Quiz 7.3: Nullcliens for Constant Input

Nullclines for Constant Input

0 points possible (ungraded)
Consider AdEx dynamical system:

$$\tau \frac{du}{dt} = -(u - u_{rest}) + \Delta exp\left(\frac{u-\vartheta}{\Delta}\right) - Rw + RI(t)$$

$$\tau_w \frac{dw}{dt} = a(u - u_{rest}) - w$$

While in the second equation $a = 0$ and the last term exists only during reset. What happens if input switches from $I = 0$ to $I > 0$? (Vertical axis indicates w and horizontal axis indicates u.)

- [ ] u-nullcline moves horizontally
- [x] u-nullcline moves vertically
- [ ] w-nullcline moves horizontally
- [ ] w-nullcline moves vertically

Submit You have used 1 of 1 attempt

✔ Correct

Discussion

Topic: Week 7 / Quiz 7.3: Nullcliens for Constant Input

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