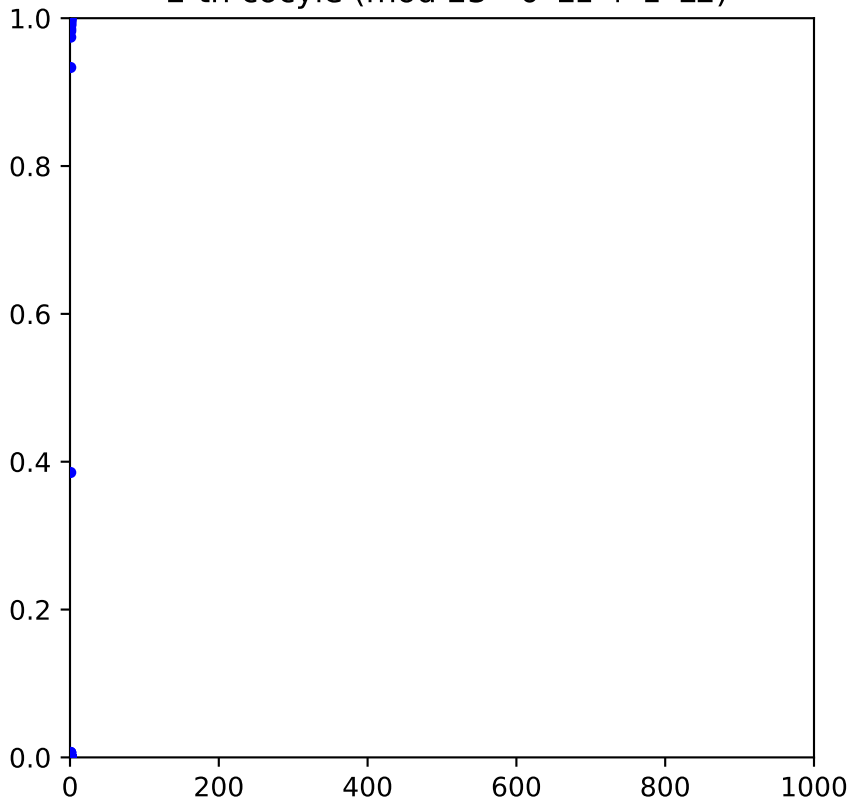
Circular coordinates/constant edges,
2-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



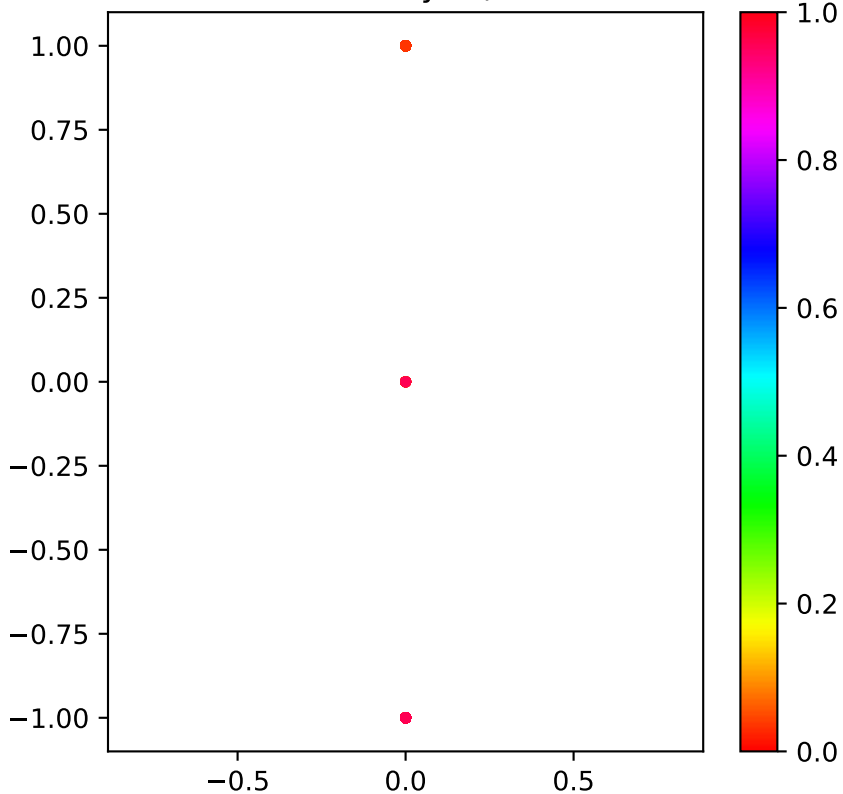
Correlation plot against angle,
2-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



