

The result of the toss of a coin

$$\theta(\tau) = \omega\tau = \frac{2\omega v}{g}$$

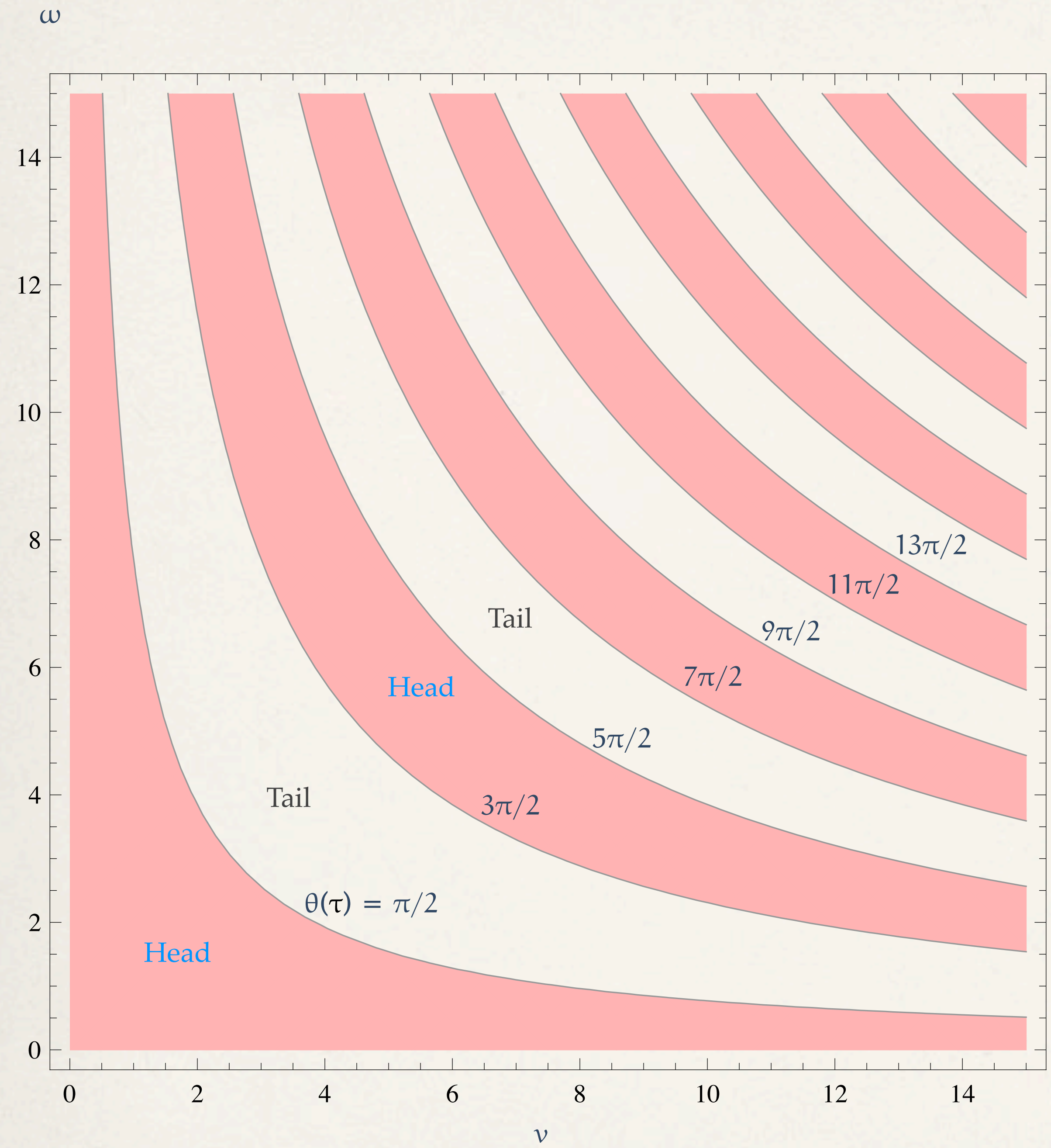
The result of the toss of a coin

