$$P(IMC, phys, B, C, H, A_p, A) = P(IMC) \cdot P(phys) \cdot P(B \mid IMC) \cdot P(C \mid IMC, phys) \cdot P(H \mid phys) \cdot P(A_p \mid B, H, phys) \cdot P(A \mid C, A_p, phys)$$

$$L = N(\alpha_{IMC}, \sigma^2_{IMC}) \cdot N(\alpha_{phys}, \sigma^2_{phys}) \cdot N(\alpha_B + \alpha_{B IMC} IMC, \sigma^2_{IMC}) \cdot N(\alpha_C + \alpha_{C IMC} IMC + \alpha_{C phys} phys, \sigma^2_{CP}) N(\alpha_H + \alpha_{Hp} phys, \sigma^2_{Hp}) \cdot N(\alpha_{Ap} + \alpha_{Ap B} \cdot B + \alpha_{Ap H} H + \alpha_{Ap phy} \cdot phys, \sigma^2_{AB Hp}) \cdot N(\alpha_A + \alpha_{A C} C + \alpha_{A A_p} A_p + \alpha_{A_p} phys, \sigma^2_{A C A_p p})$$

$$V = \prod_{i=1}^{h} L(\dots)$$