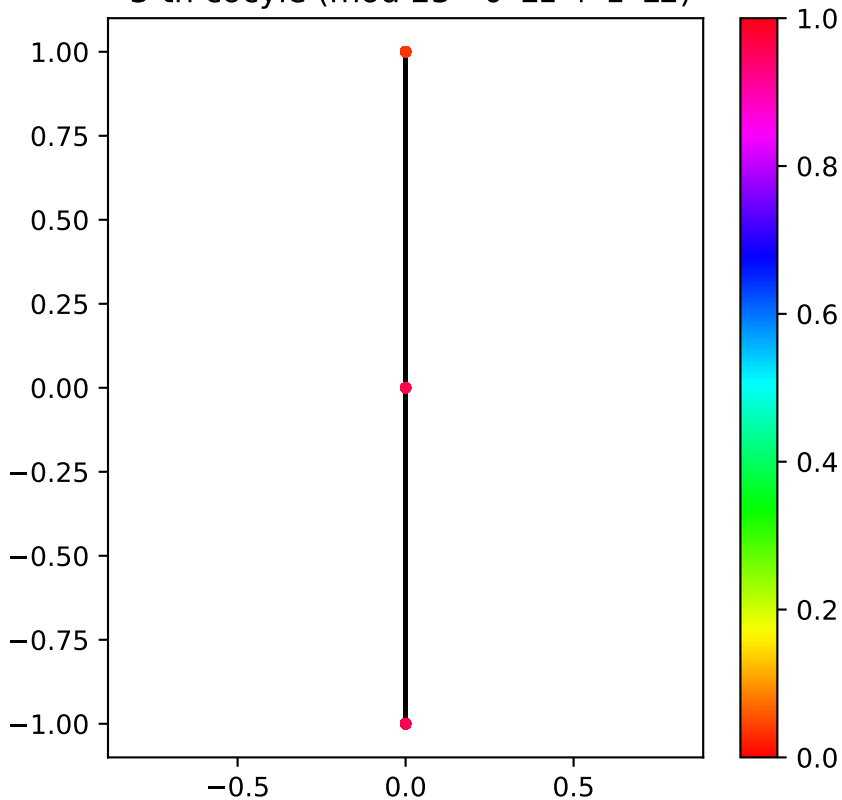
Correlation plot against distance,
2-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



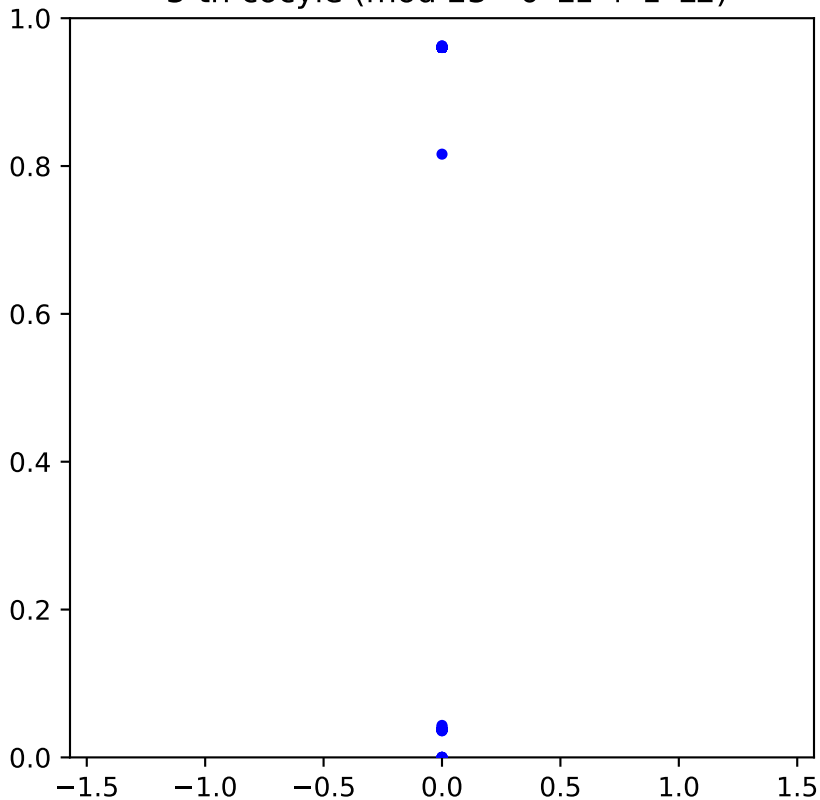
ircular coordinates 3-th cocyle (mod 23 - 0*L1 + 1*L2)



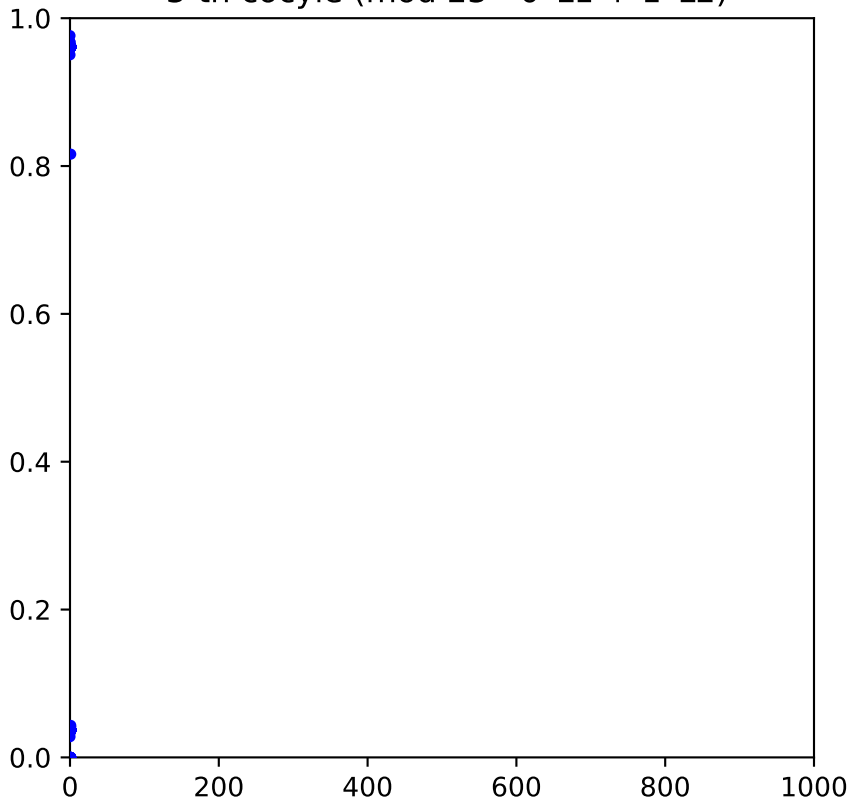
Circular coordinates/constant edges,
3-th cocyle (mod 23 - 0*L1 + 1*L2)