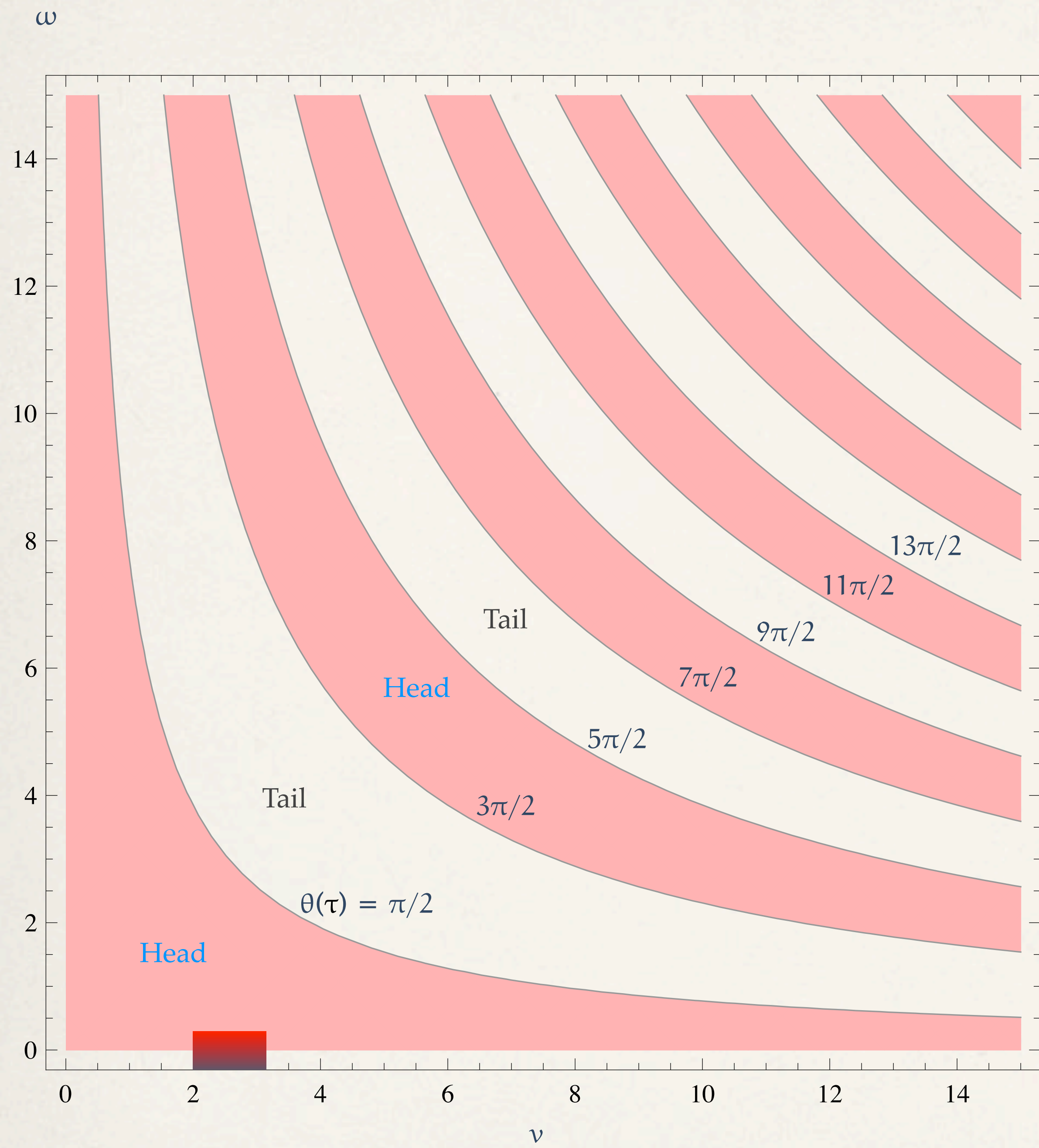
$$\theta(\tau) = \omega\tau = \frac{2\omega v}{g}$$

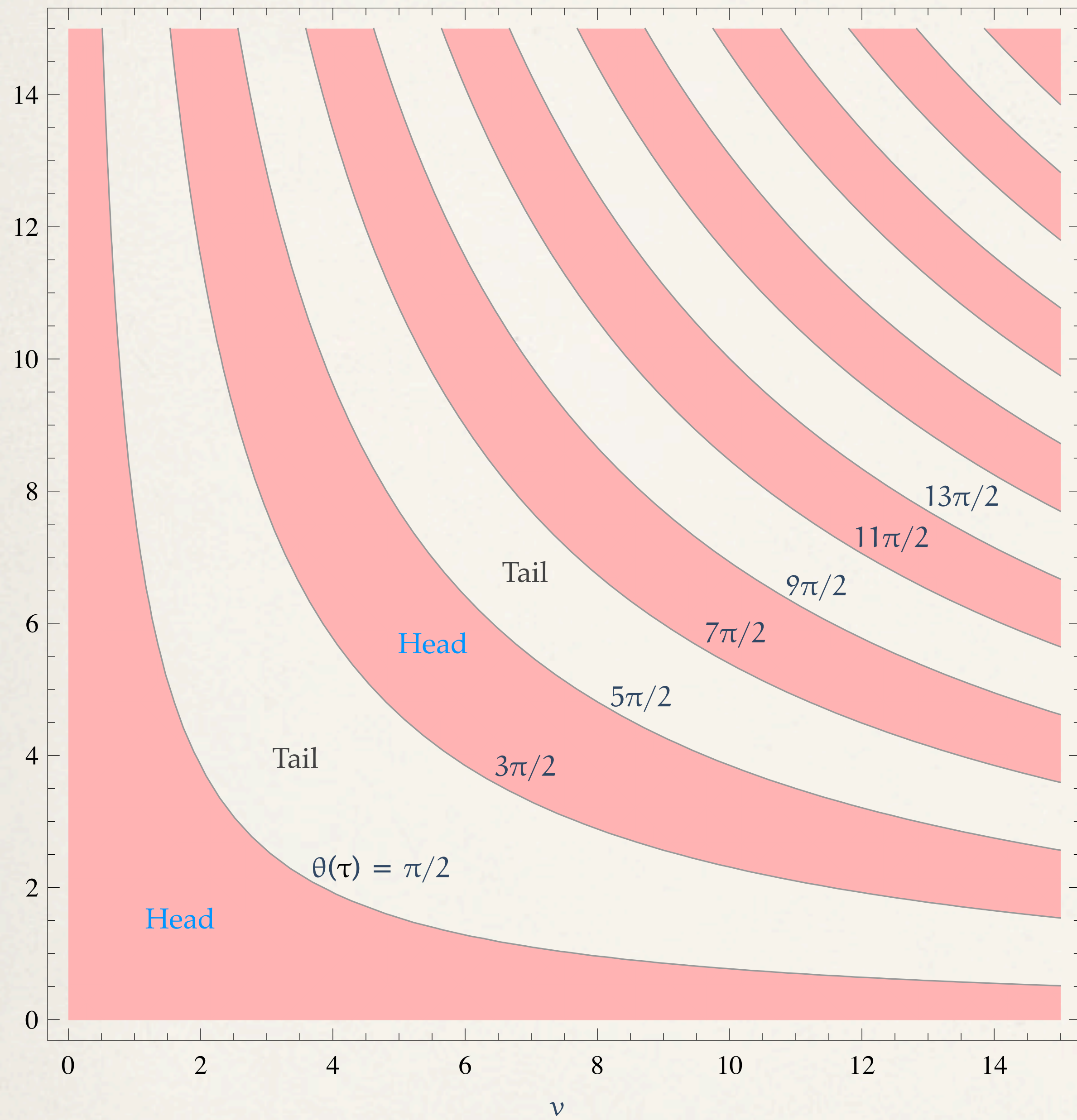
Regions governed by the equations:

