CALCULATE: Nullcline intersection

INPUT: Size of stimulus

INPUT: Connection probability ($p$)

CREATE: Connectivity matrix. Each connection exists with probability $p$

SOLVE: Coupled FitzHugh-Nagumo equations (closed boundary)

What proportion of cells are excited?

If 100 repeats

OUTPUT: Proportion of cells excited (100 repetitions)

If fewer than 100 repeats

Increment size of stimulus

Increment connection probability