

Solving model: HH optimization

- Hame HH FOC:

$$q_0 u'(y_0 + q_0 b_0) = \frac{1}{2} [B(1 - \delta_1(L))u'(y_1(L) + q_1(L)b_1(L) - (1 - \delta_1(L))b_0) + B(1 - \delta_1(H))u'(y_1(H) + q_1(H)b_1(H) - (1 - \delta_1(H))b_0)$$
 $q_1(J) = B \frac{u'(c_2(J))}{u'(c_1(J))} \rightarrow C_1(J) = C_2(J)$

- Foreign HH FOC:

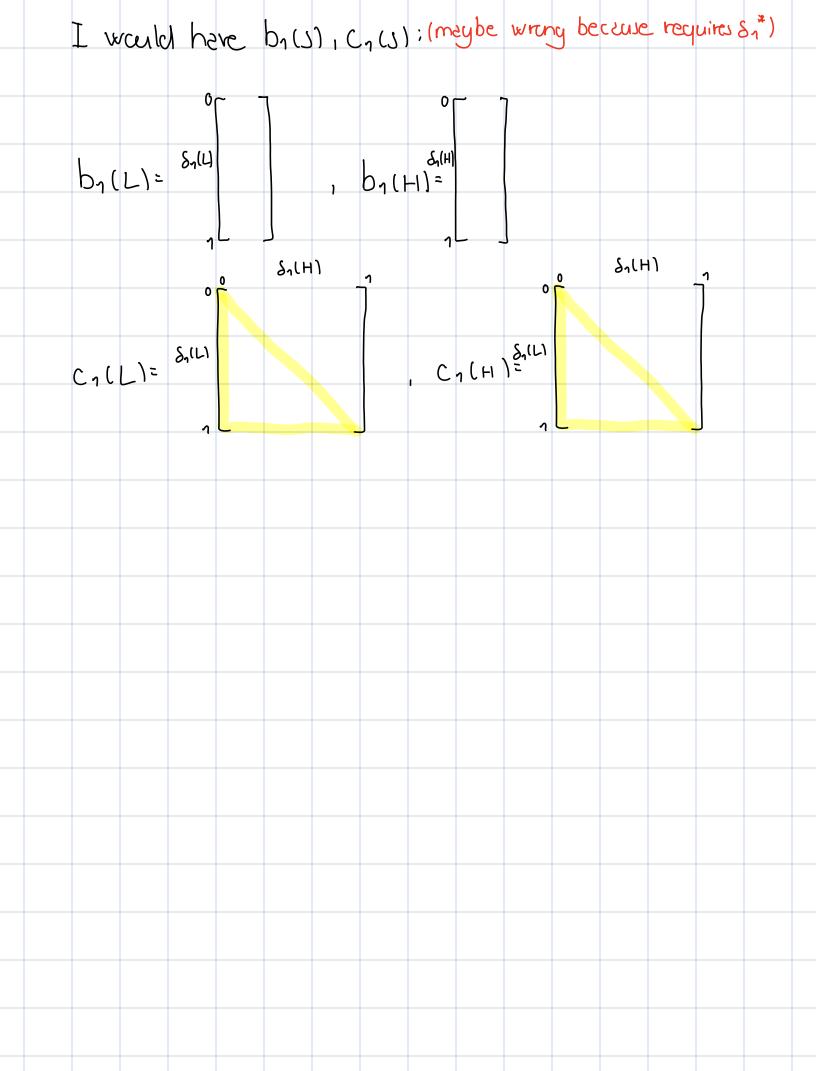
 $q_0 = B \left[\frac{1}{2} (1 - \delta_1(L)) + \frac{1}{2} (1 - \delta_1(H)) \right] = B \left[1 - \frac{\delta_1(L)}{2} - \frac{\delta_1(H)}{2} \right]$
 $q_1(J) = B \rightarrow q_1(L) = q_1(H) = B$