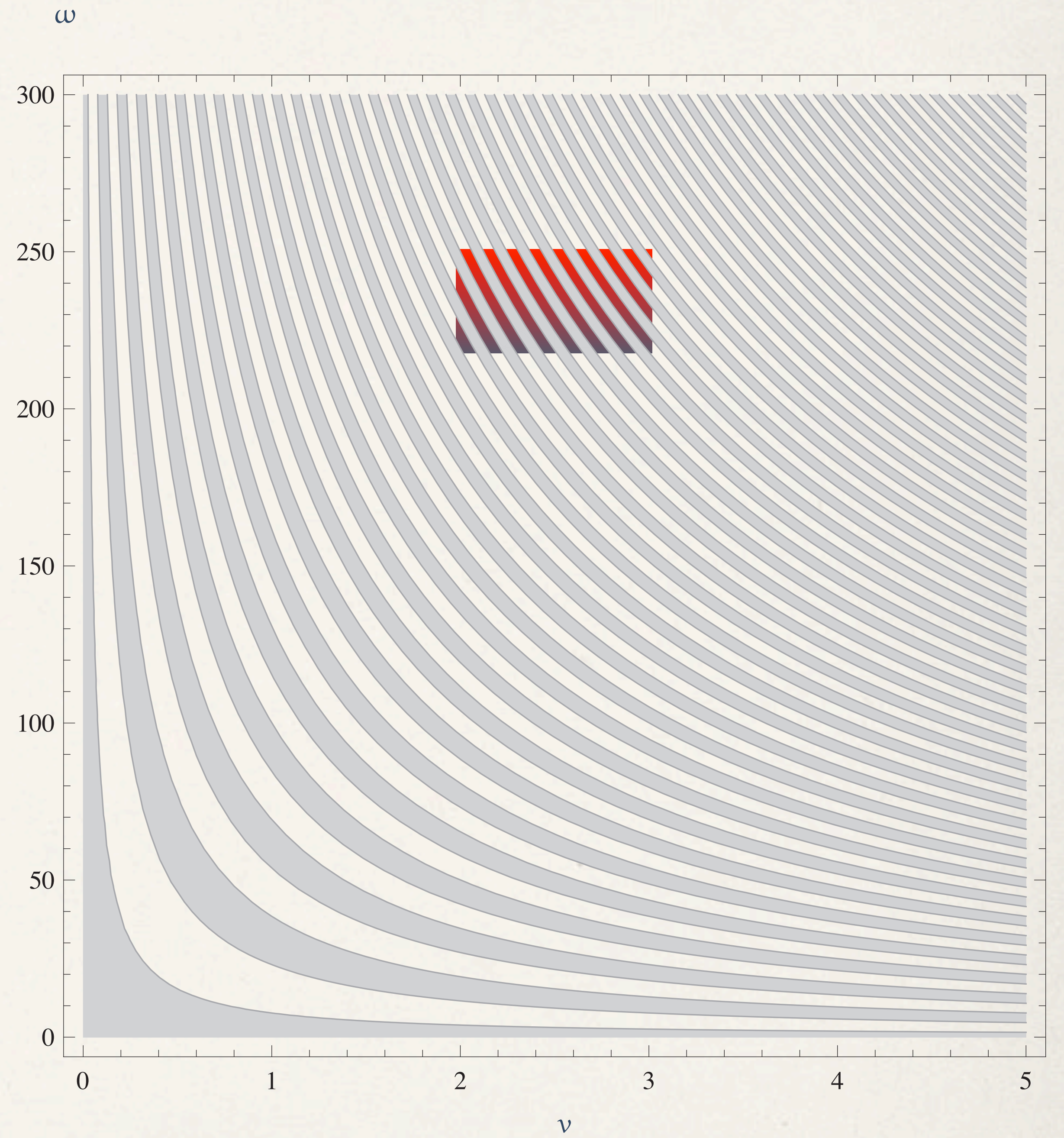
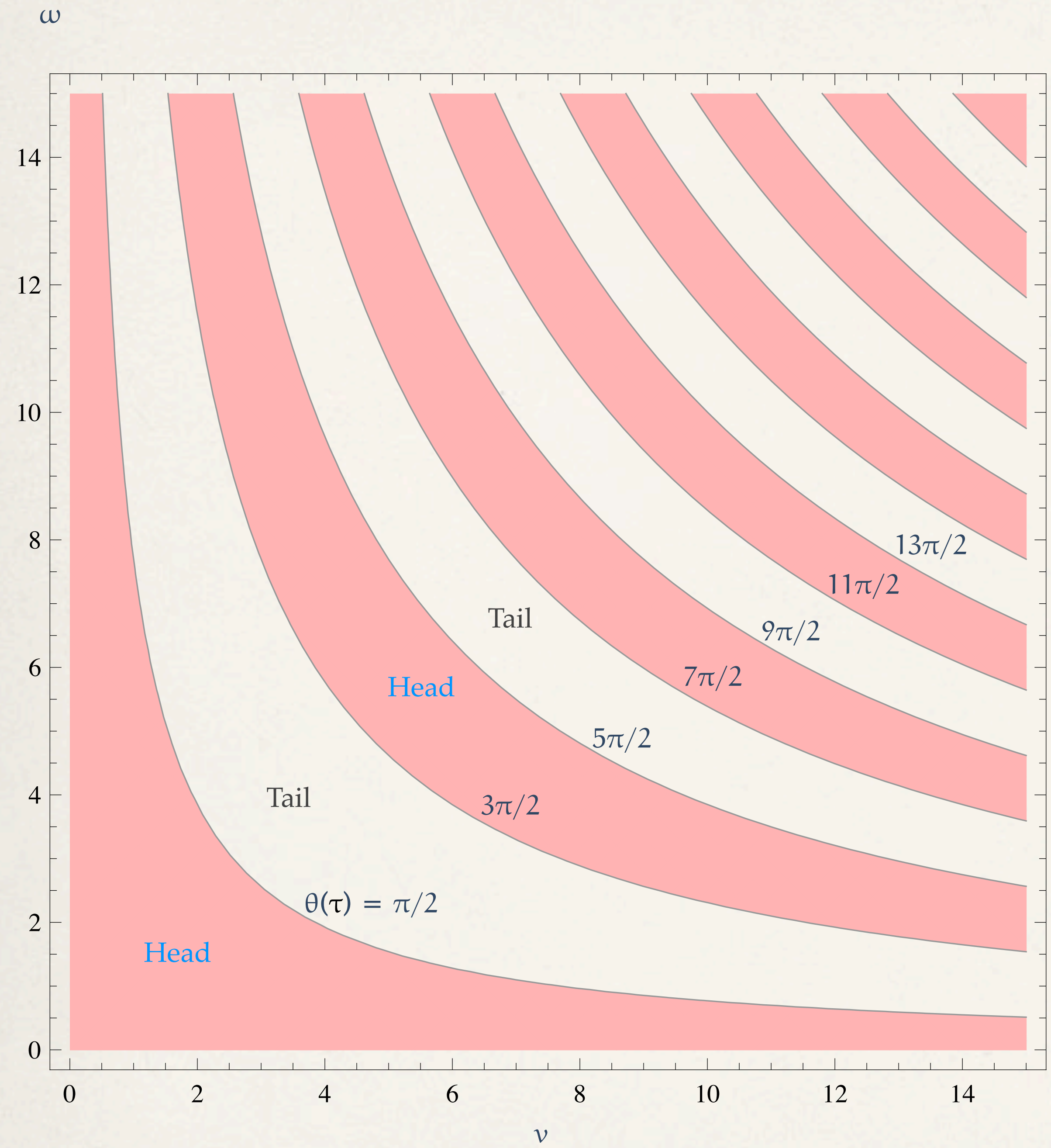
$$\theta(\tau) = \frac{\pi}{2}, \frac{3\pi}{2}, \frac{5\pi}{2}, \frac{7\pi}{2}, \dots$$

