1. **Remove the possibility of a grid cell being a square grid cell. We can do two things:**
   1. Calculate HGS and SGS and consider only those neurons with HGS > 0 and SGS < 0.
   2. Follow the methodology shown by Grieves et al. 2021 and do a grid score shuffle test along with HGS and SGS.
2. **We have to distinguish between place and grid cells clearly.** Currently, we classify neurons from a single hidden layer as a grid or place cell based on their HGS scores and spatial information content.
   1. Place cells: spatial information > 0.3 bits/spike and HGS < 0
   2. Grid cells: HGS > 0

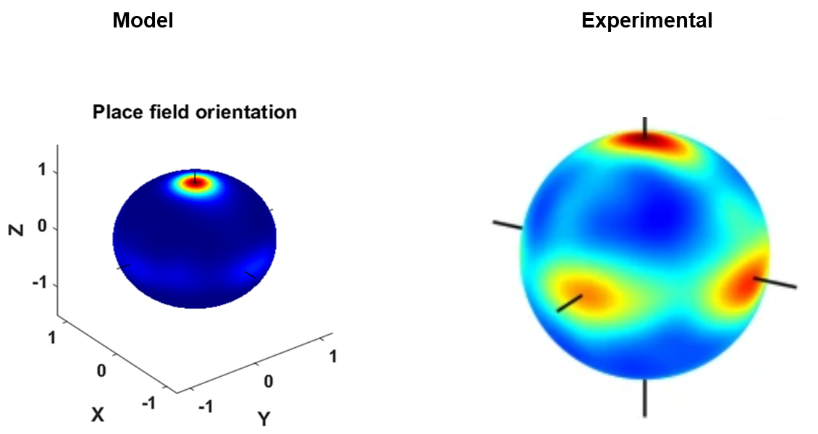
The reviewer has an issue that the place cell might have an underlying grid cell pattern because of our chosen “beta” value. What should we do here?

1. **Analyse the Grid cells in lattice mazes (should we do this?)**
   1. If so, we must show irregular firing fields that do not follow HCP and FCC firing patterns.
2. **For classifying place cells, the reviewer asked us to do the random shuffle procedure described by Markus et al. for spatial information content.**
3. **Change the PI with Cos and Sin concatenation to remove the regular firing.**
4. **Remove the HD resolution section** and explain why we have taken a low resolution of pitch angle. This reference can be given:

Page, Hector JI, and Kate J. Jeffery. "Landmark-based updating of the head direction system by retrosplenial cortex: a computational model." *Frontiers in Cellular Neuroscience* 12 (2018): 191.

1. **Remove diagonal movements in lattice mazes and repeat all the analysis, especially the orientation in the aligned lattice maze.**

The deviation we are getting in the model. We need to fix this.

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1. **Change the pegboard trajectory where the agent should move along the heading direction with more probability.** 
   1. Here, we can keep a 75% probability to move in the heading direction
   2. And 25% probability to move in other possible directions.