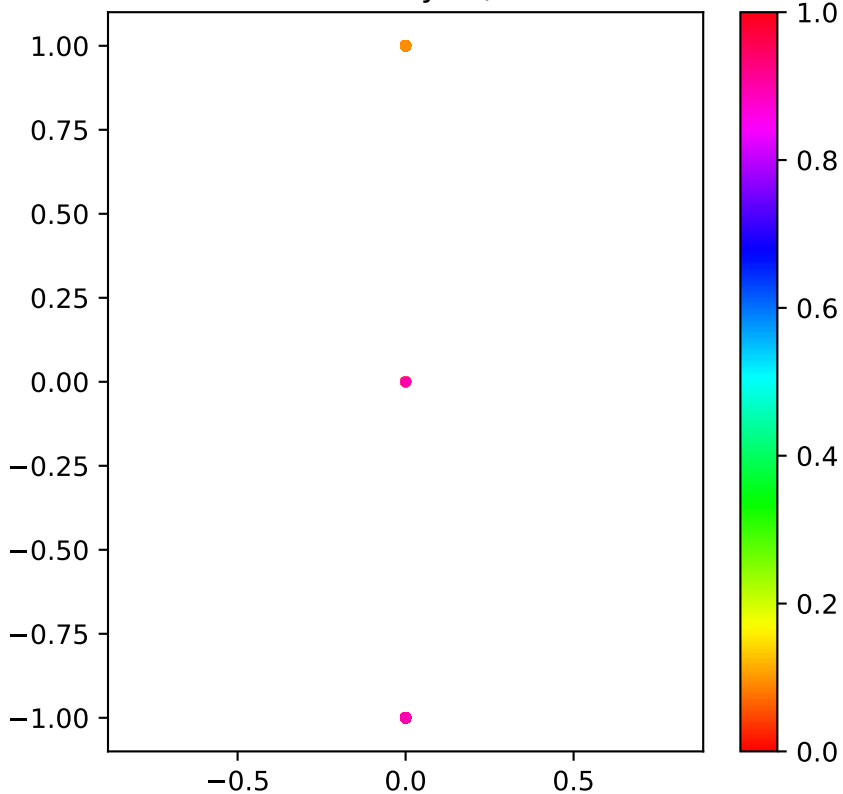
Correlation plot against angle,
3-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



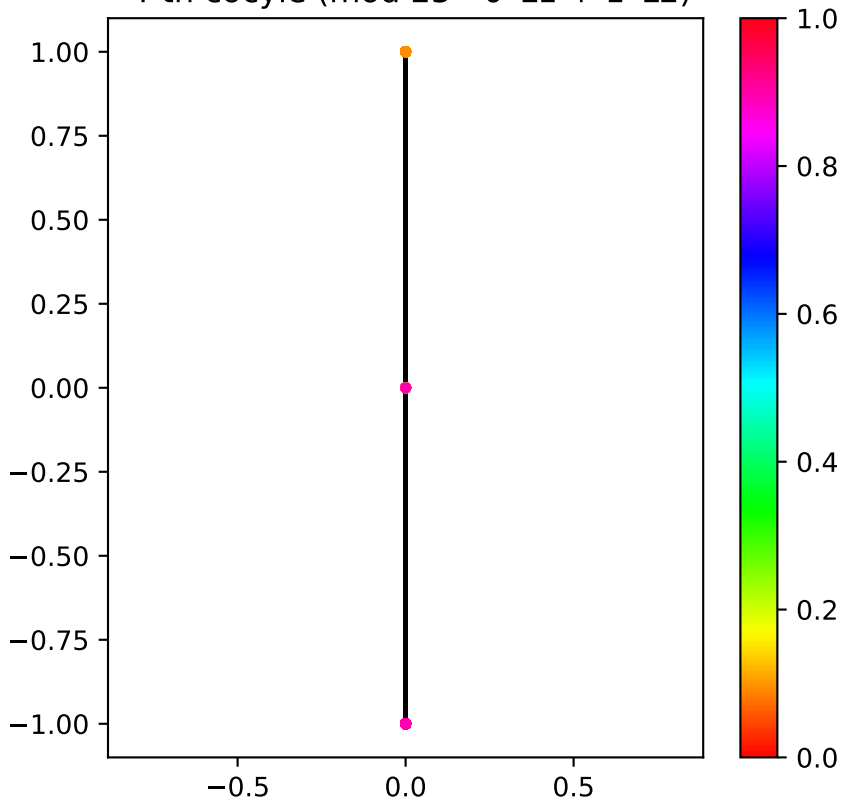
Correlation plot against distance,
3-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