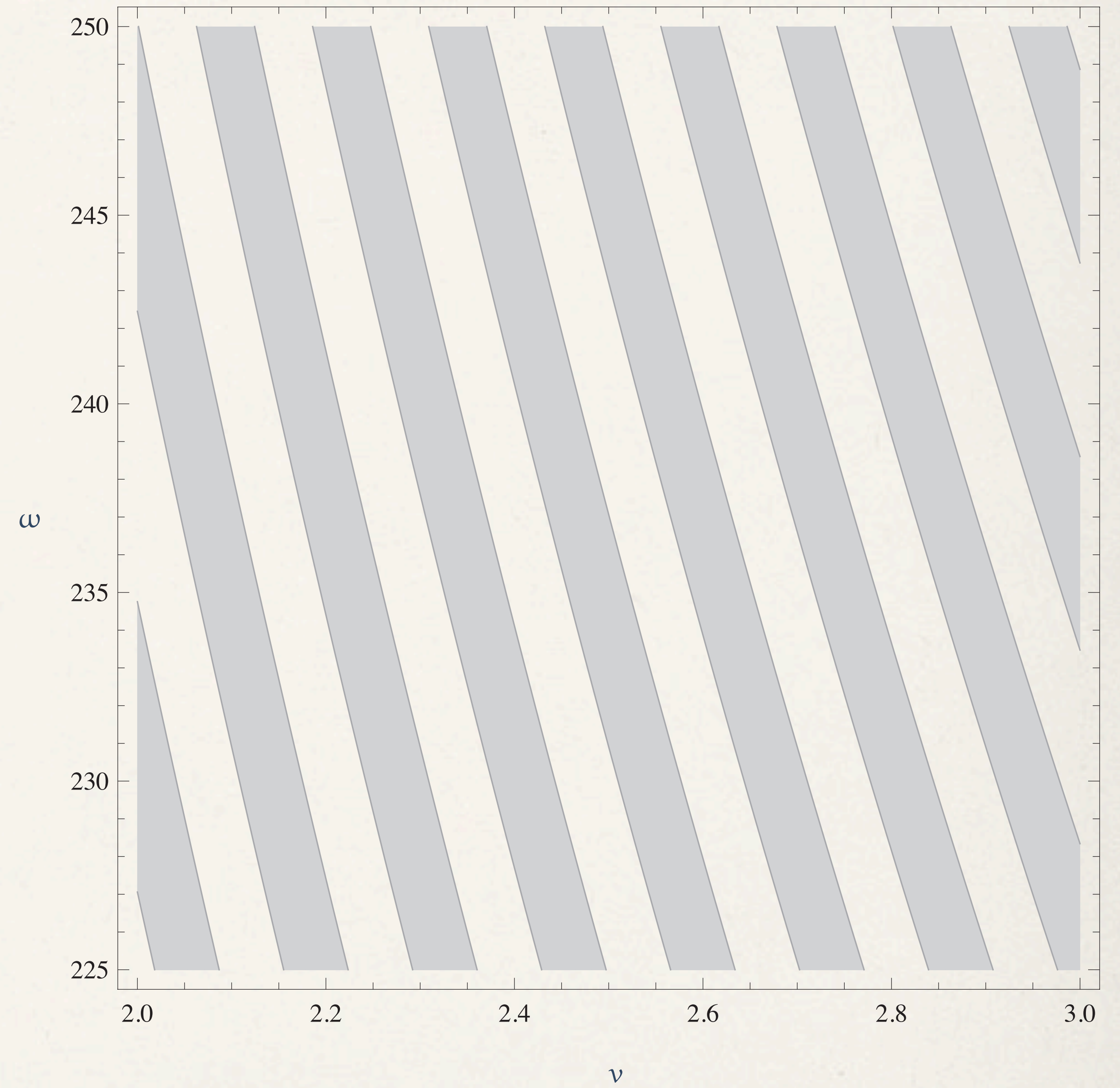
$$\omega v = \frac{\pi g}{4}, \frac{3\pi g}{4}, \frac{5\pi g}{4}, \frac{7\pi g}{4}, \dots$$

