HWI PHY950

1. (a) (b) S = (GeV, p, (0 | x, B) = 1 e - (0, -6)/2V1 (o = x+B) expected mean of = 4 TI + 2 = 6 variance $V_1 = (0.2 \, \overline{0_1})^2 = (1.2)^2 = 1.44$ (2) energy S = 2 GeV, $P_2(\sigma | \alpha, \beta) = \frac{1}{\sqrt{272}\sqrt{2}} e^{-(\sqrt{2}-7.66)^2/2} \sqrt{2}$ (tz= [2x+13) expected mean $\overline{D}_2 = 4\overline{D}_2 + 2 = 7.66$ variance V2 = (0.15 02) = 1.15 = 1.32 $\exists \text{ energy } S = J \text{ GeV}, \ \ \beta_3 \notin \sigma(x,\beta) = \frac{1}{\sqrt{273}\sqrt{3}} e^{-(\sqrt{5}_3 - \sqrt{5}_3)^2/2\sqrt{3}}$ expected mean $\overline{t_3} = 4\overline{t_3} + 2 = 10.94$ ($\overline{t_3} = \overline{t_3} + \overline{t_3}$)

Variance $V_3 = (0.1 \overline{t_3})^2 = 0.20$ where J = Q+B, J = IS 4+B, J = IS 4+B → Lij = E [] Nm → Em → Em 7 Oi, Oj ∈ {0, B} $= \begin{bmatrix} \frac{N_1}{V_1} + 2 \frac{N_2}{V_2} + 5 \frac{N_2}{V_2} \\ \frac{N_1}{V_1} + 5 \frac{N_2}{V_2} + 5 \frac{N_2}{V_2} \\ \frac{N_1}{V_1} + 5 \frac{N_2}{V_2} + 5 \frac{N_2}{V_2} \\ \frac{N_1}{V_1} + \frac{N_2}{V_2} + \frac{N_2}{V_2} \end{bmatrix}$ VI Pin] Z (IT) in