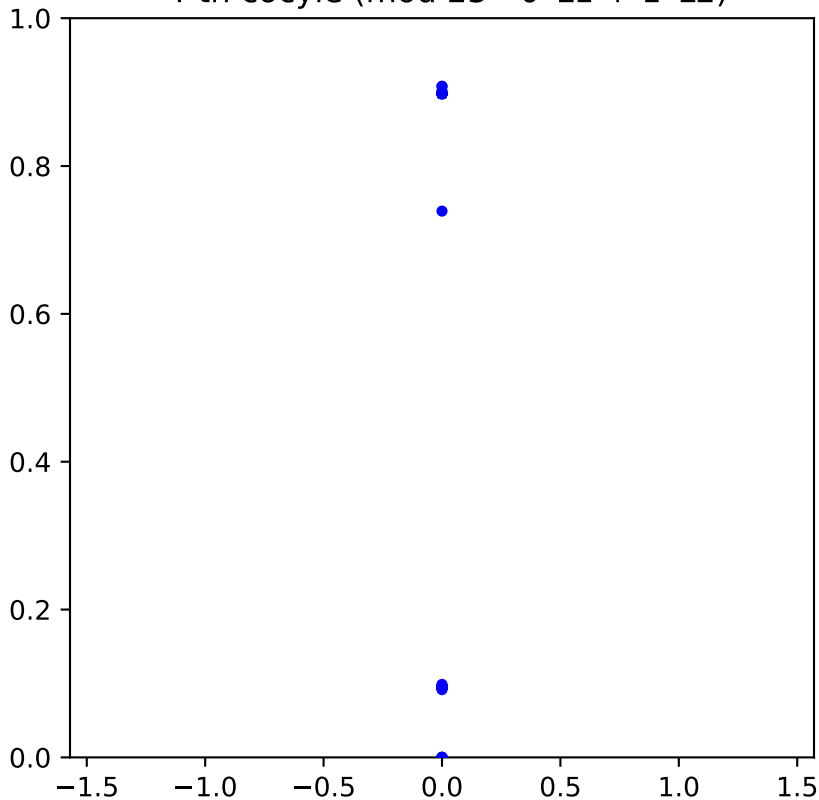
ircular coordinates 4-th cocyle (mod 23 - 0*L1 + 1*L2)



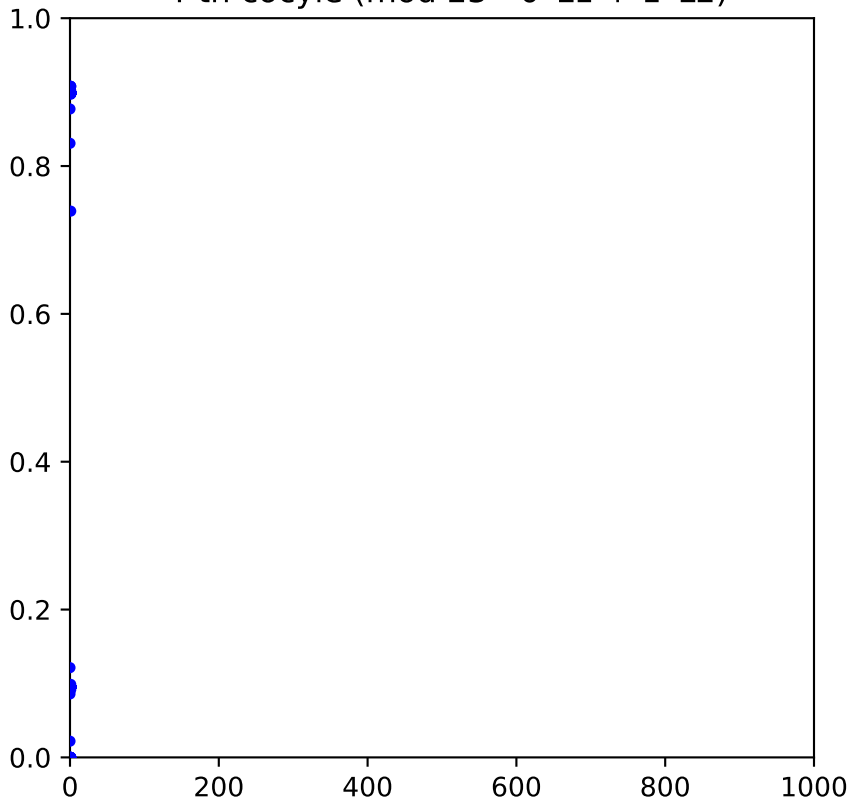
Circular coordinates/constant edges,
4-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



