

$$V = V_G + V_H + I_{GH}$$

$$V_G = \mu_G + BV_G + D_G$$

$$V_H = \mu_H + BV_H + D_H$$

$$V = \mu_G + BV_G + D_G + \mu_H + BV_H + D_H + I_{GH}$$

□ Re-group:

$$V = \underbrace{\mu_G + \mu_H}_{\mu} + \underbrace{BV_G + BV_H}_{U} + \underbrace{D_G + D_H}_{D} + I_{GH}$$

$$= \mu + U + D + I_{GH}$$

□ More than 2 loci :  $A, B, C, \dots$

□ Decompose  $V = V_A + V_B + V_C + \dots + I_{ABC\dots}$

$$= \mu_A + BV_A + D_A + \mu_B + BV_B + D_B$$

$$+ \mu_C + BV_C + D_C + \dots + I_{ABC\dots}$$

$$= \mu_A + \mu_B + \mu_C + \dots + BV_A + BV_B + BV_C + \dots + D_A + D_B + D_C + \dots + I_{ABC\dots}$$

$$= \mu + U + D + I_{ABC\dots}$$