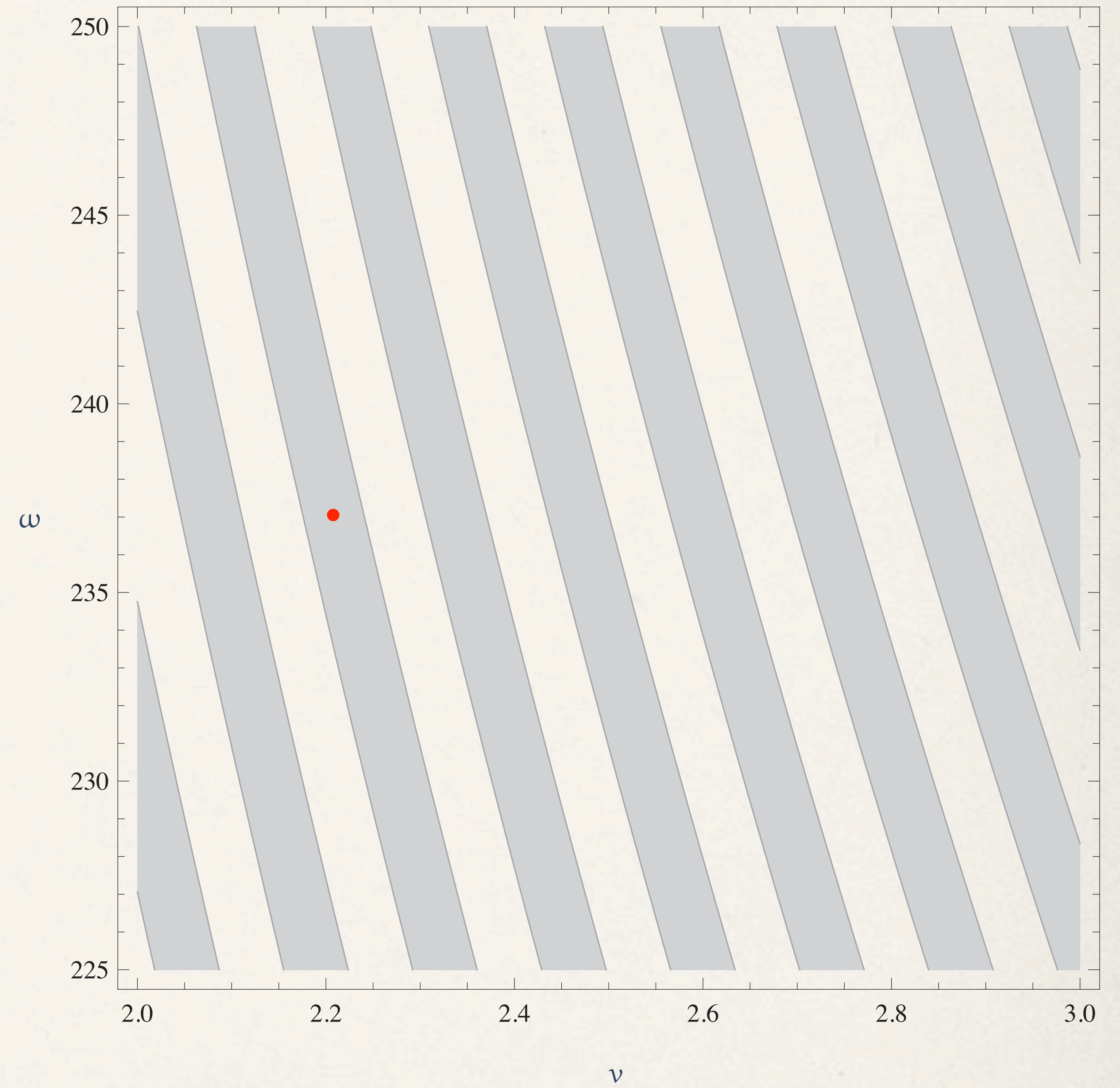


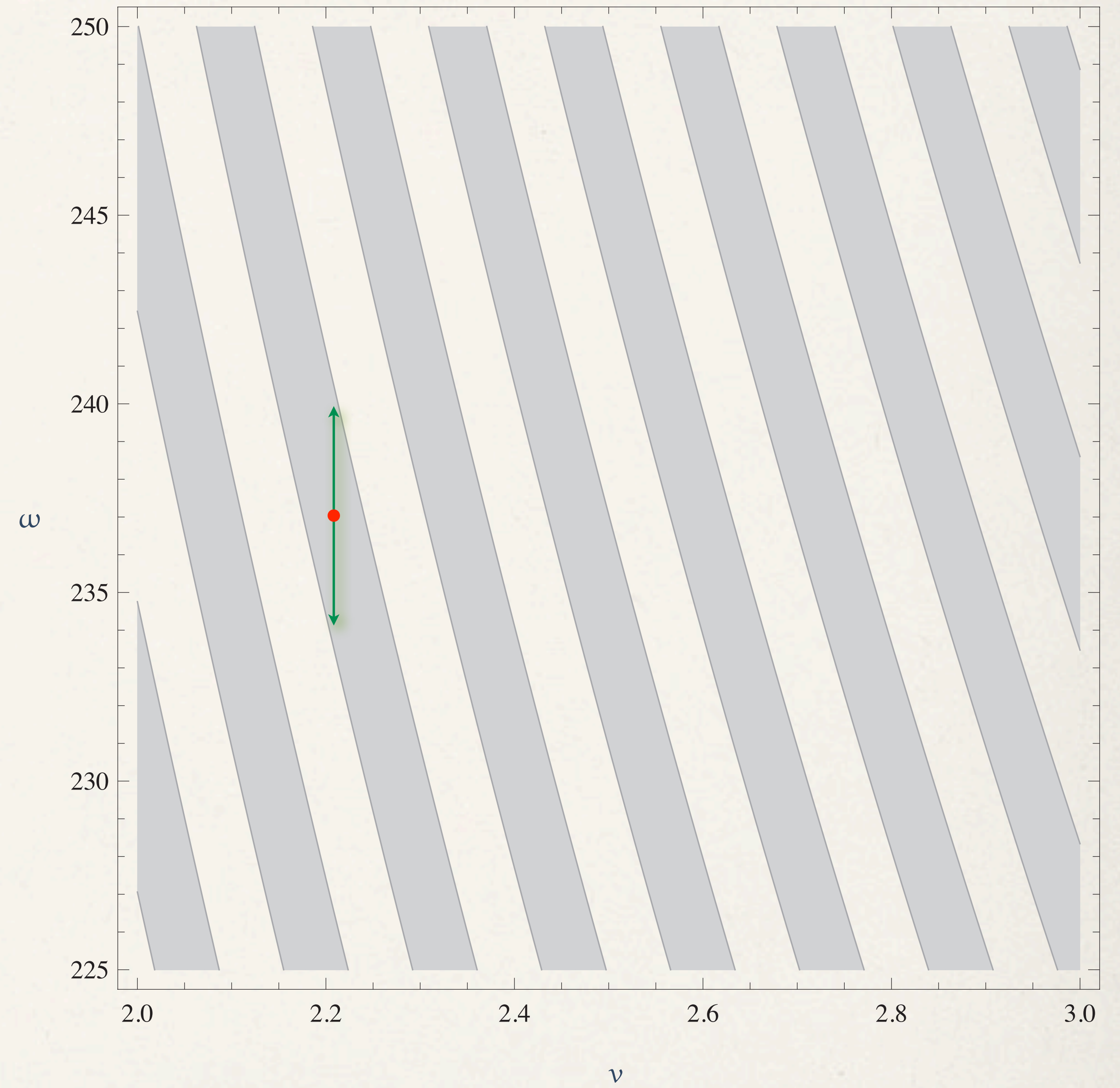


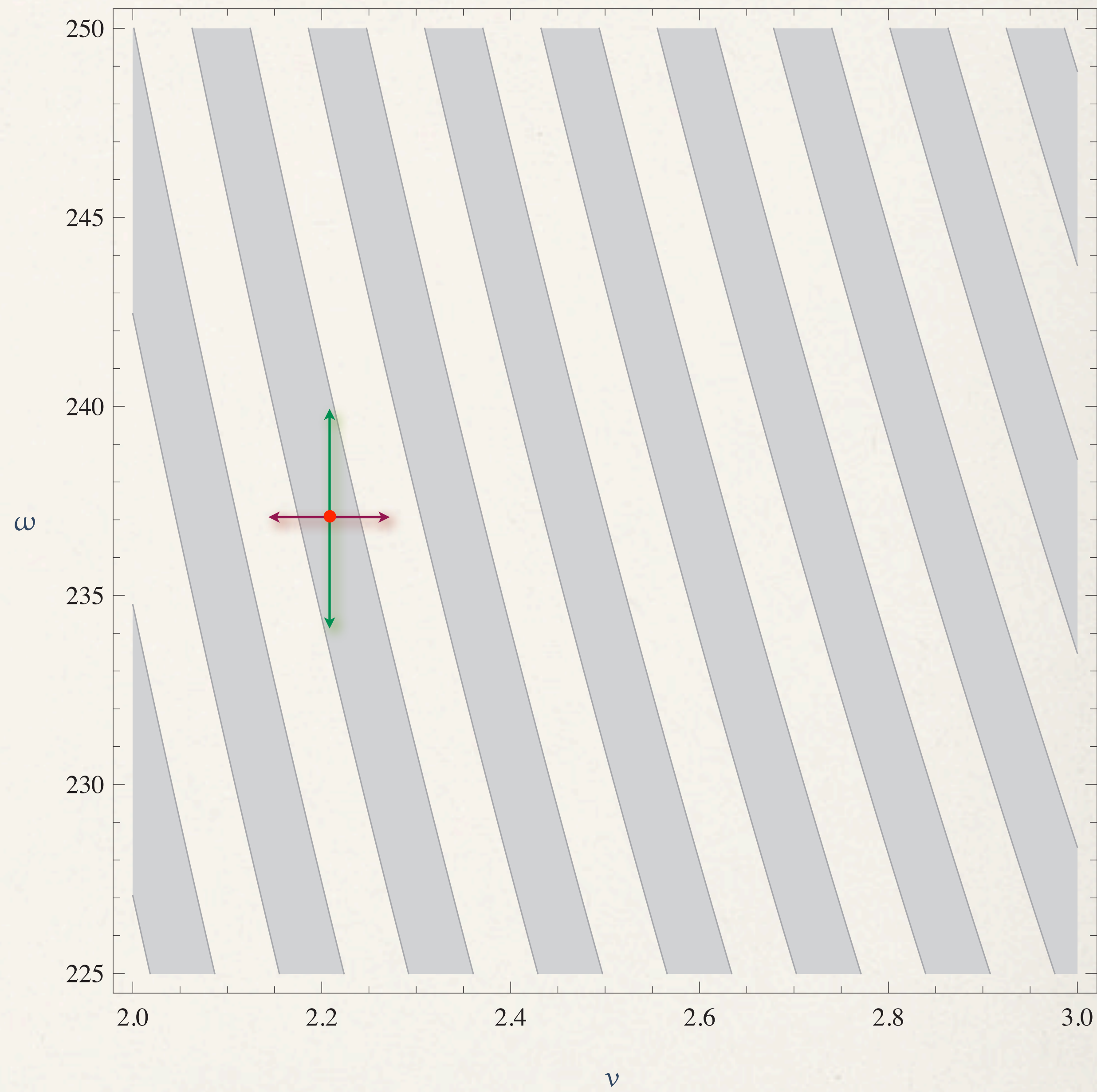
ω 