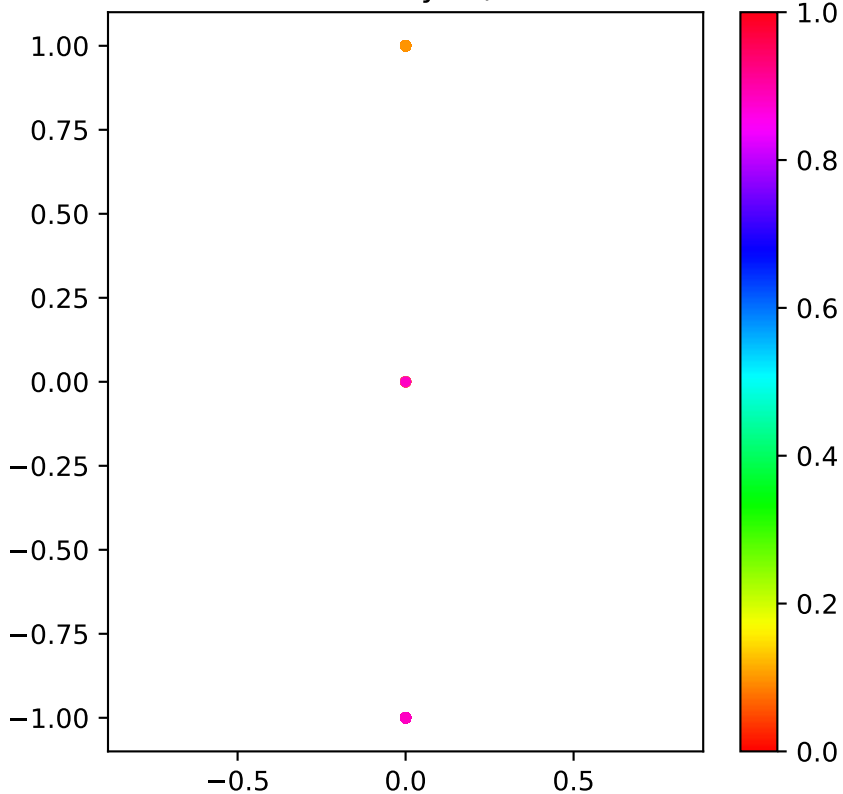
Correlation plot against angle,
4-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



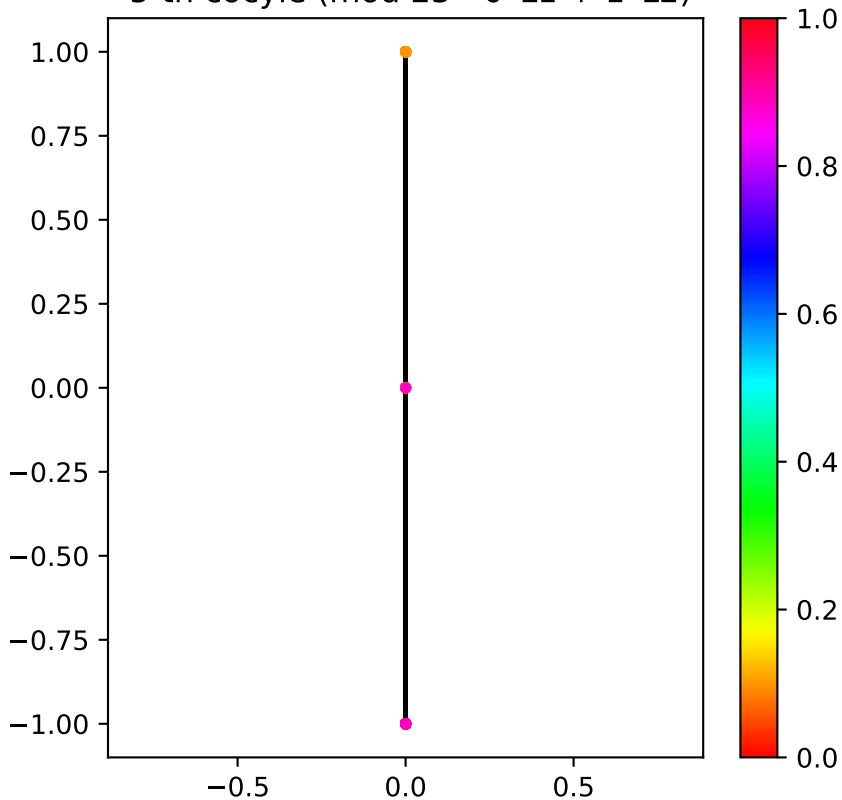
Correlation plot against distance,
4-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



