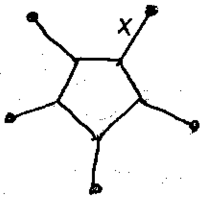
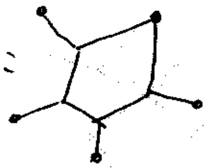
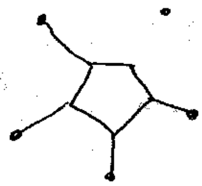
boundary spike again:

G: 

G^C: 

G^D: 

$$\Lambda(G) = \Lambda(G^C)\begin{bmatrix} \frac{x}{x+\Sigma} & \frac{\Lambda_{12}}{x+\Sigma} & \cdots & \frac{\Lambda_{1n}}{x+\Sigma} \\ & 1 & & 0 \\ & & 1 & \\ 0 & & & \ddots \\ & & & 1 \end{bmatrix}, \quad \Sigma = \Lambda_{12} + \cdots + \Lambda_{1n} = -\Lambda_{11}$$

(League of Opposite Signs)

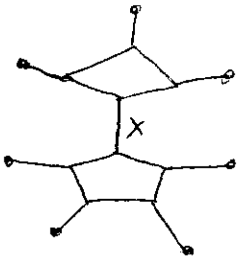
$$= \Lambda(G^C)\begin{bmatrix} \frac{x}{x+\Sigma} & & & 0 \\ & \frac{x}{x+\Sigma} & & \\ & & \ddots & \\ 0 & & & \frac{x}{x+\Sigma} \end{bmatrix} + \Lambda(G^C)\begin{bmatrix} 0 & \frac{\Lambda_{12}}{x+\Sigma} & \cdots & \frac{\Lambda_{1n}}{x+\Sigma} \\ & \frac{\Sigma}{x+\Sigma} & & 0 \\ & & \ddots & \\ 0 & & & \frac{\Sigma}{x+\Sigma} \end{bmatrix}$$

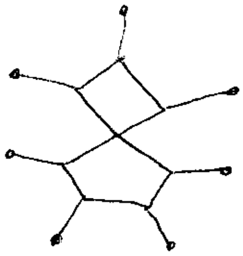
$$= \frac{x}{x+\Sigma}\Lambda(G^C) + \frac{\Sigma}{x+\Sigma}\Lambda(G^D)$$

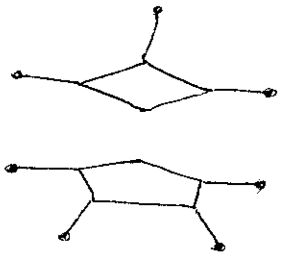
$$\Rightarrow \quad \Lambda(G) = p\,\Lambda(G^C) + q\,\Lambda(G^D), \quad p+q=1$$

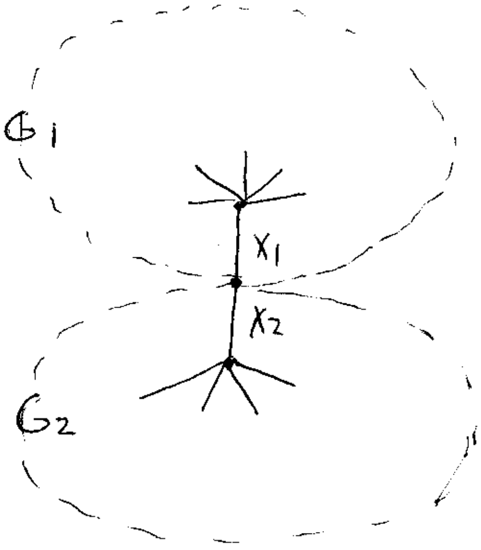
$$p = \frac{x}{x+\Sigma}$$

Single connection :

G : 

G^c : 

G^D : 



$\longrightarrow P_1 = \dfrac{x_1}{x_1+\Sigma(G_1)}$

$\Rightarrow$ want $\begin{cases} \dfrac{1}{x_1} + \dfrac{1}{x_2} = \dfrac{1}{x} \\ P_1 = P_2 \end{cases}$

$\longrightarrow P_2 = \dfrac{x_2}{x_2+\Sigma(G_2)}$

$$\Rightarrow \Lambda(G) = p\,\Lambda(G^c) + q\,\Lambda(G^D) \quad , p+q=1$$

$$\left(p = \frac{x\left(\Sigma(G_1)+\Sigma(G_2)\right)}{\Sigma(G_1)\Sigma(G_2)+x\left(\Sigma(G_1)+\Sigma(G_2)\right)} \right)$$

geometric view:

(response matrix space)