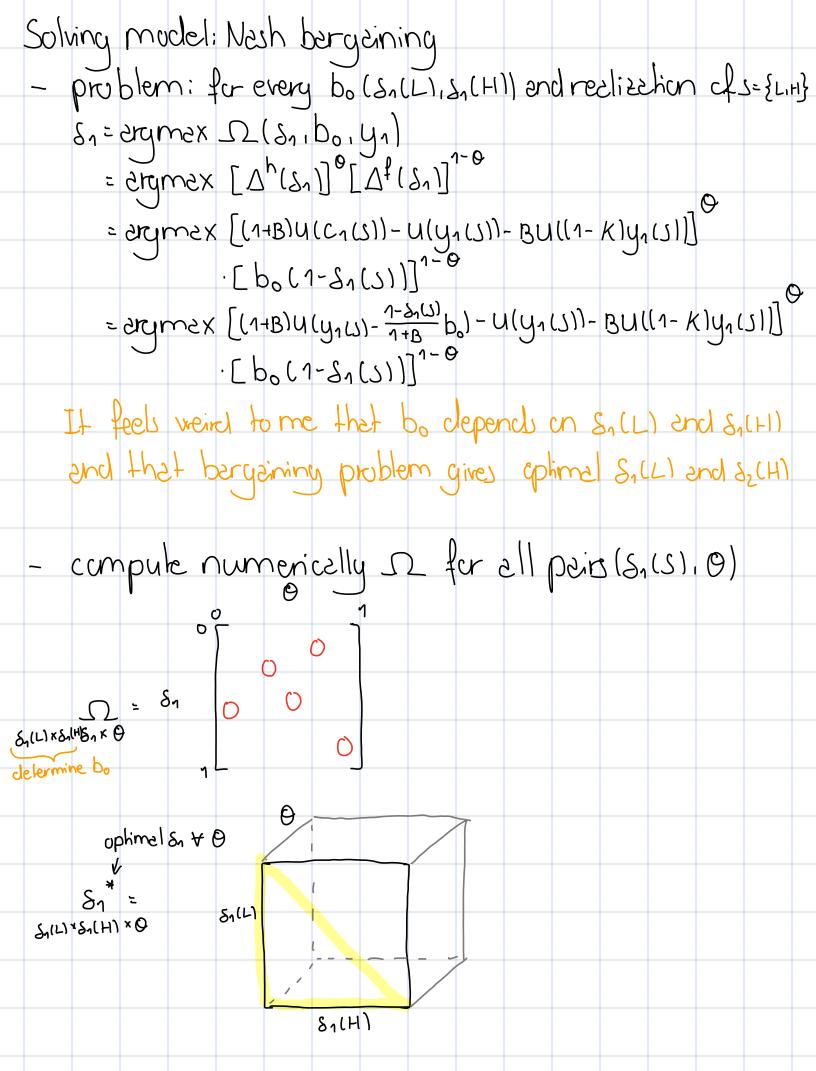
- Pin dum b_1 :

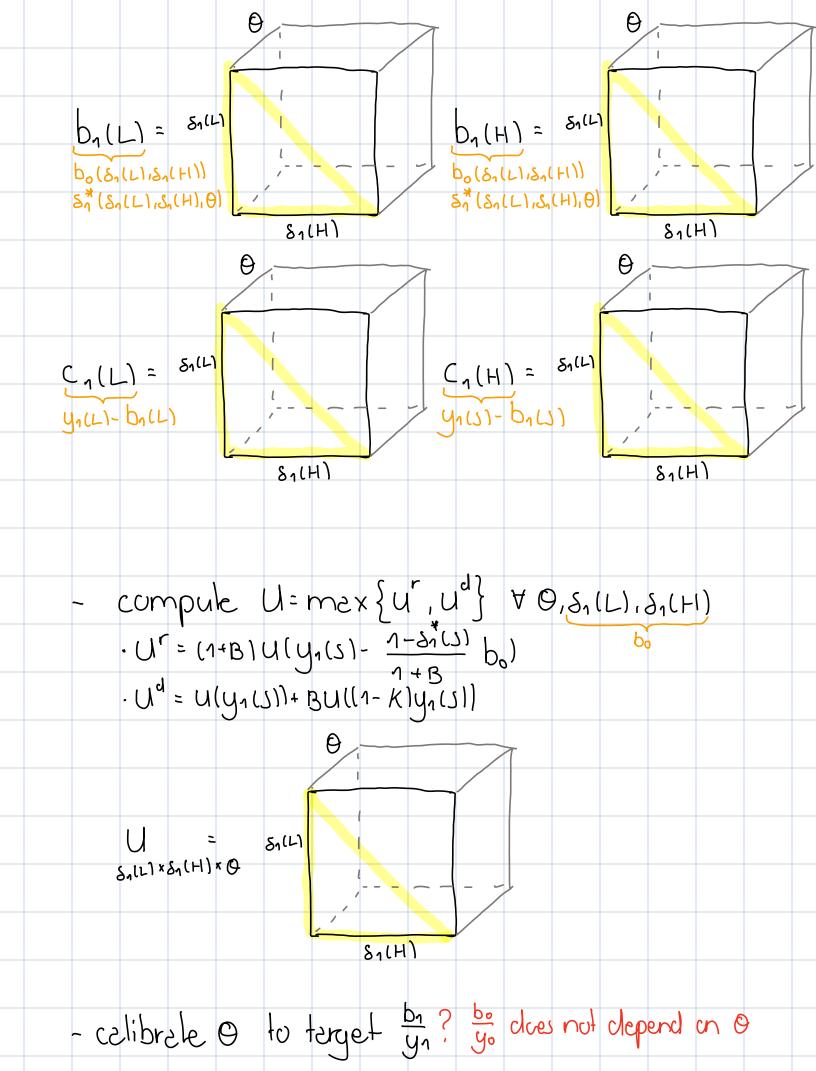
 $fram c_1(J) + (1 - \delta_1(J)) b_0 = y_1(J) + q_1(J) b_1(J) \otimes C_1(J) + b_1(J) = y_1(J) + q_1(J) b_1(J) - (1 - \delta_1(J)) b_0$
 $C_1(J) + b_1(J) = y_1(J) + q_1(J) b_1(J) - (1 - \delta_1(J)) b_0$
 $D_1(J) = y_1(J) - C_1(J)$
 $D_1(J) = y_1(J) - C_1(J)$
 $D_2(J) = y_1(J) - C_2(J)$

