

From the plot of the nullclines, we have at the equilibrium point

$$\left(\frac{dn}{dv}\right)_{k=0} = -\frac{k_v}{k_n} > 0 > \left(\frac{dn}{dv}\right)_{g=0} = -\frac{g_v}{g_n} \quad (*)$$

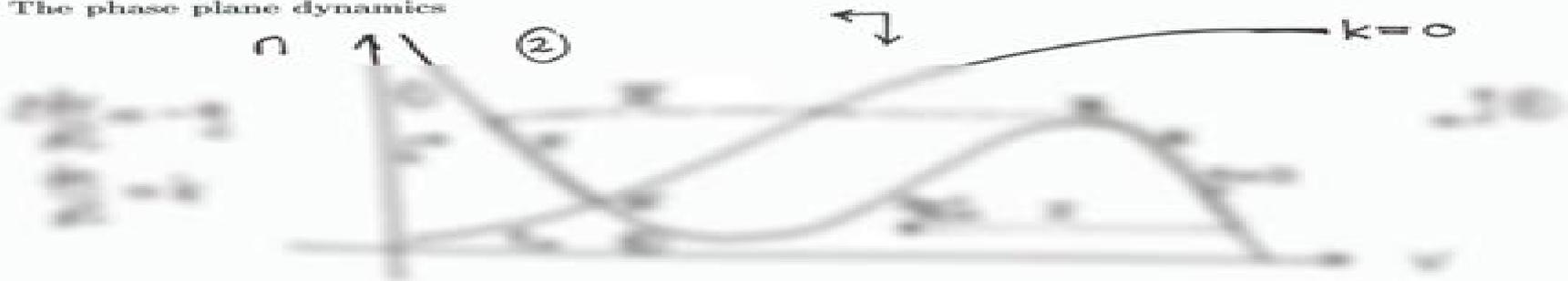
From above, $g_n, g_v > 0$ at the equilibrium point.

Also $k_n = -1/\tau_n^* < 0$. Hence $k_v > 0$ and $-g_v + k_n < 0$.

Multiply (*) by $(-k_n g_n) > 0$ gives $g_n k_v > g_v k_n$
 i.e. $-g_v k_n + g_n k_v > 0$

Hence we have that the stationary point is stable.

The phase plane dynamics



The nullclines, $k=0$ and $g=0$, are nearly horizontal and vertical respectively. The region of the phase plane where the trajectories are nearly horizontal and vertical can be readily determined.

- (1) Trajectory is nearly horizontal away from equilibrium
- (2) After reaching $g=0$ nullcline, trajectory moves vertically towards equilibrium, as it is vertical in this region of the phase plane. It almost parallel to the $g=0$ nullcline.

Mathematical Physiology

Klaus Schmitt



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