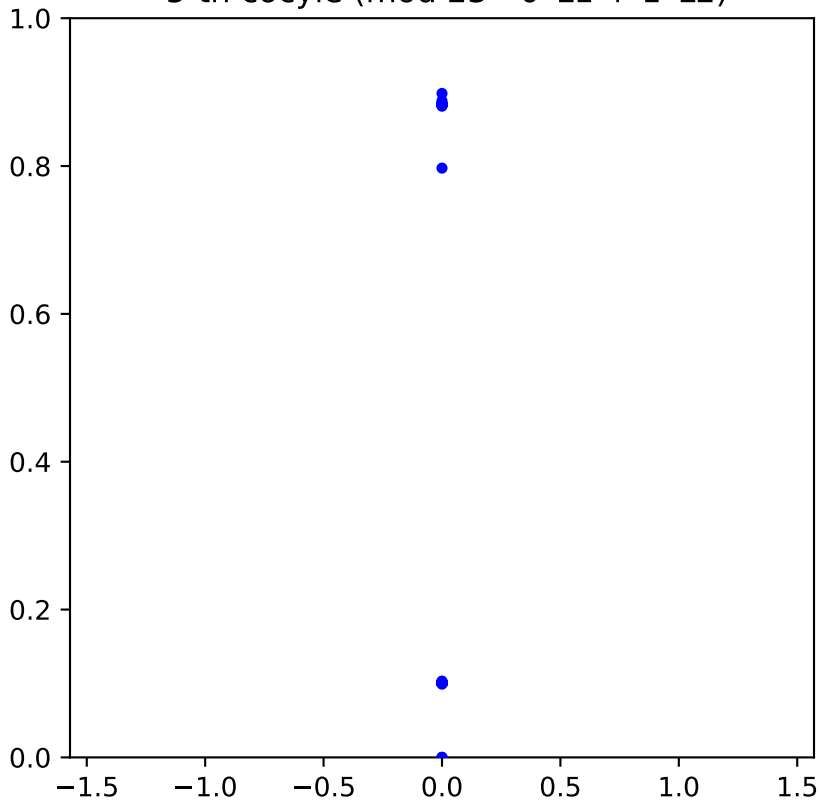
ircular coordinates 5-th cocyle (mod 23 - 0*L1 + 1*L2)



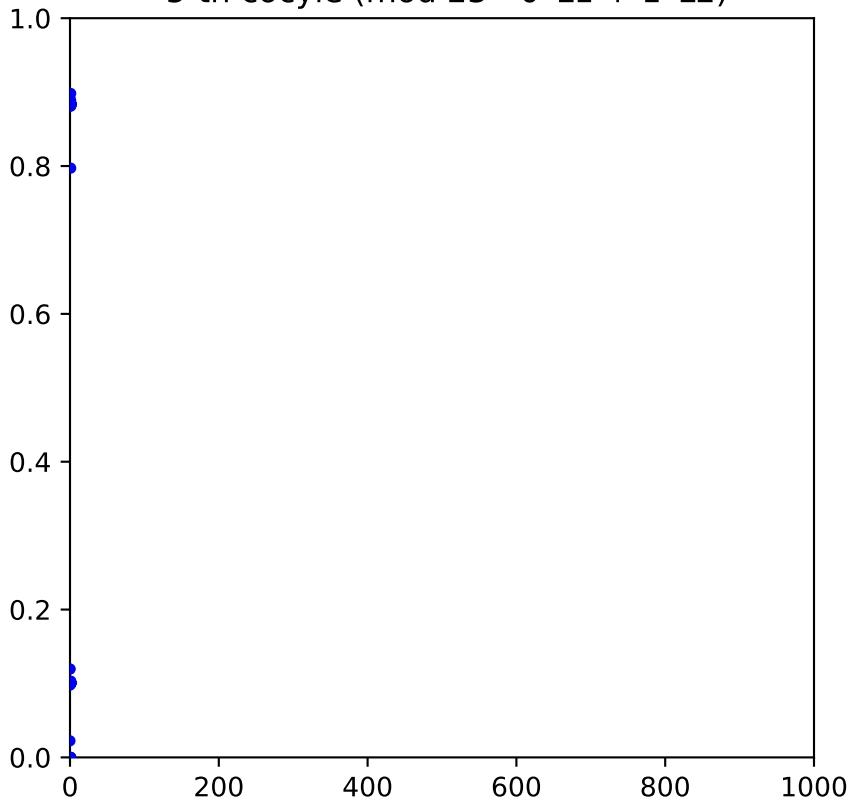
Circular coordinates/constant edges,
5-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



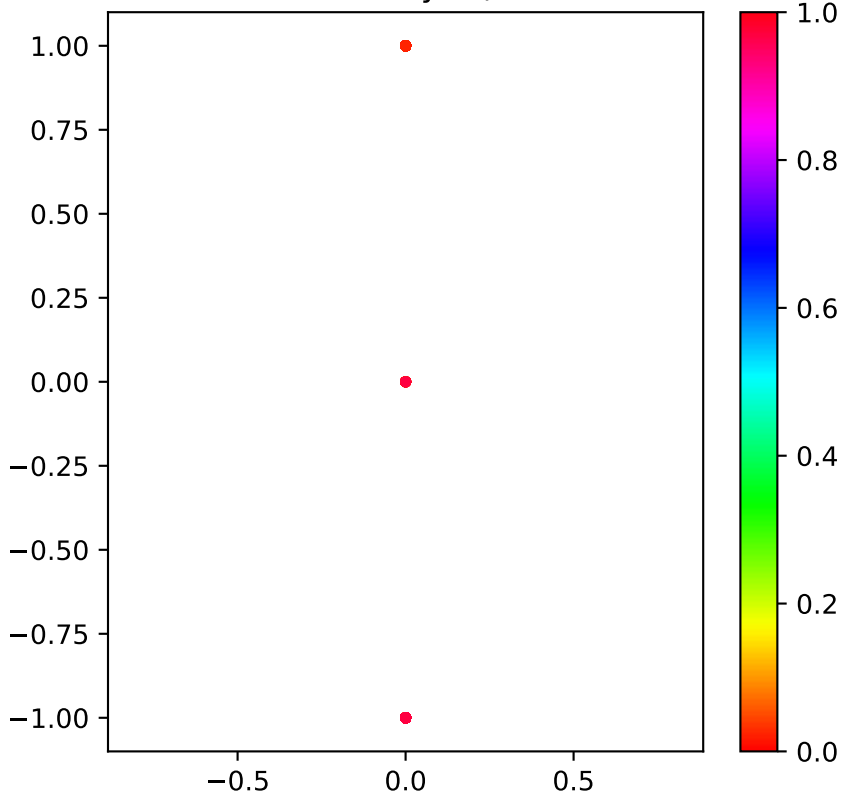
Correlation plot against angle,
5-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



