

$$V_{b} = \kappa_{e} \frac{170_{A}}{5}$$

$$Y_{p} = \kappa_{e} \frac{50_{A}}{5}$$

$$L_{bp} = Q_{o} \left(\kappa_{e} \frac{170_{A}}{5} - \kappa_{e} \frac{50_{A}}{5} \right) = \kappa_{e} Q_{A}Q_{o} \frac{34-25\sqrt{2}}{10}$$

$$= 18297 J$$

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$$\frac{1}{2} m_0 \sigma_0^2 + O_0 V(D) = \frac{1}{2} m_0 \sigma_p^2 + O_0 V(P)$$

$$N_{D=0} \rightarrow \sigma_p^2 = \frac{2}{m_0} o J V(D) - V(P) J - P = 1008 m/s$$