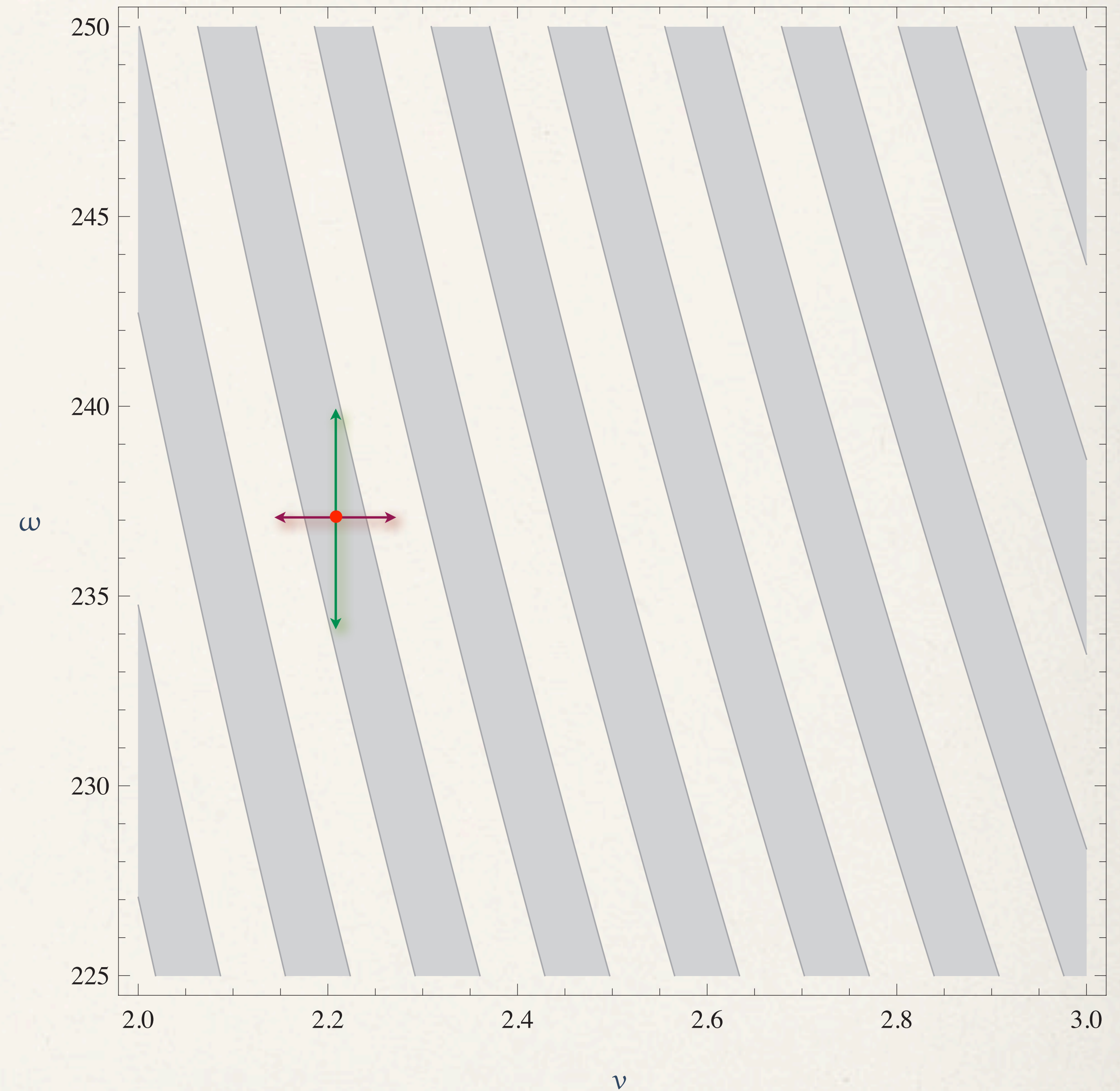






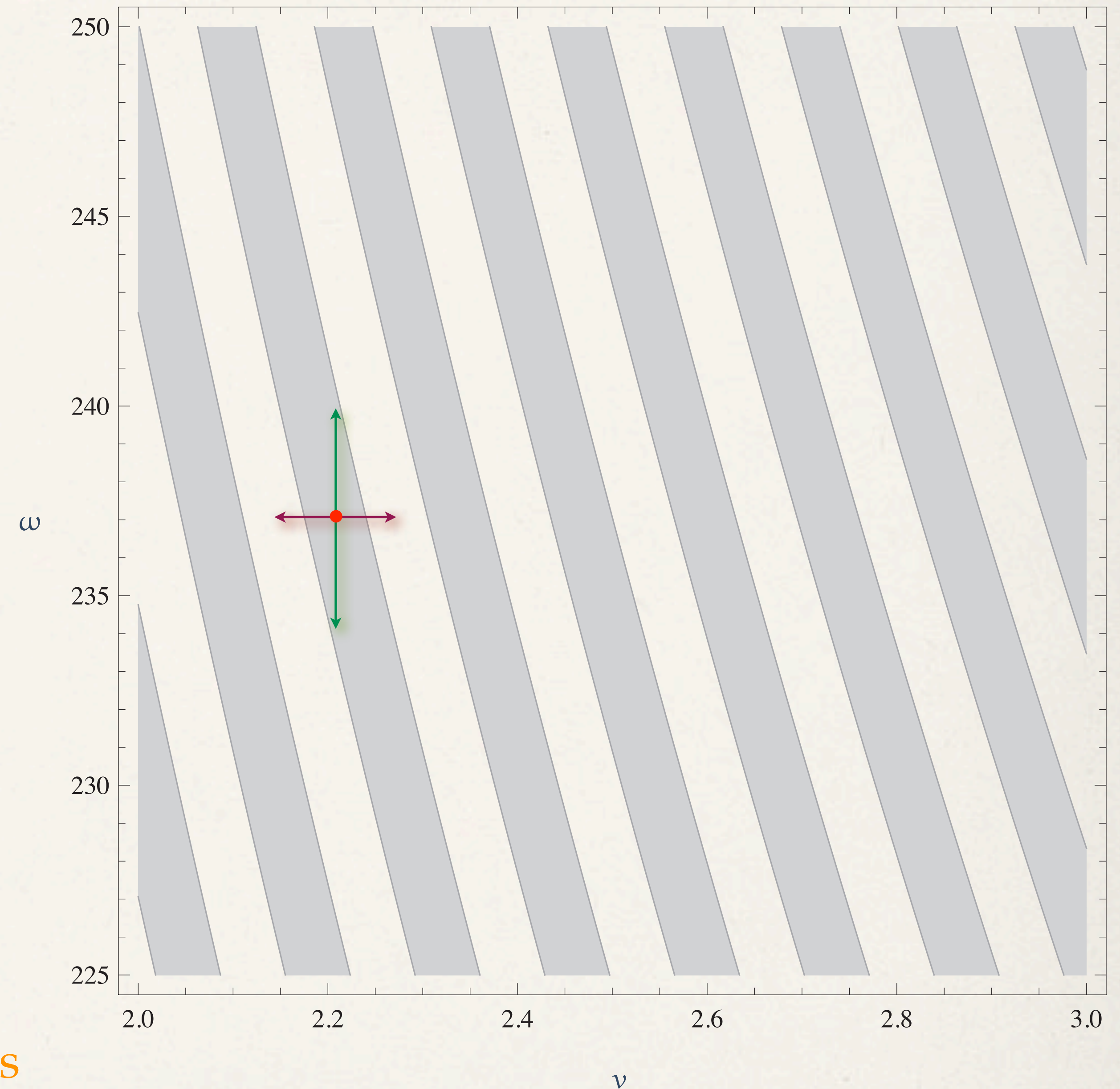
The outcome of the coin toss is:

- Insensitive to small changes in angular velocity ω .
- Very sensitive to small changes in velocity v .



The outcome of the coin toss is:

- Insensitive to small changes in angular velocity ω .
- Very sensitive to small changes in velocity v .



A small uncertainty in velocity implies that heads and tails occur in roughly equal proportion.