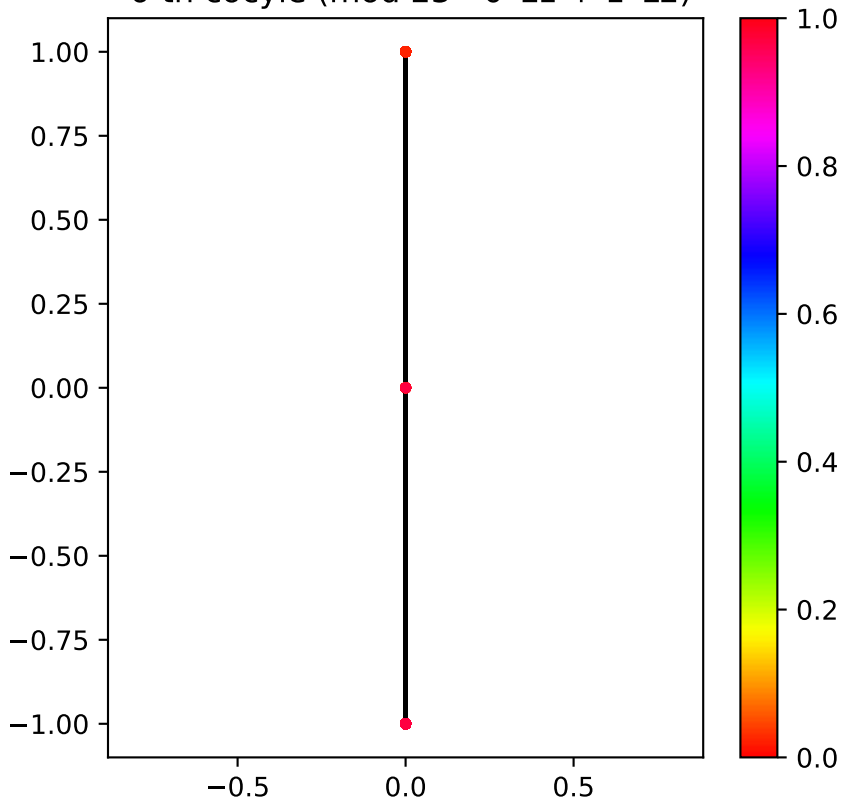
Correlation plot against distance,
5-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



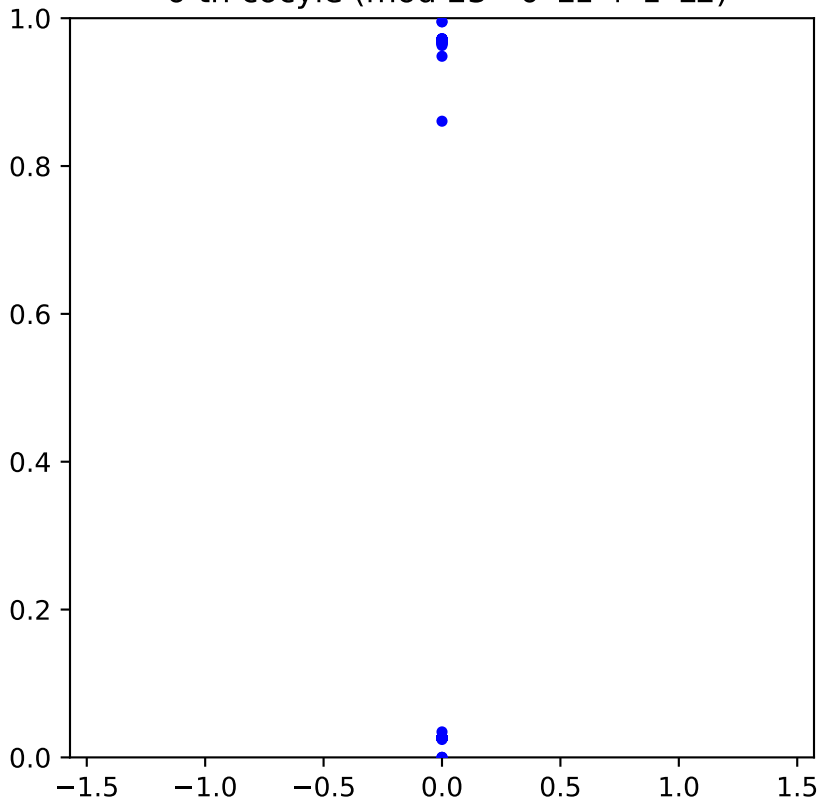
ircular coordinates 6-th cocyle (mod 23 - 0*L1 + 1*L2)