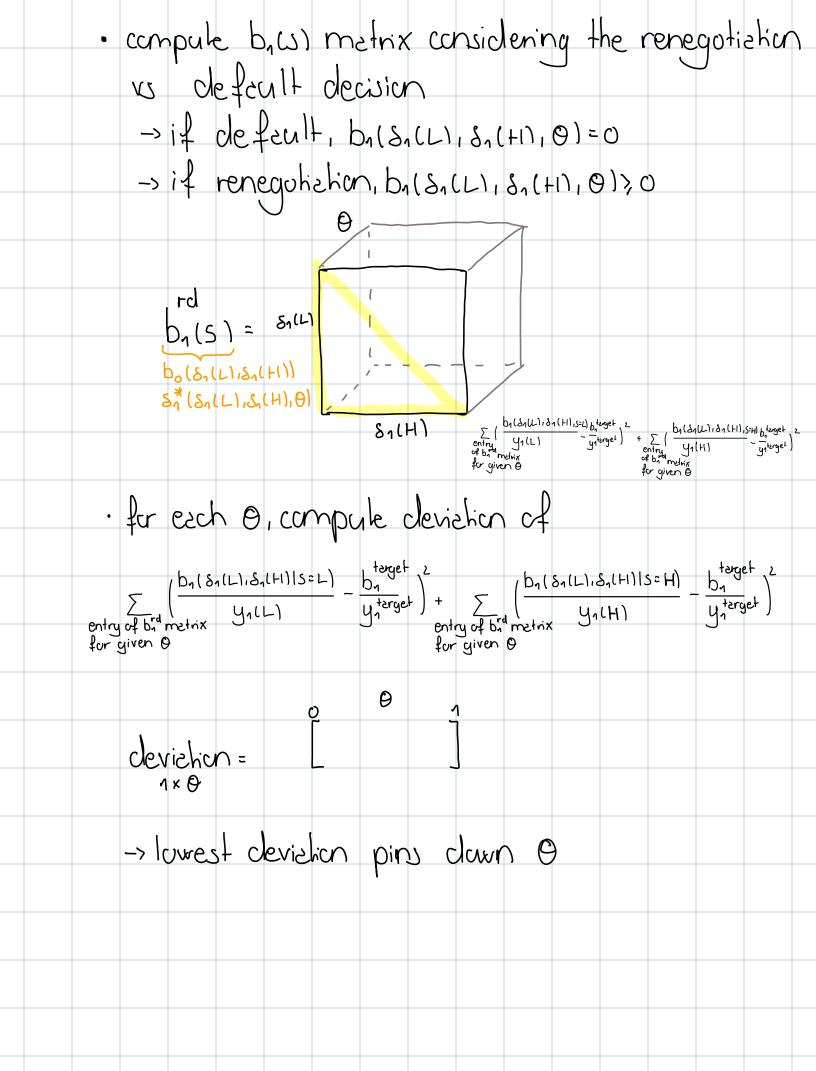
- from home HH FOC $D_2(J) = \frac{1 - \delta_2(J)}{1 + B} = \frac$

$$\begin{aligned} & \text{QoU'}(\text{Yo} + \text{QoDo}) = \text{B}[\Lambda - \frac{s_1(L)}{2} - \frac{s_1(H)}{2}] \text{ [Yo} + \text{B}(\Lambda - \frac{s_1(L)}{2} - \frac{s_1(H)}{2})] \text{ bo}] \\ & \frac{1}{2} \left[\text{B}(\Lambda - s_1(L)) \text{LU}'(\text{Y}_1(L) + \text{Q}_1(L)) \text{D}_1(L) + (1 - s_1(L)) \text{bo}] \right] \\ & + \text{B}(\Lambda - s_1(H)) \text{LU}'(\text{Y}_1(H) + \text{Q}_1(H)) \text{D}_1(H) + (1 - s_1(H)) \text{bo}] \right] \\ & = \frac{1}{2} \left\{ \text{B}(\Lambda - s_1(L)) \text{LU}_1(H) + \text{B} \frac{\Lambda - s_1(L)}{1 + \text{B}} \frac{s_1(H)}{1 + \text{B$$









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