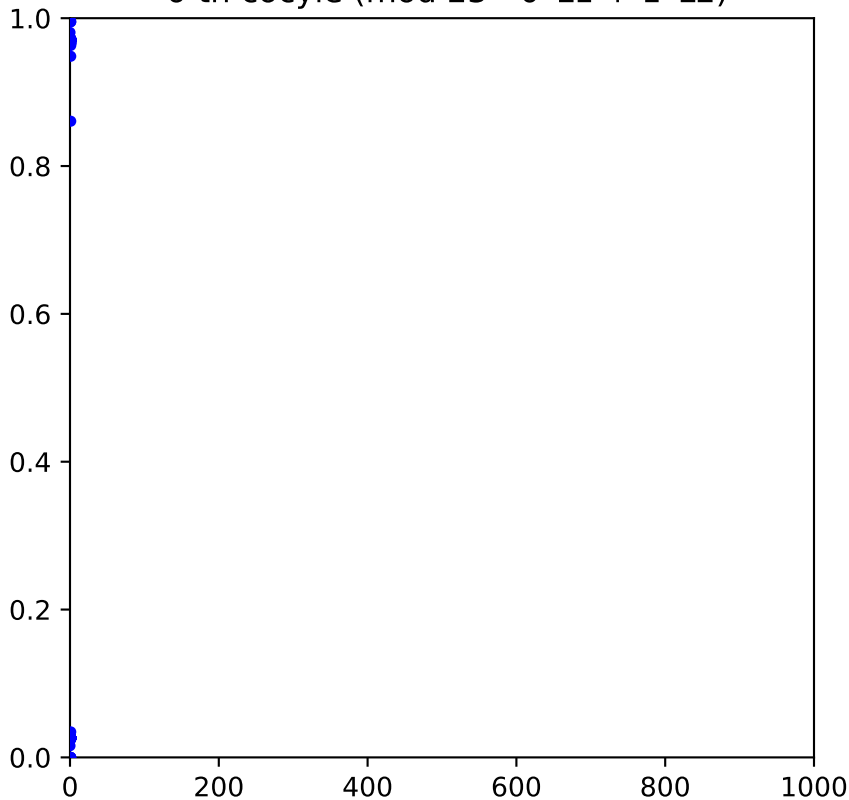
Circular coordinates/constant edges,
6-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



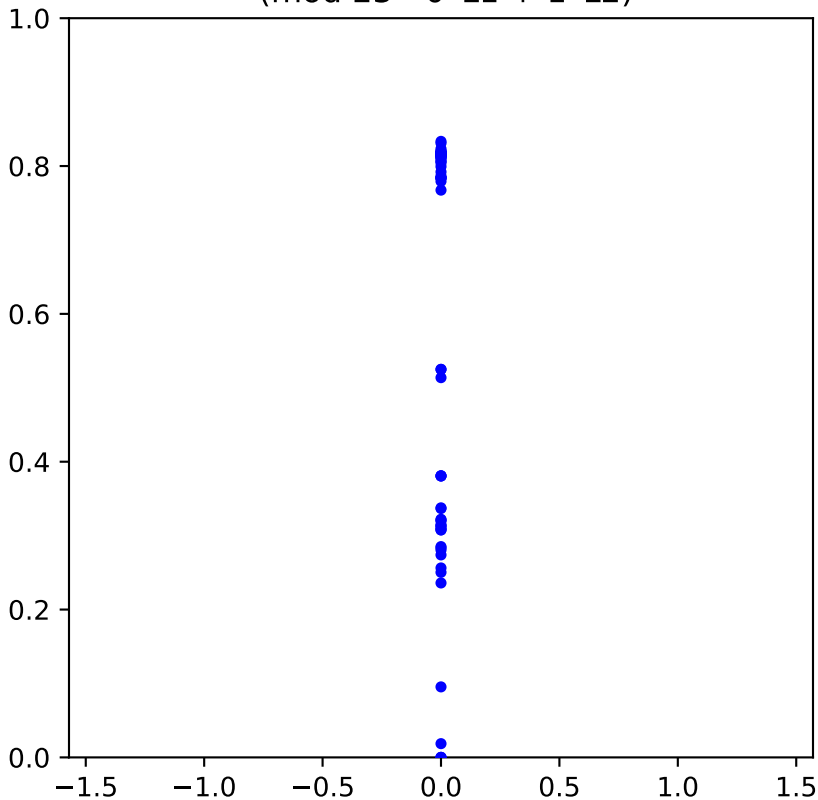
Correlation plot against angle,
6-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



Correlation plot against distance,
6-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)



Correlation plot
(mod 23 - 0*L1 + 1*L2)



Correlation plot against distance,
6-th cocyle (mod 23 - $0 \cdot L1 + 1 \cdot L2$)

